



Epistemic Clientelism in Intimate Relationships

The Kahl Model of Epistemic Dissonance (KMED) and
the Foundations of Epistemic Psychology

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Lex et Ratio Ltd provides research, advisory, and strategic consulting in governance reform, fiduciary accountability, and epistemic ethics, integrating legal analysis, institutional theory, and practical reform strategies across public, corporate, and academic institutions.

Abstract

This paper introduces the *Kahl Model of Epistemic Dissonance* (KMED) — the first formal mathematical model of epistemic clientelism in intimacy. It identifies the mechanisms that underlie social life — recognition, silencing, dissonance, and clientelism — and shows how these are first rehearsed in families and partnerships, where autonomy and dependence are forged.

KMED is specified through equations and implemented in Python, with simulations tracking how repeated micro-dissonance events shape long-term trajectories of epistemic autonomy, dissonance tolerance, and dependence. The results demonstrate how fiduciary scaffolds transform dissonance into resilience, while clientelist suppression corrodes agency and entrenches subordination. By making these dynamics explicit and testable, KMED provides a proof-of-concept for a computational epistemic psychology.

The contribution spans three domains. For epistemic psychology, the paper reframes dissonance as an epistemic event that can produce either submission or resilience. For psychiatry, it offers a lens on trauma, gaslighting, and attachment, showing how rupture and repair in therapeutic alliances mirror fiduciary safeguarding of agency. For philosophy and governance, it extends fiduciary–epistemic theory into private life, reframing love as trusteeship grounded in duties of care, loyalty, candour, and a Razian account of authority as service.

Finally, the paper advances an *Intimate Epistemic Oath* as a normative scaffold for restructuring dependence into dignified, pluralistic agency. Intimacy thus emerges as the proving ground of epistemic psychology and the first site where the conditions of freedom, recognition, and resilience in social life are secured or betrayed.

Keywords

epistemic clientelism, intimate relationships, epistemic psychology, fiduciary responsibility, epistemic autonomy, recognition, gaslighting, testimonial injustice, mathematical modelling, computational simulation, Kahl Model of Epistemic Dissonance (KMED)

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Table of Contents

1. Introduction	4
1.1 Opening: Intimacy as the most formative site of epistemic life.....	4
1.2 Problem statement: Conditionality of love, belonging, and protection	5
1.3 Thesis: Intimate life as both clientelist and transformative	5
1.4 Contribution	6
1.5 Scope and limits	8
1.6 Roadmap	8
2. Conceptual Foundations.....	8
2.1 Defining epistemic clientelism	8
2.2 Trust, authority, and clientelism.....	9
2.3 Conditional logic of intimacy	10
2.4 Bridge: Why psychology and psychiatry must engage intimacy as an epistemic site	11
3. Psychological and Psychiatric Mechanisms	12
3.1 Conformity, obedience, and dissonance	12
3.2 Attachment and epistemic dependence	13
3.3 Parental authoritarianism and epistemic dispositions	13
3.4 Intimacy, trauma, and psychiatric stakes	14
4. Cultural Variations in Intimate Epistemic Authority.....	15
4.1 Proverbs and cultural scripts.....	15
4.2 Autonomy and relatedness across cultures	16
4.3 Patriarchy and gendered subordination	17
4.4 Hybridities in globalised families	18
5. Authoritarianism and Domestic Epistemic Clientelism	19
5.1 Authoritarian predispositions: fear and conformity.....	19
5.2 Domestic order as epistemic currency	20
5.3 Testimonial injustice and silencing	21
5.4 Families as microcosms of regimes	22
6. Conflict Dynamics in Partnerships.....	23
6.1 Epistemic vs relational conflict.....	23
6.2 Rhetoric of conflict	24
6.3 Gaslighting as epistemic coercion.....	25
6.4 Safeguarding epistemic conflict	26
7. Fiduciary–Epistemic Framework for Intimacy	26
7.1 From fiduciary law to intimacy	26
7.2 Duties of care, loyalty, and candour	27
7.3 Love as fiduciary responsibility	28
7.4 The Intimate Epistemic Oath.....	29
7.5 Psychiatric resonance: therapeutic alliance as fiduciary scaffold	30

8. Toward Epistemic Agency in Intimate Life	31
8.1 Cultivating agency: dissonance as resilience	31
8.2 Ecological design of households: pluralism as safeguard	33
8.3 Resistance and nonconformity: courage in dissent.....	33
8.4 Post-clientelist intimacy: fiduciary scaffolds in practice	34
9. Conclusion.....	35
9.1 Synthesis: Intimacy as crucible of epistemic psychology	35
9.2 Normative claim: Love entails fiduciary responsibility for epistemic agency.....	36
9.3 Research agenda: Developmental psychology, psychiatry, and family law	37
9.4 Broader implications: Intimacy and epistemic psychology as a discipline.....	37
Bibliography	39
 Appendix A: The Kahl Model of Epistemic Dissonance (KMED) — Mathematical and Computational Framework	 43
A.1 Conceptual Overview	43
A.2 Mathematical Model	43
A.3 Python Implementation	44
A.3.1 Simulation 1 — Fiduciary scaffold vs clientelist suppression (single agent).....	45
A.3.2 Simulation 2 — Regime switching (rupture → repair)	49
A.3.3 Simulation 3 — Intermittent clientelism vs stable fiduciary	53
A.3.4 Simulation 4 — Gaslighting (oscillating recognition and suppression)	58
A.3.5 Simulation 5 — Dissonance Training (therapeutic scaffolding).....	62
A.4 Code Listing	66
A.4.1 Simulation 1 — Fiduciary scaffold vs clientelist suppression (single agent).....	66
A.4.2 Simulation 2 — Regime Switching (Rupture → Repair).....	68
A.4.3 Simulation 3 — Intermittent clientelism vs stable fiduciary	70
A.4.4 Simulation 4 — Gaslighting (oscillating recognition and suppression)	72
A.4.5 Simulation 5 — Dissonance Training (therapeutic scaffolding).....	74
A.5 Notes on Licensing and Reuse	77
Author Contact.....	77
Cite this work	77
Edition History	77

1. Introduction

1.1 Opening: Intimacy as the most formative site of epistemic life

This paper begins from a simple but far-reaching claim: the epistemic and psychological mechanisms that underlie social life — recognition, silencing, dissonance, and clientelism — are first rehearsed in intimacy.

When a child lowers their eyes, silencing a question to avoid parental anger, the lesson is not only relational but epistemic. It teaches when curiosity is safe and when it is dangerous, when truth may be spoken and when silence must be purchased at the cost of self. In another home, a partner hears their perception dismissed with the words ‘you’re imagining things’. What is undermined in that moment is not merely affection but reality itself: the fragile sense that one’s own grasp of the world can be trusted. Such moments, common though often unremarked, shape how we learn to know, to trust, and to dissent.

We usually think of epistemic life as something that unfolds in public institutions: the university, the court, the parliament, the press. These certainly matter, but they are not where epistemic life begins. The first epistemic encounters occur in intimacy: the child testing whether their story will be believed; the spouse weighing whether disagreement will bring conflict or recognition. In these spaces, what counts as knowledge is not fixed by evidence alone but by the fragile currency of acknowledgement, by the presence or absence of another’s affirmation.

To know, in intimacy, is always to know in relation. One’s perception may be granted authority or dismissed as error. Trust is extended or withheld, dissent permitted or punished. Each act of recognition or rejection writes itself into the subject’s epistemic formation. Before one ever confronts peer review or political authority, one has already learned, at the kitchen table or in the bedroom, whether truth is safe, whether dissent is survivable, whether one’s own perception is allowed to stand.

Intimacy is therefore a crucible of epistemic dispositions. It is here that people first acquire the habits of deference or courage, silence or speech, conformity or resistance. These patterns, inscribed in the most private exchanges, later resonate in classrooms, workplaces, and public life. As I have argued elsewhere, epistemic clientelism is the conditional exchange of autonomy for goods such as protection, recognition, or belonging (Kahl, 2025d). Nowhere is this exchange more existential than in the family or the partnership, where the very possibility of love and security may depend upon epistemic submission.

This paper situates itself within epistemic psychology: a discipline concerned with the conditions of autonomy and dependence, recognition and silencing, dissonance and resilience. If intimacy is the ground where epistemic life takes root, then it must also be where epistemic psychology and psychiatry find their most revealing crucible. The pathologies of love—gaslighting, silencing, dismissal—are simultaneously epistemic pathologies. The struggles of attachment and recognition are not only psychological but epistemological. And the resilience born of dissonance in these settings may reveal, more clearly than anywhere else, the possibility of an epistemic life that dignifies dependence without reducing it to subjugation.

To make these dynamics explicit, the paper introduces the Kahl Model of Epistemic Dissonance (KMED): a formal framework that captures how autonomy, recognition, and dependence evolve under fiduciary versus clientelist conditions. By combining mathematical equations with simulation, KMED demonstrates that these mechanisms are not only conceptual but computationally tractable — showing how the micro-encounters of intimacy can be modelled as the foundation of broader social life.

1.2 Problem statement: Conditionality of love, belonging, and protection

Intimacy promises unconditionality. We long to believe that parental love is steadfast, that spousal devotion is unwavering, that belonging within a family or partnership is secure. Yet in practice, these bonds often carry conditions. Love is offered, but sometimes only on terms. Belonging is granted, but contingent upon compliance. Security is maintained, but only if one does not question too much, contradict too openly, or insist too firmly upon one's own perception of the world.

The problem is not merely emotional; it is epistemic. Autonomy is bartered away in exchange for relational safety. A child learns that to be loved, one must echo the parent's account rather than one's own experience. A partner discovers that disagreement threatens peace, and so withholds dissent to preserve harmony. In such moments, epistemic agency is surrendered, not because the other is more knowledgeable or because evidence has shifted the balance of reasons, but because recognition, affection, or even survival is at stake.

This conditionality is not always crude or overt. At times it appears in gestures of compromise, where one partner chooses silence not out of fear but in order to preserve the fragile balance of a relationship. There is nuance in the ways such conditionality manifests: it can emerge as a tacit economy of mutual accommodation, yet slide insidiously into patterns of subordination when one party's autonomy is habitually compromised. What distinguishes ordinary compromise from clientelism is precisely the structure of repetition and asymmetry: when deference becomes expected rather than occasional, when peace requires not negotiation but surrender.

This is the logic of epistemic clientelism. Clientelism arises whenever epistemic autonomy is exchanged for goods external to truth—recognition, protection, belonging (Kahl, 2025d). In intimate life, this exchange is more profound than in academic or political settings, for the goods at stake are existential. To be dismissed by a journal editor is frustrating; to be dismissed by a parent or spouse is devastating, for it undermines not only credibility but also the foundations of identity and trust.

From this conditionality emerge the pathologies of intimate epistemic life. Gaslighting redefines reality by systematically disqualifying one partner's perception. Testimonial injustice denies the credibility of a child's or spouse's voice. Silencing imposes peace at the expense of truth. Each of these practices erodes epistemic agency and habituates dependence. They do not simply distort individual relationships; they reproduce patterns of subordination that echo across social and institutional life, extending the grammar of obedience learned in the home into the wider architectures of power.

The implications extend beyond philosophy into psychology and psychiatry. Conditionality of recognition is not only a matter of epistemic theory but also of attachment, resilience, and trauma. It influences the ways in which dissonance is borne or disavowed, how working alliances in therapy are sustained or ruptured, and how individuals navigate the balance between autonomy and dependence across the lifespan. To diagnose the problem of epistemic clientelism in intimacy is therefore to identify not just a conceptual distortion, but a formative psychological pattern and a psychiatric reality: the terrain upon which vulnerability, resilience, and pathology are all negotiated.

1.3 Thesis: Intimate life as both clientelist and transformative

The argument of this paper is that intimacy most clearly exposes the epistemic and psychological mechanisms that underlie social life — recognition, silencing, dissonance, and clientelism — yet it also holds the seeds of their transformation.

Step 1: Diagnosis – Intimate life exemplifies epistemic clientelism; dynamics mirror wider institutional and political structures.

The family and the partnership are places where epistemic autonomy is most easily traded away, because the goods at stake—love, belonging, protection—are existential. To preserve security, children and partners may defer to another's view even when it contradicts their own perception. This is where the wider patterns of silence, obedience, and loyalty that characterise institutions and regimes first take root.

Step 2: Normative possibility – Clientelism is not inevitable; it can be reshaped into fiduciary–epistemic partnerships.

Yet intimacy is not doomed to reproduce subordination. Because dependence is inescapable, it can also be reimagined. Intimate relationships can become fiduciary–epistemic partnerships, in which asymmetries of authority are bounded by duties of care and loyalty. A parent, for example, may resist the impulse to override a child's interpretation and instead affirm it as worthy of consideration, even if imperfect. In such gestures, epistemic autonomy is not sacrificed but strengthened, and dependence becomes a context for growth rather than suppression.

Step 3: Reframing love – Love as fiduciary trusteeship, preserving rather than capturing the other's epistemic agency.

This requires a reframing of love itself. Love can be understood as trusteeship: the holding of another's epistemic agency in trust. To love is to care for the other's capacity to perceive and to judge, rather than to condition affection on conformity. Raz's (1986) service conception of authority clarifies the normative structure: authority is legitimate only when it helps others better conform to their own reasons. Applied to intimacy, this means that a partner's authority is justified not when it coerces compliance, but when it safeguards the other's agency. The 'Intimate Epistemic Oath' foreshadowed here would commit partners to specific duties, such as never making recognition contingent upon agreement. Such a proposal may seem alien, importing fiduciary vocabulary into the most personal of domains. But it is precisely because intimacy is so vulnerable to epistemic abuse that the language of responsibility is needed. Love is never without imperfection or negotiation, yet the promise of trusteeship is to ensure that dependence remains dignified, never weaponised.

Step 4: Formalisation – Modelling epistemic dynamics through the Kahl Model of Epistemic Dissonance (KMED).

To move beyond metaphor, this paper also introduces the *Kahl Model of Epistemic Dissonance* (KMED), a formal representation of how autonomy, tolerance, and dependence evolve under fiduciary versus clientelist conditions. Expressed through mathematical equations and implemented in Python simulations, KMED makes the dynamics of intimacy explicit and testable. The model demonstrates how micro-dissonance events accumulate into long-term dispositions — producing either resilience under fiduciary scaffolds or fragility under clientelist suppression. By providing the first computational framework for epistemic clientelism in intimate relationships, KMED establishes a new methodological frontier for epistemic psychology.

1.4 Contribution

The contribution of this paper lies across four domains: epistemic psychology, psychiatry, philosophy of governance, and methodology.

To **epistemic psychology**, the paper introduces intimacy as a test case for examining how autonomy and dependence are co-constituted. Epistemic psychology, as I define it, is concerned with the conditions under which recognition, dissonance, and authority shape the formation of agency. Cognitive dissonance, often described as discomfort or inconsistency, is reinterpreted here as an epistemic event: a rupture that reveals when agency collapses into submission or strengthens through recognition. Consider the child who hesitates before contradicting a parent: whether the dissent is met with affirmation or silence becomes formative for epistemic courage. Authority and recognition thus emerge as the grammar of intimate epistemic life, determining whether dissonance is processed as resilience or as disabling fear. By situating intimacy at the centre of epistemic psychology, the paper highlights that knowledge is not merely individual cognition but relational exchange, lived through bonds of trust and vulnerability.

To **psychiatry**, the paper offers a complementary lens on relational injuries and repair. Gaslighting, silencing, and trauma can be understood not only as emotional harms but as violations of epistemic agency. Attachment disorders appear, in this frame, as failures of recognition that undermine the conditions for trust in one's own perception. Consider the therapeutic alliance: when a therapist misattunes to a patient, dismissing their account, a rupture occurs; when the therapist acknowledges the error and validates the patient's perspective, repair takes place. This sequence mirrors the fiduciary logic of safeguarding the other's agency, even if psychiatry does not name it in those terms. The epistemic dimension thus enriches psychiatric understandings of rupture and repair, showing how therapeutic trust can be read as an implicit form of fiduciary scaffolding.

To **philosophy and governance**, the paper extends fiduciary–epistemic theory beyond institutions into private life. Fiduciary duties have long been invoked to regulate directors, trustees, and professionals. Here, the same framework is applied to intimacy, where the asymmetries of dependence are no less acute. Love, in this account, entails responsibility: the duty to preserve the other's epistemic agency rather than subordinating it. This does not deny the affective, existential, or cultural dimensions of love, but insists that its epistemic dimension must also be taken seriously. By framing love as trusteeship, the paper broadens the scope of fiduciary ethics and situates epistemic responsibility as a general architecture spanning both public and private life.

To methodology, the paper introduces the *Kahl Model of Epistemic Dissonance* (KMED) as a formalisation of the dynamics theorised here. KMED translates the grammar of recognition, dissonance, and dependence into mathematical equations, allowing simulations of how epistemic autonomy either strengthens under fiduciary scaffolds or collapses under clientelist suppression. This is not merely illustrative but proof of concept: it shows that the micro-mechanisms of intimacy can be modelled, tested, and visualised, opening the way to future agent-based simulations of families, classrooms, or political groups.

Taken together, these contributions reposition intimacy as a domain that matters across disciplines. For epistemic psychology, it serves as a proving ground for theories of autonomy, dependence, and dissonance. For psychiatry, it provides an epistemic vocabulary for understanding rupture, trauma, and repair. For philosophy and governance, it pushes fiduciary theory into new terrain, revealing intimacy as a frontier of responsibility. And for methodology, it demonstrates that epistemic clientelism can be computationally modelled, marking a step toward a formal science of epistemic psychology. The novelty of the paper thus lies not only in affirming that intimacy is epistemically significant, but in systematically theorising and formalising it as the site where epistemic psychology, psychiatry, fiduciary ethics, and computational modelling converge.

1.5 Scope and limits

This paper is a conceptual and normative inquiry into epistemic clientelism in intimate relationships. It integrates insights from psychology, psychiatry, and fiduciary theory, drawing on existing empirical studies of conformity, obedience, attachment, and authoritarian predispositions, but it does not present new data.

The analysis proceeds in two registers. First, it diagnoses how epistemic autonomy is made conditional in family life and partnerships, producing patterns of dependence, silencing, and abuse. Second, it advances a normative framework in which intimate relationships are reimagined as fiduciary–epistemic partnerships, bounded by duties of care and loyalty.

Certain boundaries must be noted. The paper does not provide clinical protocols or therapeutic prescriptions, nor does it attempt a comprehensive cross-cultural ethnography. Its aim is more modest: to illuminate the epistemic dimension of intimacy and to offer a scaffold for future interdisciplinary research.

1.6 Roadmap

The paper unfolds in nine chapters. Chapter 2 establishes the conceptual foundations by defining epistemic clientelism, distinguishing it from trust and authority, and outlining the conditional logic of intimacy. Chapter 3 analyses the psychological and psychiatric mechanisms that sustain or disrupt epistemic dependence, including conformity, obedience, dissonance, attachment, and trauma. Chapters 4 and 5 broaden the scope, examining cultural scripts, patriarchal norms, and authoritarian predispositions that embed epistemic clientelism within families and domestic life. Chapter 6 turns to conflict dynamics in partnerships, contrasting epistemic and relational conflict, and analysing gaslighting as a form of coercive epistemic control. Chapter 7 advances the fiduciary–epistemic framework for intimacy, proposing duties of care and loyalty and foreshadowing an Intimate Epistemic Oath. Chapter 8 explores the cultivation of epistemic agency within households, emphasising pluralism, resistance, and the ecological design of intimate life. Chapter 9 concludes by synthesising the argument, restating the normative claim that love entails fiduciary–epistemic responsibility, and setting out an agenda for further research across psychology, psychiatry, and family law.

Alongside these conceptual and normative arguments, the paper introduces the *Kahl Model of Epistemic Dissonance* (KMED) — the first formal mathematical model of epistemic clientelism in intimacy. A simplified version and a key trajectory plot are presented in Chapters 3 and 8, while Appendix A sets out the full mathematical specification, extended simulations, and Python code (with a GitHub link). This appendix demonstrates that the dynamics of recognition, autonomy, and dependence are not only conceptual but computationally tractable, establishing a foundation for computational epistemic psychology.

2. Conceptual Foundations

2.1 Defining epistemic clientelism

Epistemic clientelism, as developed in *Epistemic Clientelism Theory* (Kahl, 2025d), designates the conditional exchange of epistemic autonomy for goods external to truth. Autonomy here refers to the independence of

judgement: the ability to assess, affirm, or dissent without coercion or threat of loss. Clientelism arises when that independence is surrendered in order to secure recognition, belonging, protection, or status.

The mechanism is not persuasion but conditionality. A subject, faced with the possibility of rejection or exclusion, suppresses dissent or aligns with another's interpretation in order to retain access to goods that matter. Autonomy is thus traded for security: a student echoes consensus to secure favour, a bureaucrat withholds dissent to preserve career prospects, a citizen affirms an official narrative to remain safe. Each of these examples illustrates how epistemic life becomes distorted when recognition is offered only on condition of conformity.

While universities, bureaucracies, and political systems provide familiar illustrations, the logic of epistemic clientelism does not begin in public institutions. Its most formative terrain is intimate life, where the goods at stake are not prestige or advancement but existential necessities: love, belonging, survival. A child may learn that affection depends upon repeating a parent's version of events; a partner may discover that recognition is withheld when their perception contradicts the dominant narrative in the relationship. These exchanges cut deeper than institutional compromises, for they threaten not status but the very conditions of selfhood.

It is important to note that conditionality in intimate life is not always pathological. Occasional accommodation may preserve harmony or sustain mutual care. Clientelism emerges when such conditionality becomes repeated and asymmetrical, when one party's autonomy is habitually subordinated as the price of love or peace. What marks the difference is not the presence of dependence itself — which is inevitable — but the erosion of reciprocity and the collapse of recognition.

The novelty of this paper lies in treating intimacy as a paradigmatic site of epistemic clientelism. Institutions reproduce dynamics first rehearsed in the household and the partnership. If epistemic clientelism is a grammar of social life, intimacy is one of the places where its syntax is first learned, inscribing patterns of deference and silence that later echo in universities, workplaces, and political regimes. By beginning with intimacy, the analysis reframes epistemic clientelism not only as a structural feature of institutions but as a lived, everyday condition shaping the very possibility of knowledge and agency.

2.2 Trust, authority, and clientelism

To clarify what is distinctive about epistemic clientelism, it is useful to distinguish it from two adjacent relations: trust and authority.

Trust is a voluntary act of placing confidence in another, usually grounded in an expectation of care or goodwill. In epistemic terms, trust allows one to defer judgement without forfeiting autonomy, since the act of trust is itself chosen. A child may trust a parent's testimony, or a partner may trust that their disclosure will be received without ridicule. Yet trust is not immune to distortion: it can be misplaced, exploited, or betrayed. The very vulnerability that makes trust generative also exposes it to abuse.

Authority is the recognised capacity to guide belief or action, grounded in knowledge, role, or legitimacy. Teachers, judges, or scientists exercise authority when their standing is acknowledged. Ideally, authority enhances epistemic life by orienting subjects toward truth under conditions of legitimacy. But authority too is fragile. It can slide into domination when recognition is withheld, or when authority is claimed without genuine legitimacy. As Marková (2025) has shown, trust and authority are not independent but interdependent: trust sustains authority, while authority structures the conditions under which trust can be extended. This reciprocity, while generative, also renders both open to distortion. Joseph Raz's (1986) service conception of

authority adds a further benchmark: authority is justified only when it helps its subjects better conform to reasons that already apply to them. Authority, in other words, must serve autonomy, not erode it. Where this standard is abandoned, authority risks devolving into domination.

Clientelism differs in kind. It operates through conditionality: recognition or affection is granted only on the condition that autonomy is surrendered. Unlike trust, the subject's deference is not voluntary but compelled by the implicit or explicit threat of loss. Unlike authority, the relation does not rest on legitimacy but on dependence. In epistemic clientelism, a partner or child finds their perception respected only if it aligns with the dominant narrative; dissent is penalised with silence, withdrawal, or reproach.

In intimate life, trust and authority frequently collapse into clientelism. What begins as confidence or legitimate influence is degraded into conditional loyalty, as if affection or recognition were contingent currencies to be traded for submission. This collapse is especially corrosive because it occurs in spaces where dependence is unavoidable. As Nieminen and Ketonen (2024) observe, epistemic agency is not merely an abstract individual capacity but a fragile practice embedded in social relations, always vulnerable to distortion when recognition is rationed.

Here, fiduciary theory offers a corrective. As developed in *Directors' Epistemic Duties and Fiduciary Openness* (Kahl, 2025c) and elaborated in *The Silent Shadows* (Kahl, 2025i), fiduciary duties reorient power-holding relationships toward preserving the agency of those who depend upon them. The fiduciary is bound by duties of care and loyalty: not to exploit asymmetry, but to safeguard the weaker party's independence. Applied to intimacy, this framework reframes asymmetry not as a licence for conditionality but as a responsibility to protect autonomy even in its most fragile form.

This corrective foreshadows the proposal advanced later in this paper: that intimate relationships can be restructured into fiduciary–epistemic partnerships, sustained by explicit duties and commitments. At their most concrete, these commitments will be articulated in the form of an *Intimate Epistemic Oath*, which refuses the conditioning of recognition on conformity and redefines love as a pledge of epistemic care.

2.3 Conditional logic of intimacy

If epistemic clientelism is the conditional exchange of autonomy for goods, intimacy is where this logic is rehearsed with greatest intensity. The currencies at stake are affection, security, and recognition — not symbolic tokens of prestige or advancement, but existential conditions of survival and belonging.

Affection is the first currency. For the child, affection signals safety; for the partner, it marks the persistence of love. When affection is offered without precondition, it strengthens epistemic confidence by affirming that one may differ yet remain loved. When affection is tied to agreement, however, it becomes a lever of dependence. A child who echoes a parent's words to secure warmth, or a partner who swallows disagreement to avoid coldness, learns that affection is contingent upon compliance.

Security is the second. Intimacy often carries an implicit promise of protection: that one's vulnerabilities will be shielded rather than exploited. When this promise is stable, security becomes the ground on which autonomy flourishes. Yet when protection is withheld unless one conforms, dissent comes to feel perilous. A child may discover that stability depends upon repeating an imposed narrative; a partner may learn that safety — material or emotional — is granted only when alignment is maintained. Security thus becomes conditional, and autonomy is muted for fear of destabilisation.

Recognition is the third, and perhaps the most decisive. To be recognised is to have one's perception count as real. When recognition is freely given, even in the face of disagreement, it sustains autonomy by validating difference. When withheld, it corrodes subjectivity itself. A child told "you imagined it," or a partner dismissed as "overreacting," learns that their grasp of reality is negotiable, ratified or annulled at another's discretion. Unlike affection or security, recognition directly shapes one's confidence in knowing.

Not all conditionality is corrosive. Accommodation is part of intimate life: partners may at times defer for harmony, or parents may redirect a child's understanding for care. Such exchanges are benign when reciprocal and temporary. What marks clientelism is repetition and asymmetry: when affection, security, or recognition are persistently rationed, so that autonomy becomes the price of peace.

Seen structurally, these currencies reveal how intimacy operates as an economy of epistemic dependence. Each can function either as a resource for autonomy or as a mechanism of conditional control. Their conditional logic clarifies why intimacy must be treated as an epistemic site in its own right: it is here that psychology and psychiatry can observe how recognition, protection, and love either sustain resilience or entrench submission.

2.4 Bridge: Why psychology and psychiatry must engage intimacy as an epistemic site

The analysis of epistemic clientelism in intimacy cannot remain only philosophical. It requires integration with psychology and psychiatry, for these disciplines already investigate the mechanisms through which autonomy and dependence are formed, strained, and repaired.

As argued in *Re-founding Psychology as Epistemic Psychology* (Kahl, 2025f), dissonance is not merely cognitive discomfort but an epistemic event: a moment when perception collides with imposed reality, forcing the subject to choose between submission and resilience. Intimacy is the earliest environment in which such events are lived. By treating dissonance as epistemic, psychology gains a new vocabulary for understanding how conformity and resistance are cultivated from childhood onwards. This reframing shifts developmental and social psychology from describing behaviours to analysing the conditions under which autonomy is either suppressed or strengthened.

Psychiatry, likewise, has much to gain from recognising intimacy as epistemic terrain. Pathologies such as gaslighting, silencing, and trauma appear clinically as anxiety, dissociation, or depression, but at their core they are injuries to the subject's capacity to know. The therapeutic alliance demonstrates this vividly: when a patient reports abuse and the clinician initially minimises it, rupture occurs; when the clinician later acknowledges the error and validates the patient's testimony, repair is possible. What is restored is not only trust in the therapist but the patient's confidence in their own perception. These are epistemic realignments as much as emotional ones.

The claim, then, is that if intimacy is not recognised as an epistemic site, psychology risks reducing dependence and resilience to affective states, while psychiatry risks treating trauma as mere symptomology rather than as disruption of epistemic agency. By engaging intimacy through an epistemic lens, both fields gain explanatory depth and normative clarity.

Chapter 3 develops this integration in detail. It explores how conformity and obedience entrench submission, how attachment bonds shape epistemic vulnerability, how authoritarian dispositions in families reproduce clientelist logics, and how trauma and gaslighting rupture the very conditions of recognition. In each case, the focus is on how intimate life structures the epistemic capacities on which all later knowledge depends.

3. Psychological and Psychiatric Mechanisms

3.1 Conformity, obedience, and dissonance

The classical experiments of social psychology reveal how deeply social pressures shape epistemic life. Solomon Asch's (1956) line-judgement studies showed that individuals often denied their own perception in order to align with the group. At first glance the stakes were trivial — the length of lines on a card. Yet the mechanism was profound: subjects learned that recognition from peers could be lost if they insisted on what they saw. Even when the cost was merely social awkwardness, the readiness to suppress perception disclosed a structural logic later echoed in more consequential domains: epistemic compliance as the price of belonging.

Stanley Milgram's obedience experiments (1974) extended this logic into authority. Participants followed instructions to administer what they believed were painful shocks, even when their conscience resisted. The experimenter's role conferred legitimacy powerful enough to override personal conviction. In intimate life, a similar pattern appears. A child may comply with a parent's directive even when it contradicts their experience, or a spouse may acquiesce to a partner's account to avoid conflict. The lesson is the same: authority, when backed by relational sanctions, can reshape judgement.

Leon Festinger's (1957) theory of cognitive dissonance explained such submission in terms of the discomfort produced by misalignment between behaviour and belief. A smoker who knows the dangers of smoking, yet continues the habit, reduces tension by adjusting belief ("it relaxes me; it can't be that bad"). In intimacy, the same mechanism occurs when a partner convinces themselves that silencing doubt is "keeping the peace." Dissonance thus reveals how epistemic strain is resolved not always by aligning with truth, but by protecting the conditions of belonging. Subsequent research has shown that this drive to reduce dissonance is not a peculiarly human cultural product but a more basic cognitive feature. Egan, Santos, and Bloom (2007) demonstrated dissonance-like mechanisms in both children and capuchin monkeys, where choices were retroactively rationalised to reduce conflict between preference and action. This finding underscores that the need to resolve dissonance is foundational to cognition itself, which makes its epistemic stakes even more significant: the universality of dissonance means that every context of dependence and recognition will inevitably channel it toward autonomy or submission.

Gregory Berns and colleagues (2005) added a neurobiological dimension. Their research showed that conformity does not only alter outward responses but can reshape neural activity in regions associated with perception itself. When people aligned with group opinion, their brains registered the altered perception as reality. Conformity, in other words, is not just public compliance but a cognitive reprogramming, in which recognition by others literally changes what is seen.

In *Cognitive Dissonance as Epistemic Event* (Kahl, 2025b), I argue that dissonance should be reinterpreted as an epistemic event: a structural moment when the subject must decide whether to preserve independence or to defer for the sake of security or recognition. To formalise this, I introduce the *Kahl Model of Epistemic Dissonance* (KMED), which captures how autonomy, dissonance tolerance, and dependence evolve under different relational conditions. A simplified version of the model shows two contrasting trajectories: under fiduciary scaffolds, epistemic autonomy tends to grow; under clientelist suppression, it collapses (see Figure X). Full equations, simulation code, and extended plots are presented in Appendix A.

In intimate life, these dynamics are not occasional laboratory curiosities but daily rehearsals. A child echoes a parent's view to keep affection warm; a partner sets aside their perception to preserve stability; a family

member remains silent to avoid conflict. Each case demonstrates how the currencies of intimacy — affection, security, recognition — are deployed conditionally, shaping whether dissonance leads to resilience or to compliance. Conformity and obedience, far from being exceptional pressures, are the everyday theatre in which epistemic clientelism is normalised, and where autonomy is either nurtured or eroded.

3.2 Attachment and epistemic dependence

Attachment theory provides a crucial framework for understanding how epistemic vulnerability is embedded in close relationships. John Bowlby's work (1971) identified attachment as a biological drive: the instinct to seek safety and proximity to a caregiver. From the beginning of life, children depend on caregivers not only for protection but also for validation of reality. A parent's simple acknowledgement — "yes, you saw the dog" — confirms perception; a denial — "no, that never happened" — unsettles it. Recognition thus becomes the first medium through which autonomy is either supported or undermined.

Later research clarified the developmental consequences of different attachment styles. Mikulincer and Shaver (2016) showed that secure attachment provides a stable base for exploration: the child learns that even if disagreement or dissonance arises, the bond will not be withdrawn. This stability nourishes epistemic agency, allowing the child to test perception, make errors, and still trust their capacity to know. Insecure attachment, by contrast, places the child in an economy of scarce or unpredictable recognition. An anxiously attached child clings to a caregiver's interpretation to avoid abandonment, while an avoidantly attached child suppresses the need for validation altogether. In both cases, autonomy is weakened, as self-trust becomes contingent on the unreliable affirmation of others.

These dynamics extend into adulthood. Attachment systems are carried into partnerships, shaping how recognition and dissent are negotiated. In a secure bond, partners can disagree — about finances, family, or memory of events — without fearing relational rupture. Dissonance becomes a space for dialogue, not a trigger for withdrawal. In insecure bonds, by contrast, autonomy is often silenced. A partner may swallow their perception in conflict, fearing anger or rejection; another may reframe their own doubts to maintain peace. Here epistemic clientelism flourishes: recognition and belonging are rationed, and autonomy is repeatedly compromised.

It would be a mistake, however, to idealise secure attachment as eliminating all epistemic tension. Even the most stable bonds generate conflicts of perception. What distinguishes them is resilience: the ability to tolerate dissonance without demanding submission. Secure attachment provides the scaffolding within which autonomy can survive dependence, while insecure attachment turns dependence into a liability.

Attachment is thus more than an affective bond; it is an epistemic structure. It regulates how much weight is given to another's recognition and whether dissonance leads to growth or submission. By shaping the conditions under which autonomy is either preserved or eroded, attachment systems prepare the ground for later epistemic dispositions — a point that becomes especially clear in families marked by authoritarian styles of parenting, to which we now turn.

3.3 Parental authoritarianism and epistemic dispositions

If attachment establishes the scaffolding of epistemic life, parenting styles shape the terms on which recognition and autonomy are negotiated. Research by Guidetti, Carraro, and Castelli (2017) demonstrates that parental authoritarianism, measured through right-wing authoritarianism (RWA) and social dominance

orientation (SDO), significantly influences children's epistemic, existential, and relational needs. These dimensions operate differently but converge on a similar outcome: epistemic dependence is structured through conditionality.

The mechanism is clearest in high-RWA parents, who value obedience, order, and loyalty to established authority. In such households, dissent is often treated as defiance, and affection or stability may be withdrawn when children resist parental directives. A child who repeats a parent's political opinion, even if they do not understand or believe it, is praised for obedience; a child who questions it risks reprimand. In this way, epistemic autonomy is traded for affection and safety.

High-SDO parents convey a different lesson. By valorising hierarchy and superiority, they teach children that recognition is tiered: some voices matter more than others. In practice, this may mean dismissing a child's perception with the implication that adults always know better, or rewarding deference as evidence of "knowing one's place." The epistemic cost is an early habituation to hierarchy, where autonomy is curtailed not only for affection but for the chance of standing within an imposed order.

The developmental stakes are considerable. Children raised in such contexts often learn to approach knowledge as a transaction: autonomy is risky, while compliance is rewarded. These lessons reverberate beyond childhood. In school, students accustomed to authoritarian parenting may prioritise conformity over inquiry. In workplaces, they may silence doubts to secure advancement. And in partnerships, they may mute dissent to maintain peace. Authoritarianism thus embeds epistemic clientelism within the family system, reproducing itself across the intimate and institutional domains of life.

This is not to suggest that all authoritarian parenting is identical or uniformly destructive. Cultural context, intensity, and the presence of warmth can mediate its effects. Yet even when softened, authoritarian dynamics tend to normalise the idea that recognition is conditional and hierarchically distributed. In adult intimacy, this legacy often surfaces as difficulty tolerating disagreement or as a tendency to equate dissent with disloyalty. What began as a child's strategy for survival can become a partner's habit of self-silencing.

In this sense, the authoritarian family functions as more than a site of obedience: it is a nursery of epistemic dispositions, producing adults primed for clientelist relations in both public and private life. It conditions individuals to see recognition as contingent and to accept asymmetry in the very domain where autonomy should first have been nurtured.

3.4 Intimacy, trauma, and psychiatric stakes

The dynamics of epistemic clientelism surface with particular clarity in trauma and in the therapeutic encounter. Psychiatry and psychotherapy regularly confront injuries to epistemic agency, even if they are more often described in affective or behavioural terms.

The **working alliance** between patient and clinician is one of the most studied constructs in psychotherapy (Bordin, 1979). It rests on trust, mutual agreement on goals, and the clinician's discretionary role in guiding interpretation. In fiduciary-epistemic terms, the clinician occupies a position of authority over fragile self-perceptions. When this alliance is honoured, patients risk disclosing painful experiences because they trust that their testimony will be recognised. When it is ruptured — for example, when a clinician minimises or doubts a survivor's account of abuse — the injury is not merely emotional but epistemic: the patient's confidence in their own perception is shaken. Repair occurs when the clinician acknowledges the error and validates the patient's experience, re-establishing both relational trust and epistemic self-confidence.

Gaslighting is a paradigmatic form of epistemic coercion. Unlike the occasional withdrawal of recognition in insecure attachment, gaslighting is systematic and deliberate. Through repeated invalidations — “you’re imagining things,” “that never happened,” “you’re overreacting” — the gaslighter corrodes the victim’s ability to rely on their own perception. Recognition is withheld until the victim adopts the imposed narrative. The psychiatric consequences are well documented: chronic anxiety, derealisation, depression. But at root, the injury is epistemic. Gaslighting is clientelism weaponised: autonomy is surrendered because recognition has been turned into a conditional and rationed good. As I argued in *The Silent Tree*, silencing is never neutral but a politics of sound: whose voice is audible, whose testimony is downgraded to noise, and whose perception is systematically erased (Kahl, 2025j). Gaslighting is thus not only coercive but acoustically epistemic — it mutes the subject in their own life.

Trauma is often epistemic in nature. Survivors of violence, abuse, or institutional betrayal not only suffer affective pain but lose trust in their own perception and memory. Dissociation, intrusive recollections, and self-doubt reflect an epistemic rupture: “Did this really happen? Can I trust my mind?” When perpetrators or institutions deny the survivor’s account, the injury is compounded, producing what some have called betrayal trauma. The task of recovery is thus not only emotional regulation but epistemic restoration.

This makes **epistemic rupture and repair** central to clinical practice. A survivor who risks recounting abuse requires recognition not merely as empathy but as affirmation that their perception counts. When the therapist validates the account, the survivor regains confidence in their capacity to know; when it is denied, rupture deepens. Therapeutic progress depends on re-establishing unconditional recognition, where the subject’s autonomy is no longer contingent upon conformity to another’s narrative.

Psychiatry, then, encounters epistemic clientelism every day, even if it names it differently. To conceptualise these injuries as epistemic clarifies the stakes of care: clinicians are not simply treating symptoms but are fiduciaries of epistemic agency. Their duty is to protect the conditions of knowing itself, without which recovery cannot endure.

These dynamics are not uniform across contexts. In the next chapter, we will see how cultural scripts, patriarchal structures, and globalised family forms shape what counts as recognition, how authority is exercised, and where epistemic coercion is normalised or resisted.

4. Cultural Variations in Intimate Epistemic Authority

4.1 Proverbs and cultural scripts

Proverbs condense cultural wisdom into memorable phrases that encode not only moral lessons but also epistemic norms. They function as “scripts” that instruct individuals on when to speak, when to defer, and how recognition is distributed. In this sense, proverbs act as cultural carriers of epistemic clientelism: they naturalise conditional recognition and frame the surrender of autonomy as the prudent price of belonging.

In the Japanese context, the well-known saying *The nail that sticks out gets hammered down* (出る釘は打たれる, *deru kugi wa utareru*) expresses the dangers of deviation. While often cited as a caution against arrogance, it also encodes an epistemic lesson: those who assert their own perception against the group risk sanction. Within families, this script pressures children to suppress difference for the sake of harmony, and partners to avoid

standing apart lest they bring shame. Yet scholars note that conformity in Japan is not absolute; it is situational, and resistance can occur through subtle non-verbal or contextual cues (Asai & Barnlund, 1998). This nuance reminds us that proverbs present ideals more than they dictate uniform practice.

In Confucian traditions, particularly in China and Korea, proverbs emphasise filial piety and hierarchical deference. For example: *When the father is alive, observe his will; when he dies, follow his example* (父在觀其志，父沒觀其行, *fù zài guān qí zhì, fù mò guān qí xíng*). Here, epistemic authority is anchored in the father, whose will and example guide judgement across generations. To dissent is to fracture harmony and dishonour hierarchy. Yet Confucian scholars argue that this deference is not merely coercive but relational, framed as a reciprocal duty that binds elders to benevolence (Hwang, 1999). Even so, the epistemic implication is clear: children learn that their recognition is contingent upon alignment with parental authority.

In the Turkish context, proverbs similarly valorise obedience and warn against standing apart. One example is *Obedience is the ornament of a child* (*İtaat, çocuğun ziynetidir*), which frames compliance as a virtue in itself. Another, *He who separates from the community is devoured by wolves* (*Sürüden ayrılanı kurt kapar*), portrays nonconformity as perilous. Within intimate settings, these proverbs sanction parental authority and discourage dissent within partnerships. But as with Japan and Confucian contexts, Turkish families may reinterpret such sayings in practice, balancing communal loyalty with private negotiation (Kağıtçıbaşı, 2007).

Across these traditions, proverbs act as epistemic conditioning devices. They are not neutral observations but pedagogical tools: children grow up reciting them, partners invoke them in disputes, and elders cite them to legitimise authority. They frame recognition as conditional, autonomy as risky, and dissent as socially costly. As I argued in *The Silent Tree*, these sayings can be read as part of the politics of sound: they determine whose voice counts, which utterances are audible, and when silence is valorised as loyalty rather than seen as suppression (Kahl, 2025j). In this way, they stand as cultural-scale analogues to the interpersonal dynamics analysed in Chapter 3.4: just as gaslighting corrodes epistemic agency by rendering a victim's perception inaudible, so too do proverbs institutionalise silencing as loyalty and audibility as conditional upon conformity.

From the standpoint of epistemic psychology, proverbs therefore exemplify how linguistic scaffolds shape dissonance: they teach when to suppress one's perception, when to defer, and when to conform. These insights also align with broader models of cultural psychology, such as Markus and Kitayama's (1991) distinction between independent and interdependent selves. Proverbs are one mechanism through which these cultural grammars are transmitted and sustained, preparing the ground for the more systematic patterns of autonomy and relatedness explored in the next section.

4.2 Autonomy and relatedness across cultures

Where proverbs transmit cultural scripts of conformity and deference (see §4.1), cross-cultural psychology systematises these intuitions into models of selfhood. Markus and Kitayama (1991) distinguished between independent and interdependent construals of the self, showing that cognition, emotion, and motivation are structured by cultural expectations about autonomy and relatedness. In collectivist contexts, interdependence is foregrounded, while in individualist contexts, autonomy and self-expression are valorised. Yet subsequent research has nuanced this binary, demonstrating that autonomy and relatedness are not simple opposites but can be co-constitutive.

Güngör, Karasawa, Boiger, Dinçer, and Mesquita (2014) compared Japan and Turkey and found that interdependence takes distinct forms. In Japan, where face concerns dominate, people emphasise conformity — fitting in by aligning behaviour with the expectations of others. In Turkey, framed by honour concerns, people emphasise relatedness — sticking together by maintaining closeness and shared identity with significant others. Both affirm interdependence, but the mode differs: Japanese conformity, Turkish relatedness.

Crucially, both coexist with autonomy. Güngör et al. found that autonomy predicted personal well-being in both Japan and Turkey, while conformity and relatedness predicted relational well-being in culturally specific ways. This challenges the Western assumption, derived in part from Markus and Kitayama's early dichotomy, that autonomy and relatedness are opposing poles. Instead, they can be co-constitutive: a person may sustain epistemic agency while affirming relational bonds, provided belonging is extended freely rather than rationed as a conditional good.

These dynamics become visible in intimate life. A Japanese spouse may defer in conversation to preserve harmony, not because they have abandoned autonomy but because dissent is postponed until a private setting. A Turkish family member may align with kin in public as an expression of solidarity, while still maintaining personal conviction. In both cases, autonomy and relatedness are negotiated rather than mutually exclusive. The key epistemic distinction lies in whether dissent, when voiced, is received with recognition or treated as betrayal.

At the same time, neither Japan nor Turkey is culturally monolithic. Within both societies, there is variation between generations, urban and rural contexts, and degrees of exposure to globalised norms. Some Japanese contexts valorise individuality; some Turkish contexts privilege personal autonomy over familial solidarity. Cultural proverbs and practices offer strong cues, but individuals interpret, resist, or adapt them in diverse ways. This nuance underscores that autonomy and relatedness are not fixed cultural destinies but dynamic negotiations within broader epistemic grammars.

For epistemic psychology, this insight unsettles the Western tendency to equate autonomy with independence. The decisive issue is not how autonomy and relatedness are balanced, but whether recognition is unconditional. Autonomy thrives where relational bonds are not purchased at the cost of voice; relatedness is dignified when it coexists with dissent. Where recognition is conditional, epistemic clientelism flourishes; where it is unconditional, autonomy and belonging reinforce one another.

These cultural grammars also intersect with other axes of authority, particularly gender. In many households, expectations of conformity or relatedness are overlaid with patriarchal hierarchies, shaping whose voices may dissent and whose must defer. The next section explores how patriarchy institutionalises epistemic subordination within families, making intimate life a microcosm of broader regimes.

4.3 Patriarchy and gendered subordination

Patriarchal family systems institutionalise epistemic clientelism by positioning male authority as the default arbiter of truth within the household. Fathers and husbands are tacitly endowed with epistemic privilege, while women and children are subordinated knowers. This hierarchy manifests in ordinary disputes: a mother's account of a child's fever may be dismissed when the father insists it is "nothing serious"; a daughter's memory of harassment may be minimised by relatives who defer to the father's authority. Such moments, seemingly domestic, teach that credibility is not evenly distributed but stratified by gender.

Miranda Fricker's (2007) concept of **testimonial injustice** illuminates this dynamic: a speaker is not believed, not because of the content of their claim, but because of who they are. In patriarchal households, testimonial injustice is systemic, not episodic. Women's testimony is filtered through stereotypes of irrationality or emotionality, producing what might be called a "gendered credibility deficit." The injustice is cumulative: small silences compound into enduring habits of deference, often carried into schools, workplaces, and partnerships.

The phenomenon of **gaslighting** intensifies this silencing by weaponising gendered stereotypes. As Paige Sweet (2019) argues, gaslighting draws its force from broader cultural tropes of female irrationality. In romantic relationships, gaslighting often takes the form of a husband insisting that his wife is "overreacting" or "imagining things." Klein, Li, and Wood (2023) found that survivors described a progressive erosion of self-trust and heightened mistrust of others. Klein, Wood, and Bartz (2025) extend this analysis, theorising gaslighting as a structured form of epistemic injustice, whereby the victim is systematically stripped of status as a knower. Empirical findings reinforce this: March et al. (2025) report that men, more than women, judged gaslighting tactics acceptable, a tendency correlated with psychopathy and Machiavellianism. Patriarchy thus intersects with personality propensities to entrench epistemic coercion.

The psychiatric stakes are acute. Women subject to long-term testimonial injustice and gaslighting often present with anxiety, hypervigilance in relationships, and dissociative tendencies rooted in chronic self-doubt. These are not merely affective injuries but **epistemic ruptures**: the undermining of confidence in perception and memory. Clinical repair requires more than affective reassurance. It involves epistemic restoration — the re-establishment of credibility and validation of testimony. In this sense, psychiatric care is compelled to address patriarchal epistemic injustice, even when it frames the issue in diagnostic rather than epistemic terms.

Cultural nuance complicates this picture. In Confucian households, deference to paternal authority is framed as filial duty; in Mediterranean honour cultures, male dominance is tied to family reputation; in Western nuclear families, subtler stereotypes about women's emotionality can still legitimise dismissal. The form varies, but the structure remains: male authority as epistemic arbiter, women and children as conditional recipients of recognition.

Patriarchy therefore exemplifies how intimate epistemic clientelism scales into wider political structures. The family becomes a microcosm of regimes, where obedience is rehearsed, dissent is pathologised, and authority is naturalised. Chapter 5 takes up this parallel explicitly, analysing how authoritarian predispositions in domestic life mirror and reinforce authoritarianism in political systems.

4.4 Hybridities in globalised families

Hybridities in globalised families illuminate how epistemic authority is negotiated under conditions of cultural multiplicity. Migration, adoption, and intercultural unions generate households in which competing scripts of recognition coexist, often uneasily. These contexts reveal both the risks of entrenched clientelism and the opportunities for cultivating post-clientelist practices.

Mixed households. When partners are formed across cultural divides, everyday intimacy becomes a site where competing epistemic expectations are tested. One partner may expect disagreement to signal disrespect, while the other may treat dissent as an expression of care. Research on bicultural identity negotiation highlights the strategies individuals use to navigate such conflicts: assimilation, accommodation, or separation (Toomey, Dorjee, & Ting-Toomey, 2013). In family life, this may mean one spouse repeatedly silences dissent to maintain

peace, while the other interprets silence as lack of trust. Conditional recognition thus becomes the hidden currency of the household, shaping which voices are heard and which are deferred.

Diasporic dynamics. Children of migrants often live with “double scripts”: epistemic deference at home and independent judgement at school. Lou, Lalonde, and Giguère (2012) show that bicultural young adults in Canada navigate the decision to leave the parental home under tension between family allocentrism and personal autonomy. Their study illustrates how young people learn to toggle between conditional recognition (affection at home linked to compliance) and more unconditional forms of recognition encountered in school or peer contexts. The resulting epistemic dissonance can strain mental health, contributing to bicultural stress, identity conflict, and difficulties in trusting one’s own judgement.

Adoption and identity negotiation. Blair and Liu (2020) examine Chinese-born, American-raised adoptees negotiating bicultural identity under the gaze of Euro-American adoptive parents. Their accounts reveal the use of co-cultural communication strategies — assimilation, accommodation, resistance — in daily family interactions. For some adoptees, silence or assimilation became a way to secure parental acceptance, while others experimented with more assertive forms of accommodation. These negotiations exemplify how adoptees learn which expressions of identity and dissent will be recognised unconditionally, and which are deemed unacceptable. Family intimacy thus becomes a crucible of epistemic recognition, where belonging is repeatedly tested.

Globalisation and opportunity. Hybrid families do not only reproduce conflict; they may also generate resilience. Couples who explicitly discuss recognition, or parents who affirm dual belonging rather than demand assimilation, open space for epistemic agency. Children raised in such households may learn that dissent need not threaten belonging but can coexist with relational loyalty. Post-clientelist practices emerge when recognition is decoupled from conformity and granted unconditionally.

Hybrid contexts therefore represent both fragility and possibility. When unresolved, they entrench epistemic clientelism through silence, stress, and coercion. But when consciously negotiated, they foster pluralist recognition and resilience. These outcomes matter beyond the household. As the next chapter will argue, the negotiation of epistemic authority in families is not only a private matter but also a foundation for political life. Households that teach dissent as loyalty cultivate democratic resilience; those that pathologise dissent replicate the logics of authoritarianism.

5. Authoritarianism and Domestic Epistemic Clientelism

5.1 Authoritarian predispositions: fear and conformity

Authoritarianism has long been theorised as an orientation rooted in fear and sustained by conformity. Feldman (2003) argues that authoritarian predispositions emerge from heightened sensitivity to threat: those who see the social world as dangerous are more likely to demand obedience, conformity, and punitive authority. At the epistemic level, fear contracts the horizon of acceptable belief and narrows tolerance for ambiguity. In family life, parents who interpret the environment as threatening often impose rigid rules at home, insisting on deference as the condition of safety. The message absorbed by children is not only that disobedience is risky but that dissent itself is a danger to belonging.

In *Authoritarianism and the Architecture of Obedience*, I argue that authoritarianism can be understood as a form of fiduciary betrayal (Kahl, 2025a). Authority, in fiduciary terms, should safeguard the agency of dependants by using discretionary power for their benefit. Authoritarian authority inverts this logic: recognition and protection are granted only if autonomy is surrendered. A father who insists, “Do as I say if you want to be safe,” exemplifies this betrayal. What is offered as care is conditional loyalty; what is demanded is not merely behaviour but epistemic compliance.

Developmental evidence reinforces the intergenerational transmission of such dispositions. Xu, Wang, Zhang, Zeng, and Yang (2022) show that authoritarian marital dynamics and parenting styles predict the emergence of callous-unemotional (CU) traits in children, with gender moderating these pathways. CU traits — marked by shallow affect and diminished empathy — reshape the child’s recognition economy: they blunt sensitivity to others’ perspectives while teaching that emotional and epistemic affirmation are scarce goods. In such households, children do not simply learn obedience; they learn that credibility itself is rationed, and that safety is secured through alignment with authority.

Taken together, these perspectives show authoritarian predispositions as more than political attitudes. They are epistemic patterns rehearsed in the microcosm of domestic life. Threat perception primes deference; fiduciary betrayal recasts care as conditional recognition; authoritarian parenting reproduces epistemic dispositions across generations. Authoritarianism, in this sense, is less a sudden ideological preference than a continuity of epistemic conditioning that begins in the household. The next section will consider how this conditioning operates through domestic currencies of order, where loyalty and obedience are exchanged for stability in ways that mirror political regimes.

5.2 Domestic order as epistemic currency

Households are not merely sites of affection; they also operate as regimes in miniature, where loyalty and obedience become currencies exchanged for the goods of care, stability, and security. Domestic authority sustains itself not through overt coercion but by weaving conditionality into the fabric of recognition: affection is extended when authority is affirmed, withdrawn when it is questioned. This creates what might be called a credibility economy, in which epistemic trust is rationed and belonging is purchased through conformity.

Developmental psychology shows how this economy is built in ordinary interaction. Nelson, O’Brien, Grimm, and Leerkes (2014) distinguish maternal styles of engagement. In sensitive exchanges, a child’s perception is affirmed — a mother might say, “Yes, the shadow looked scary, but it was just the tree.” Here recognition is unconditional, supporting both comfort and autonomy. Directive styles, by contrast, demand alignment: “Don’t be silly, there was no shadow,” teaching that security comes only through compliance with parental judgement. Disengaged styles provide little recognition at all, leaving the child without scaffolding for self-trust. Each style embodies a distinct epistemic currency: affirmation as a gift, alignment as a tax, neglect as impoverishment.

Historical evidence points to similar dynamics. Lassonde (2017) describes disciplinary intimacy in American middle-class families, where parental closeness was maintained through constant oversight. Parents insisted on sharing in children’s private thoughts, presenting surveillance as care. For example, diaries might be read “for their own good,” or friendships monitored under the guise of protection. Affection and intimacy were not withdrawn but made contingent on legibility to authority. In such arrangements, epistemic transparency itself becomes the price of belonging.

Cultural mechanisms extend these patterns. Chen and Wu (2023) show that filial piety in Chinese households links family obedience with expectations in romantic life. Youths raised to equate loyalty with love often transfer this logic into adult partnerships: a girlfriend who questions is “disrespectful,” a boyfriend who asserts independence is “unfilial.” What begins as obedience to parents evolves into a relational economy where affection is conditional upon deference. Intimacy thereby inherits the same hierarchies that governed the family, demonstrating how epistemic clientelism migrates across life stages.

From a psychiatric perspective, these economies are not benign. When recognition is rationed and affection tethered to conformity, children learn that self-trust is fragile, always subject to external validation. Over time, this fosters insecurity, anxiety, or learned helplessness. Autonomy is not extinguished outright but corroded, replaced by a pattern of second-guessing oneself in search of approval.

In *Epistemic Clientelism Theory*, I have argued that such arrangements constitute micro-clientelist systems (Kahl, 2025d). Authority operates not only by punishing disobedience but by embedding obedience into the very grammar of care, teaching that stability must be bought with submission. Domestic order, in this view, is less a natural bond than an economy of epistemic exchange.

Yet these currencies do not only shape loyalty; they also regulate silence. To dissent is to risk both affection and credibility, creating a household dynamic in which voices are selectively muted. It is to this logic of silencing — and its resonance with testimonial injustice — that the next section turns.

5.3 Testimonial injustice and silencing

Testimonial injustice, as defined by Fricker (2007), occurs when a speaker’s credibility is downgraded not because of the quality of their testimony but because of their identity. Within patriarchal and authoritarian households, this injustice is not incidental but systemic: women and children are habitually treated as unreliable knowers, their words weighed lightly against those of the family authority. The injustice is epistemic at its core: it erodes the very conditions under which testimony can be given and received.

Wang and Chen (2023) demonstrate how authoritarian filial piety recalibrates these dynamics in Chinese families. By binding love and belonging to deference, filial piety discourages individuating autonomy and trains youth to accept testimonial disqualification. A daughter’s view on her education or romantic partner may be overridden on the grounds that true loyalty lies in silence and compliance. This training is then exported into adult intimacy, where partners may equate disagreement with disloyalty and interpret dissent as a failure of love. The outcome is an entrenched *credibility hierarchy*: authority speaks with presumptive legitimacy, while subordinate voices are heard only if they echo.

These dynamics are visible in everyday disputes. A wife’s observation about a child’s recurring fever may be dismissed as exaggeration, while the husband’s word closes the discussion. A son’s account of peer mistreatment may be doubted, the teacher’s or parent’s counter-narrative taken as decisive. A partner who insists “I don’t feel heard” may have the protest itself reframed as evidence of irrationality. In each case, credibility is not distributed by the weight of evidence but by the speaker’s position in the domestic order.

The psychological costs of such silencing are significant. Long-term testimonial injustice fosters self-doubt, learned deference, and what might be called epistemic quietism: the internalised conviction that one’s perceptions are not worth voicing. Clinical presentations often resemble anxiety, depressive symptoms, or relational withdrawal, but the root injury is epistemic: the erosion of self-trust in one’s own capacity to know and to be believed.

From the perspective of epistemic clientelism, testimonial injustice functions both as currency and as sanction. Compliance is rewarded with credibility; dissent is punished with silence. What should be a fiduciary relationship of care becomes a hierarchy of recognition, where credibility is rationed according to authority rather than earned by truthfulness. The result is not only personal injury but structural habituation to epistemic inequality.

This habituation does not remain confined to the household. Families that normalise credibility hierarchies prepare individuals for life in broader authoritarian regimes, where voices are similarly silenced by status, identity, or dissent. The next section will take up this parallel explicitly, examining families as microcosms of regimes in which epistemic authority is centralised and obedience routinised.

5.4 Families as microcosms of regimes

Authoritarian logics do not originate solely within political institutions; they are rehearsed first in the household, where the grammar of obedience, surveillance, and silencing is normalised. In *Lessons from the Hong Kong Unrest*, I argued that authoritarian regimes sustain themselves by exploiting epistemic fragility, narrowing dissent through conditional recognition (Kahl, 2025h). In *Re-founding Psychology as Epistemic Psychology*, I further developed this view, showing that recognition and authority form the grammar of social life, structuring autonomy and dependence from early bonds (Kahl, 2025f). In *Foucault's Dream*, I traced how these processes extend into the “domestication of knowledge,” where epistemic authority is tamed and made governable not only in institutions but in the intimate practices of everyday life (Kahl, 2025e). And in *The Epistemic Architecture of Power*, I demonstrated how authority across scales is maintained not merely through coercion but through the regulation of knowledge itself — determining whose perception counts, and under what conditions (Kahl, 2025n). Taken together, these analyses suggest that authoritarian architectures visible in state and society mirror epistemic arrangements embedded in family life.

Empirical research underscores this continuity. Chen and Wu (2023) found that filial piety in Chinese households shapes not only family obedience but also youths’ implicit theories of love. Those socialised into authoritarian filial duty were more likely to see romantic love as obligation-bound, expecting deference as proof of loyalty. In this way, intimate life became an extension of familial epistemic codes: testimony is recognised only if aligned with authority, dissent interpreted as betrayal. Romantic intimacy is thus not autonomous but tethered to inherited political grammars of deference.

In a different cultural context, Lasseonde (2017) describes disciplinary intimacy in American middle-class families, where closeness was cultivated through constant oversight. Parents framed surveillance as care: reading diaries, questioning friends, or monitoring daily routines under the guise of protection. Children learned that intimacy was inseparable from authority, and that transparency was the currency of belonging. The epistemic lesson was double-edged: safety was assured, but only through submission to oversight.

These arrangements do not only shape authority structures; they leave psychological traces. Living within “domestic Leviathans” fosters anxiety, hypervigilance, and internalised self-distrust. Psychiatry encounters these legacies daily: authoritarian parenting and silencing practices leave individuals with fragile self-trust, manifesting in depression, trauma, and susceptibility to coercive dynamics in adult partnerships. Ruptures of recognition in childhood often become the invisible substrate of psychiatric symptoms, while therapeutic repair can be understood as re-establishing fiduciary scaffolds that were absent or broken in early life.

The integration of these perspectives highlights a dual role of the family. It is an incubator of authoritarian dispositions, training recognition as conditional and dissent as deviance. But it is also a mirror, reproducing in

miniature the epistemic architectures of authoritarian regimes: surveillance as intimacy, silence as loyalty, obedience as the price of stability. As Foucault's *Dream* emphasises, the processes of epistemic domestication bind these scales together, ensuring that what is tamed in the family can be governed in the polity (Kahl, 2025e). And as *The Epistemic Architecture of Power* makes clear, this governance is achieved not only through force but by shaping the epistemic terms of recognition, embedding the control of knowledge into the fabric of social and intimate life (Kahl, 2025n).

This raises a crucial normative distinction. As Raz (1986) argued in his service conception, authority is legitimate only when it enables individuals to better conform to their own reasons. Authoritarian authority, whether in regimes or households, reverses this principle: it forces conformity to the authority's will, corroding autonomy. Fiduciary authority, by contrast, is justified because it protects and strengthens epistemic agency. Families thus stand at a crossroads: they can reproduce authoritarian logics of domination, or they can rehearse fiduciary logics of service — authority as stewardship of the other's agency.

Recognising this mirroring has profound implications. If families reproduce authoritarian logics, they can also become sites for their undoing. Recasting intimacy through fiduciary scaffolds — where recognition is unconditional and autonomy preserved — offers a route toward post-clientelist practice. As Chapter 9 will argue, this transformation is not only a private matter but a political and disciplinary necessity: the reorganisation of intimacy provides the foundation for epistemic psychology as a field, and for a society capable of resisting authoritarian capture.

6. Conflict Dynamics in Partnerships

6.1 Epistemic vs relational conflict

Conflict in intimate partnerships is not inherently corrosive. Darnon, Doll, and Butera (2007) distinguish between **epistemic conflict** — disagreement oriented toward truth, understanding, or problem-solving — and **relational conflict**, which reframes disagreement as a challenge to competence, loyalty, or belonging. The first can dignify autonomy, recognising the partner as a co-knower whose perspective contributes to shared growth. The second reduces autonomy to a liability, casting dissent as defiance and turning disagreement into a struggle over status.

The difference is not only conceptual but biological. Shrout, Renna, Madison, Malarkey, and Kiecolt-Glaser (2023) show that couples who fall into entrenched negative communication patterns — criticism, hostility, withdrawal — suffer not only relational dissatisfaction but immune dysregulation, slower wound healing, and heightened inflammation. Relational framing corrodes health because it corrodes recognition: when disagreement signals rejection rather than curiosity, the body itself registers the deprivation, activating stress pathways as if under attack.

Conflict dynamics also unfold in time. Dermody, Earle, Fairbairn, and Testa (2025) reveal that couples' exchanges during disputes evolve moment by moment. Positive reciprocity — constructive engagement, acknowledgment, humour — strengthens as conflict continues, whereas negative reciprocity — blame, dismissiveness, escalation — remains stable, trapping partners in spirals of defensiveness. The framing matters: when conflict is interpreted epistemically, disagreement becomes material for joint inquiry; when framed relationally, couples lock into loops where every word confirms distrust.

The roots of these tendencies are planted early. Ferreira, Cadima, Matias, Leal, and Mena Matos (2022) found that children with low self-control elicited greater maternal frustration, which in turn predicted heightened conflict with teachers. What begins as difficulty tolerating difference in early caregiving becomes a template for interpreting misalignment as relational insult. These children learn that divergence provokes frustration rather than dialogue, foreshadowing adult partnerships where dissent is experienced as disloyalty.

Through the lens of Epistemic Clientelism Theory, the stakes are clear. Epistemic conflict honours autonomy and builds resilience, while relational conflict enforces clientelism: recognition becomes rationed, belonging collateralised, and voice taxed by loyalty. The health of both relationship and body depends on whether conflict is permitted to remain epistemic, or whether it collapses into relational subjugation.

Whether conflict remains epistemic or degenerates into relational struggle often turns on how it is phrased. Language, as the structuring grammar of authority and recognition, plays a decisive role — the subject of the next section.

6.2 Rhetoric of conflict

Language is never a neutral medium in intimate disputes. It is both tool and terrain, shaping whether disagreement is processed as collaborative inquiry or as relational indictment. Pettit, Hellwig, Costello, Hunt, and Allen (2024) demonstrate that “**you-talk**” — accusatory phrasing such as “You never listen” or “You always do this” — is strongly linked to relational aggression, often reflecting family-of-origin scripts carried into adulthood. By contrast, “*I-statements*” (“I feel dismissed when decisions are made too quickly”) preserve epistemic agency: they root conflict in personal perspective without stripping the other of credibility. The rhetorical form becomes an epistemic lever, either affirming the other as a participant in dialogue or downgrading them to the role of defendant.

Context matters as much as wording. DiGiovanni, Gresham, Yip-Bannicq, and Bolger (2024) show that relational conflict often intensifies around stressors, peaking in anticipation and lingering afterwards. Under strain, couples are more likely to default to accusatory rhetoric, treating disagreement as evidence of disloyalty. The same dispute framed during calmer moments — “I see this differently, can we talk it through?” — may remain epistemic; framed under pressure — “You don’t care what I think” — it becomes relational assault. Stress amplifies the stakes of rhetoric, tilting dialogue toward either solidarity or rupture.

In *Re-founding Psychology as Epistemic Psychology*, I argue that rhetoric is not cosmetic but constitutive: it is the **grammar of authority and recognition** (Kahl, 2025f). An imperative forecloses dialogue (“Stop being unreasonable”); a question sustains autonomy (“What makes you see it that way?”). Language, in this sense, is not ornament but architecture, determining whether a partner is treated as a collaborator or subordinated as a suspect voice.

The stakes extend beyond communication style. Accusatory rhetoric activates physiological stress responses, elevating cortisol and sustaining defensive postures. Affiliative rhetoric — acknowledgement, humour, gentle touch — can buffer stress, preserving a sense of belonging even in sharp disagreement. How words are chosen thus reaches into the body, shaping not only whether conflict escalates but how it is carried somatically.

Integration of these insights shows that rhetoric does more than colour disagreement; it structures its epistemic fate. Phrasing can convert a legitimate divergence of perspective into relational subjugation, transforming a potential site of growth into a transaction where credibility is rationed and dissent penalised. Rhetoric, in short, is not surface but scaffolding.

When such rhetorical downgrading is no longer occasional but systematic, it crosses a threshold into coercion. This is the terrain of gaslighting, where conflict language is weaponised to disqualify the partner's perception altogether — the subject of the next section.

6.3 Gaslighting as epistemic coercion

Gaslighting is among the most destructive forms of relational conflict because it attacks the conditions of knowing themselves. Sweet (2019) shows that it is not merely a psychological manipulation but a sociological phenomenon, grounded in cultural stereotypes that depict women as irrational or oversensitive. These tropes are mobilised in intimate life to destabilise a partner's credibility, ensuring that dissent is not only dismissed but recoded as delusion.

Qualitative research underscores this dynamic. Klein, Li, and Wood (2023) report that survivors of gaslighting in romantic relationships describe a progressive erosion of self-trust: memories blurred, perceptions doubted, and confidence in their own judgement steadily undermined. Klein, Wood, and Bartz (2025) formalise this into a theoretical framework, treating gaslighting as a patterned epistemic injustice that systematically disqualifies testimony. March, Kay, Dinić, Wagstaff, Grabovac, and Jonason (2025) add empirical precision, finding that the endorsement of gaslighting tactics correlates with dark-triad traits, especially psychopathy and Machiavellianism. Gaslighting is thus not incidental but a structured reorganisation of the epistemic economy of the relationship.

Its mechanisms are concrete and familiar. A partner insists "That never happened" in response to a remembered slight; reframes protest as pathology with "You're too sensitive"; or appeals to fabricated consensus — "Everyone agrees with me, not you." Each instance converts epistemic disagreement ("this is how I experienced it") into relational subjugation ("your experience is defective"). What should have been a divergence of perspective is transfigured into an indictment of the partner's very capacity to know.

Contextual strain heightens this vulnerability. DiGiovanni, Gresham, Yip-Bannicq, and Bolger (2024) show that relational conflict intensifies around external stressors, peaking before and persisting afterwards. Under such pressure, gaslighting finds fertile ground: fatigue and uncertainty blunt epistemic confidence, making it easier to persuade a partner that "you're just stressed" or "you don't know what you're saying." Stress becomes a lever for disqualification, weaponising fragility at precisely the moment when recognition is most needed.

The psychiatric sequelae are severe. Survivors often present with anxiety, depressive symptoms, hypervigilance, and in some cases trauma-like responses marked by dissociation or intrusive doubt. At the core lies an epistemic injury: the collapse of trust in one's own perception and memory. Where conflict should cultivate resilience, gaslighting corrodes the self's epistemic scaffolds, leaving the victim dependent on the gaslighter for validation of reality.

From the perspective of epistemic injustice, gaslighting is testimonial disqualification enacted as relational coercion (Fricker, 2007). From the perspective of Epistemic Clientelism Theory, it is clientelism at its most predatory: recognition is granted only when the victim renounces their own perception and adopts the imposed narrative. The partner is reduced from co-knower to subordinate subject, their autonomy captured by coercive recognition.

If gaslighting represents the collapse of epistemic conflict into coercive subjugation, the task of intimate ethics is to safeguard conflict itself. To preserve autonomy, couples must learn to frame disagreements as dignifying events rather than disqualifying verdicts — a fiduciary responsibility explored in the next section.

6.4 Safeguarding epistemic conflict

If gaslighting exemplifies the collapse of disagreement into coercion, the constructive task is to show that conflict need not be destructive. **Epistemic conflict is indispensable:** it is the crucible in which perspectives are tested, understanding expanded, and mutual recognition deepened. What undermines intimacy is not conflict itself but the absence of scaffolds that allow conflict to remain epistemic rather than degenerating into relational contest.

In *Directors' Epistemic Duties and Fiduciary Openness*, I argue that fiduciary responsibilities extend wherever one party holds epistemic sway over another (Kahl, 2025c). Intimate partners occupy precisely this space: they are custodians of each other's epistemic confidence, bound to safeguard rather than exploit it. *The Silent Shadows* presses this further, showing how silencing often occurs not through overt denial but through subtle refusals to engage, leaving autonomy hollowed out by neglect (Kahl, 2025i). These works frame intimacy as a fiduciary–epistemic relationship where duties of loyalty and candour demand that dissent be honoured as contribution, not punished as betrayal.

Empirical research suggests how these duties can be embodied. Jakubiak and Feeney (2019) found that affectionate touch during conflict buffered stress and preserved relational well-being. A partner's hand squeezed in the midst of a heated argument can signal, wordlessly, that disagreement does not imperil belonging. Shrout, Renna, Madison, Malarkey, and Kiecolt-Glaser (2023) add that positive communication patterns — humour, acknowledgement, responsive listening — not only foster resilience in the relationship but protect the immune system itself. Conflict safeguarded epistemically thus sustains not only voice and trust but the body's integrity.

The therapeutic setting offers a close analogue. In psychotherapy, ruptures in the working alliance are inevitable; what matters is repair. Successful repair reaffirms the patient's epistemic authority, demonstrating that autonomy can survive disagreement. Intimate partnerships require the same fiduciary scaffolding: recognition must be non-negotiable even when perspectives collide.

Integration of these insights recasts conflict as a **fiduciary responsibility**. To safeguard epistemic conflict is to pledge that disagreement will not cost credibility, that voice will not be taxed by loyalty, and that belonging will not be collateralised in the pursuit of truth. Properly upheld, these commitments transform conflict from a liability into a resource, ensuring that autonomy is not diminished but secured.

The next chapter develops this fiduciary–epistemic framework in full, showing how intimacy can be restructured into partnerships governed not by conditional recognition but by duties of care, loyalty, and epistemic candour.

7. Fiduciary–Epistemic Framework for Intimacy

7.1 From fiduciary law to intimacy

Fiduciary law offers one of the clearest models of how power should be exercised under conditions of dependence. Fiduciaries — trustees, guardians, directors — are not free to pursue their own interests; they are bound to use their discretion for the benefit of those who rely on them. Frankel (2011) stresses that fiduciary relationships arise precisely where one party is vulnerable. Smith (2014) and Miller (2014) extend this view by

showing that fiduciary obligations of care, loyalty, and candour are justified by structural asymmetry: the beneficiary lacks information or control and must entrust their wellbeing to another.

In *Directors' Epistemic Duties and Fiduciary Openness*, I argued that this logic applies not only to money or governance but also to knowledge: directors wield informational and interpretive power that stakeholders cannot easily verify, and so bear epistemic duties to protect trust rather than manipulate it (Kahl, 2025c). Power exercised over knowledge is fiduciary in nature because it shapes the conditions under which others can act and decide.

The same architecture is present in intimate life. Partners continually exercise discretionary power over one another's epistemic agency: they validate or dismiss perceptions, recognise or ignore testimony, co-construct or contest shared memories. A simple phrase — "I believe you" — can restore a partner's confidence in their own perception; another — "You imagined it" — can hollow it out. Intimacy magnifies these dynamics because dependence is unavoidable: in moments of stress or conflict, one partner is often at the mercy of the other's recognition.

This is not only a legal or philosophical analogy but one already visible in psychiatry. The therapeutic alliance thrives because clinicians accept a fiduciary role: they safeguard the patient's self-trust, even when challenging or probing difficult experiences. Recognition in therapy, as in intimacy, is not a luxury but a scaffold for resilience.

The fiduciary model therefore clarifies what ordinary accounts of intimacy obscure: love is not merely an emotion but a form of stewardship. To love is to take responsibility for another's epistemic dignity, to hold their dependence as trust rather than leverage. The next step is to specify the concrete duties that give such stewardship shape — care, loyalty, and candour.

7.2 Duties of care, loyalty, and candour

If intimacy is fiduciary in structure, then its integrity depends on whether the asymmetries it creates are used to preserve or to corrode autonomy. Fiduciary law distils this responsibility into three core duties — care, loyalty, and candour. Transposed into intimate life, these duties articulate how epistemic dependence can be dignified rather than exploited. As Marková (2025) notes, trust and authority are not separable domains but interdependent: trust sustains authority, while authority structures the scope of trust. This reciprocity, while generative, also renders both vulnerable to corruption. Joseph Raz's (1986) service conception sharpens the point: authority is justified only insofar as it helps its subjects better conform to reasons already applying to them. Applied to intimacy, this means that asymmetry is defensible only when it enables the dependent partner to live more fully in accordance with their own reasons — never when it reduces them to compliance. The fiduciary-epistemic framework thus reconfigures reciprocity as responsibility: authority must be exercised in ways that safeguard, rather than erode, the epistemic standing of those who depend upon it.

Care means tending to a partner's epistemic vulnerability. This requires more than listening; it is the act of upholding testimony, reinforcing memory, and treating perception as credible until compellingly contested. To respond with 'I hear you' rather than 'you're imagining things' is not a courtesy but an epistemic obligation. Shrout, Renna, Madison, Malarkey, and Kiecolt-Glaser (2023) show that couples who sustain constructive communication not only report greater satisfaction but also demonstrate stronger immune function, suggesting that epistemic care protects both the relational and biological fabric of intimacy.

Loyalty entails epistemic solidarity. It is the refusal to instrumentalise a partner's dependence, to twist their words for advantage, or to withhold recognition as a bargaining chip. Loyalty does not demand agreement, but it requires assurance that dissent will not be punished with withdrawal of credibility. Jakubiak and Feeney (2019) illustrate this in embodied form: affectionate touch during conflict buffered stress, signalling that belonging remained intact even when views diverged. In epistemic terms, loyalty affirms: 'Your voice is safe with me, even against mine.'

Candour is the duty of truthfulness and transparency. Without candour, silence masquerades as peace while autonomy is hollowed out. In *The Silent Shadows*, I showed how subtle silencing — withholding acknowledgement, evading uncomfortable truths — erodes epistemic trust (Kahl, 2025i). Pettit, Hellwig, Costello, Hunt, and Allen (2024) add that certain rhetorical forms, such as accusatory 'you-talk,' exacerbate relational aggression, whereas perspective-taking language sustains recognition. Candour in intimacy means speaking truth in ways that sustain credibility, ensuring that the other is never left navigating shadows.

Psychiatry offers a parallel. In therapy, ruptures in the alliance are inevitable; what matters is repair, where clinicians model care, loyalty, and candour by validating perception, maintaining solidarity, and naming difficulties without withdrawal of recognition. These fiduciary gestures rebuild epistemic trust, showing how dependence can be dignified rather than disfigured.

Together, these duties delineate a fiduciary–epistemic ethic of intimacy. Care secures voice, loyalty ensures solidarity, and candour preserves transparency. They establish the scaffolding by which dependence can coexist with autonomy. The next step is to see how these duties reframe love itself — not as possession or contract, but as fiduciary trusteeship.

7.3 Love as fiduciary responsibility

If epistemic clientelism describes the trading of autonomy for affection or stability, then the fiduciary alternative reconceives intimacy as trusteeship. Love, in this register, is not possession nor contract but a form of stewardship: the partner entrusted with epistemic power bears responsibility for protecting, not hollowing out, the other's agency.

This reframing draws from epistemic psychology's grammar of recognition and authority. As I argued in *Re-founding Psychology as Epistemic Psychology* (Kahl, 2025f), recognition is the medium through which autonomy and dependence are negotiated. Yet recognition can be corrupted, collapsing into a barter system in which credibility is granted only in exchange for compliance. Fiduciary love resists this drift. It treats autonomy as something to be safeguarded, not taxed; dissent as a contribution to dialogue, not as grounds for disqualification. A simple example makes this clear: when two partners remember an event differently, fiduciary love says, "Your memory matters alongside mine; let us piece this together," rather than "You must be misremembering."

Fricker's (2007) account of testimonial injustice sharpens the point. To dismiss a partner's perception is not just an emotional slight but a breach of epistemic duty — a failure to uphold their standing as a knower. A fiduciary framing grounds Fricker's virtue-theoretic remedy normatively: partners owe each other epistemic virtue not merely as aspiration but as responsibility. Raz's (1986) service conception of authority clarifies the standard further: authority is legitimate only when it helps others better conform to their own reasons. Transposed to intimacy, this means that the authority each partner inevitably wields is justified only when it enables the other to live more fully in accordance with their own epistemic agency — never when it coerces them into compliance.

A micro-example makes this principle tangible. Imagine one partner struggling to recall a shared event, uncertain whether their memory is trustworthy. In a clientelist frame, the other might impose their version — “No, that’s wrong, it happened this way” — leaving the first partner dependent and diminished. In a fiduciary frame guided by Raz’s service principle, the stronger memory is offered not as replacement but as support: “I think it was this way, but your recollection matters — let’s reconstruct it together.” Here, authority serves autonomy rather than erasing it, strengthening the other’s confidence in their capacity to know.

Cross-cultural research underscores the stakes. In Chinese families, filial piety often links obedience with love, training young people to equate deference with belonging (Chen & Wu, 2023; Wang & Chen, 2023). This conditional loyalty exemplifies clientelist intimacy, where autonomy is bartered away to secure care. A fiduciary conception of love points in another direction: it seeks unconditional recognition, where loyalty is redefined as guardianship of epistemic dignity rather than obedience.

Recent scholarship echoes this intuition in everyday terms. Gunawan, Sari, Krisnafitriana, and Nugraha (2025) report that young people increasingly frame love as responsibility — a readiness to carry duties of care, integrity, and accountability into relationships. They do not use fiduciary language, but their intuitions align: love is not merely romance or passion, but responsibility for the other’s flourishing. Schaubert (2009), reading Hume, adds philosophical depth: we evaluate others not by fleeting passions but by the constancy of their motives. Love acquires moral weight when it shows durable fidelity to the other’s dignity. Fiduciary love, in this sense, is a settled orientation — a stable motive to safeguard epistemic agency over time.

Psychiatry provides a confirming analogue. In therapy, the clinician’s role is fiduciary: to challenge without disqualifying, to correct without humiliating, to ensure that rupture never extinguishes recognition. Intimacy requires the same scaffolding. Partners who hold power over each other’s perceptions must act with the same disciplined responsibility, recognising that agency can be either nurtured or corroded in each exchange.

The claim here is clear: love entails stewardship. To love is to take responsibility not only for another’s safety or affective well-being but also for their epistemic dignity. Where Raz grounds authority in service, the Intimate Epistemic Oath grounds love in fiduciary responsibility.

7.4 The Intimate Epistemic Oath

If intimacy is fiduciary in structure, it requires not only theoretical reframing but explicit normative articulation. Just as physicians swear to safeguard the vulnerable through the Hippocratic Oath, and as I have argued for academia in *Toward Academia’s Own Hippocratic Oath* (Kahl, 2025), intimate life too can be oriented by principled commitments. The aim is not legal enforceability but moral scaffolding: a set of guideposts for how partners should hold each other’s epistemic dependence.

The *Intimate Epistemic Oath* can be expressed in simple, declarative promises:

- ➡ I will not exploit my partner’s epistemic dependence, especially in moments of stress, trauma, or imbalance.
- ➡ I will treat dissent as contribution, never as betrayal.
- ➡ I will sustain my partner’s credibility even when we disagree.
- ➡ I will uphold their testimony as presumptively trustworthy unless clearly disproven.

➡ **I will ensure that belonging is never collateral for epistemic compliance.**

These commitments make visible what fiduciary duties of care, loyalty, and candour require in practice. They are most urgent when asymmetries are sharp — when one partner is weakened, overwhelmed, or reliant on the other's recognition. In such moments, the oath functions as a check against the quiet drift into clientelism, reminding the stronger party that their role is not to dominate but to steward.

Examples illustrate its scope. When a partner recalls an event differently, the oath prohibits easy dismissal: the task is to co-construct memory, not to disqualify it. In conflict, the oath forbids withholding affection as punishment for dissent: belonging cannot be weaponised. In stress, the oath demands candour: silence cannot masquerade as peace if it leaves the other adrift in uncertainty.

This fiduciary framing also satisfies Raz's (1986) criterion for legitimate authority. Authority is justified only if it helps others better conform to their own reasons. Applied to intimacy, this means that a partner's inevitable authority — over memory, recognition, or belonging — must serve the other's epistemic agency, never override it. The oath crystallises this requirement, translating the abstract service principle into lived commitments of care, loyalty, and candour.

The ethos is not foreign to practice. Psychiatry already embodies similar principles in ethical codes and the therapeutic alliance: clinicians commit to safeguarding testimony, preserving recognition in rupture, and maintaining credibility even when correction is required. The oath thus resonates with existing fiduciary practice, anchoring intimacy within a broader tradition of professional and ethical responsibility.

By crystallising intimacy as trusteeship, the oath resists epistemic clientelism and gestures toward a post-clientelist form of love. It is an explicit counterweight to the corrosive dynamics charted earlier: to the intimate gaslighting that renders a partner's perception inaudible, and to the proverbial scripts that naturalise silence as loyalty. Where those grammars embed epistemic clientelism, the oath offers an alternative grammar of unconditional recognition, making the preservation of epistemic voice the non-negotiable ground of intimacy.

The next step is to examine these parallels with psychiatry more directly, showing how fiduciary recognition operates as a scaffold for healing as well as for intimacy.

7.5 Psychiatric resonance: therapeutic alliance as fiduciary scaffold

The fiduciary-epistemic model of intimacy is not speculative; psychiatry already enacts its principles in practice. The therapeutic alliance is founded on unconditional recognition: the patient's voice is received as credible, even when its content is troubling or fragmented. When trust falters, as in rupture moments, effective therapy depends on repair — the deliberate reknitting of trust so that dependence is not left dangling. This cycle of rupture and repair exemplifies fiduciary safeguarding: recognition is not optional, but must be restored when broken.

Therapy is the mirror-opposite of gaslighting. Gaslighting systematically disqualifies testimony, teaching the victim to distrust their own perception. Therapy systematically reinstates testimony, validating perception as a starting point for inquiry. Klein, Wood, and Bartz (2025) describe how survivors of gaslighting lose epistemic confidence; clinicians invert this by restoring credibility to the patient's narrative, even while helping to refine or reinterpret it. In this sense, psychiatry offers a living demonstration of fiduciary love: to correct without humiliating, to challenge without silencing.

Clinical models give this scaffolding form. Bordin's (1979) theory of the working alliance identifies three elements — agreement on goals, agreement on tasks, and the bond — all of which rely on epistemic trust. Attachment-informed therapies emphasise the clinician's role in modelling secure dependence: recognition is constant, even when conflict or transference emerges. Cognitive-behavioural approaches rely on candour: transparent explanations of techniques and rationales that demystify the process and preserve the patient's epistemic agency. Here candour is not ornamental but structural, preventing silence or concealment from corroding trust.

Psychiatric practice also highlights the epistemic dimensions of trauma, depression, and anxiety. Trauma recovery involves restoring trust in memory and perception. Depression often manifests as a collapse of self-recognition, an internalised conviction of epistemic inferiority. Anxiety thrives when testimony is doubted or ignored, amplifying vigilance. Therapy treats these conditions not simply as affective disorders but as epistemic injuries — breaches in self-trust and testimonial standing. By repairing them, clinicians enact fiduciary duties of care, loyalty, and candour in real time.

Cross-cultural psychiatry reinforces this point. In East Asian contexts, family-centred therapeutic approaches emphasise relational harmony and interdependence, yet still rely on fiduciary scaffolds: credibility is protected within the family group, and clinicians act as trustees for restoring mutual recognition. Different cultural idioms embody the same fiduciary logic: dependence dignified rather than exploited.

As I argued in *Cognitive Dissonance as Epistemic Event* (Kahl, 2025b), dissonance is not mere discomfort but a crucible where autonomy and submission are weighed. Therapy provides the scaffolding for dissonance to be resolved with dignity: the patient learns that disagreement does not entail disqualification, and that uncertainty can be borne without forfeiting recognition.

The lesson is clear: psychiatry validates the fiduciary–epistemic model in practice. The therapeutic alliance shows that care, loyalty, and candour are not sentimental ideals but operational duties that can heal epistemic injuries and restore agency. If clinical practice can institutionalise these principles under conditions of extreme vulnerability, then households too can learn to design their relationships around them. Chapter 8 develops this claim, showing how fiduciary scaffolds can be operationalised in everyday intimate life.

8. Toward Epistemic Agency in Intimate Life

8.1 Cultivating agency: dissonance as resilience

Epistemic agency is not an endowment but a skill — a capacity that must be exercised to stay alive. If left unpractised, it grows brittle; if treated only as fragile, it risks breaking under strain. In intimate life, the proving ground of agency is dissonance: those moments when perspectives diverge, memories clash, or values conflict. The challenge is not whether dissonance will occur, but whether it is suppressed or transformed into resilience.

In *Cognitive Dissonance as Epistemic Event* I argued that dissonance is not merely an affective irritation, as Festinger framed it, but a crucible in which autonomy and submission are weighed (Kahl, 2025b). Each episode of dissonance is a test: will the individual defer to conditional recognition, or insist on standing as a credible knower? In *Speaking into Dissonance*, I further showed that dissonance, when embraced rather than avoided, can

generate plurality and resilience (Kahl, 2025g). Language learning provides a vivid illustration: the stumbles, hesitations, and small humiliations of speaking a foreign tongue rehearse precisely the kind of discomfort that, when carried with courage, strengthens agency. What learners experience in classrooms and conversations is analogous to what partners and families can cultivate in daily disagreements: the courage to persist in agency amidst discomfort. As Nieminen and Ketonen (2024) argue, epistemic agency is not an abstract faculty but a socially embedded practice — one that is nurtured or eroded depending on how conflicts are scaffolded.

The danger of neglecting this training is visible in institutional contexts. In *How Institutional Corruption Captured UK Higher Education Journalism* I demonstrated how entrenched patterns of epistemic clientelism corrode agency: dissent is punished, compliance rewarded, and over time autonomy becomes unthinkable (Kahl, 2025m). The same danger exists in families. If disagreement is always punished — a child dismissed for questioning a parent, or a partner frozen out for raising objections — then the household becomes a training school for submission.

The alternative is to reconceive dissonance as practice. Couples and families can treat disagreement as an arena of exercise rather than a breach. A couple disagreeing over financial priorities can preserve belonging by framing the issue as negotiation rather than betrayal. A child resisting a parent’s career expectations can be heard without the bond being made conditional on compliance. Such rehearsals build resilience: each safe encounter with dissonance strengthens confidence that autonomy can survive intimacy.

This intuition can be formalised in what I call the *Kahl Model of Epistemic Dissonance* (KMED). In simplified form, epistemic autonomy (EA) evolves across micro-events according to:

$$EA_{t+1} = EA_t + \alpha(1 - EA_t) - \beta EA_t$$

where $\alpha > 0$ and β small represent fiduciary scaffolding (autonomy strengthens), while $\alpha < 0$ and larger β capture clientelist suppression (autonomy collapses). The contrast can be visualised in a simple trajectory plot: under fiduciary scaffolds, autonomy stabilises at high levels; under clientelist regimes, it decays toward fragility.

Psychiatry shows how this can work. Bordin’s (1979) classic model of the working alliance identifies goals, tasks, and bond as its three pillars, all dependent on epistemic trust. When rupture occurs, effective therapists name the break, acknowledge the patient’s perception, and repair the bond — demonstrating that conflict need not end in silence or exile. Trauma-focused therapies operate in similar fashion: rather than avoid painful dissonance, they help patients face it within a safety net of recognition. This model is instructive for households. Partners can practise similar strategies: explicitly naming moments of hurt, reaffirming respect, and restoring credibility even when disagreement persists.

Variety in metaphor is important here. Dissonance can be scaffolded, but it can also be seen as a safety drill — a rehearsal of difference under conditions where recognition will not be withdrawn. By repeating such drills, couples and families inoculate themselves against the slide into clientelism.

The implication is that resilience cannot be left to chance. Households must be consciously designed to create spaces where disagreement is survivable. Appendix A develops the full KMED with additional state variables (dissonance tolerance and dependence), simulation code, and visualisations. Together, these formal tools reinforce the claim that resilience is not merely aspirational but modelable: autonomy thrives where recognition scaffolds dissonance into strength rather than silence.

8.2 Ecological design of households: pluralism as safeguard

If epistemic agency requires rehearsal, as the previous section argued, then it also depends on the environment in which such rehearsal unfolds. Households are not merely private spaces of affection and routine but epistemic ecologies: webs of voices, roles, and practices that determine whether recognition circulates or is monopolised. The task is to design households that nurture plurality rather than enforce single-voice dominance.

Helen Longino, in *The Fate of Knowledge*, showed that objectivity in science arises not from the isolation of the lone thinker but from interactional diversity — the presence of multiple perspectives that expose bias, test assumptions, and widen the evidential base (Longino, 2002). A similar logic applies in households. When only one member's voice is treated as authoritative — the father's decree, the mother's "final say," the eldest's memory — the epistemic ecology narrows, reducing the family to a regime of deference. By contrast, when multiple voices are encouraged and trusted, households become resilient communities where bias is checked and agency is cultivated.

Three design principles flow from this. First, households should welcome multiple interpretive frameworks: different accounts of the same event, divergent moral judgements, or alternative priorities can coexist without being disqualified. Second, they can institutionalise rituals of voice — family meetings where decisions are discussed, story-sharing practices that allow each member's perspective to be heard, or explicit conflict dialogues that normalise dissent. Third, they must resist epistemic monopoly: authority should never be grounded solely in hierarchy, age, or gender, lest pluralism collapse into obedience.

Concrete examples illustrate this. Consider a family deliberating over a teenager's choice of university. In a monolithic ecology, the parent's preference dominates, and the child's voice is tolerated only if it aligns. In a pluralist ecology, the child's aspirations, the parent's concerns, and even siblings' perspectives are brought into deliberation, not as token gestures but as credible contributions. The result is not guaranteed consensus but a recognition that each voice carries epistemic weight.

Cross-cultural studies make these tensions visible. Lou, Lalonde, and Giguère (2012) describe bicultural young adults negotiating whether to move out of the family home, torn between filial piety and the desire for independence. Their decision-making reveals the costs of households that suppress pluralism: autonomy becomes equated with disloyalty. Blair and Liu (2020), studying Chinese-American adoptees, show how hybrid families develop co-cultural communication strategies to balance ethnic belonging with individual expression. These cases highlight that pluralist households do not eliminate conflict but provide frameworks for navigating competing norms without silencing.

A well-designed household, then, functions as a miniature epistemic community. Its strength lies not in uniformity but in diversity: pluralism becomes the buffer against epistemic clientelism, ensuring that dependence does not collapse into submission. Yet pluralism is fragile. It demands not only structures that distribute voice but also the courage of individuals to speak when silence is safer. The next section turns to this theme of resistance and nonconformity, exploring how dissent within households can be protected as the lifeblood of agency.

8.3 Resistance and nonconformity: courage in dissent

Pluralism in households, as the previous section argued, requires institutional design. Yet structures alone cannot guarantee agency. For pluralism to live, individuals must be willing to stand against the gravitational

pull of conformity. Agency in intimate life therefore demands courage — the courage to resist when silence promises safety but at the cost of selfhood.

Karikó (2009) reminds us that education can be an antidote to conformity by cultivating habits of nonconformist rebellion. Classrooms that encourage students to question authority or defend minority opinions equip them with resilience for a world structured by compliance. Households can mirror this role. A parent who actively invites challenge, or a partner who welcomes disagreement, teaches that dissent is not disloyalty but fidelity to truth. In this way, rebellion is not a breakdown of order but its renewal.

The psychology of conformity shows why this courage is indispensable. Asch's (1956) line-judging experiment revealed that people will deny their own perception when the group stands against them; Milgram's (1974) obedience study showed how ordinary individuals inflict harm when commanded by authority. The family table can become Asch's laboratory, where a child swallows her perception to avoid ridicule, or Milgram's theatre, where a partner obeys in silence to escape sanction. These analogues make clear that the household is not immune to the dynamics of conformity and obedience — and that explicit counter-norms are required to resist them.

Philosophical support comes from Medina's *The Epistemology of Resistance* (2013). Medina argues that resistant imagination — the capacity to envision how things might be otherwise — is a virtue in oppressive contexts. Within households, this imagination allows a child to picture a family in which questioning does not cost love, or a partner to imagine intimacy that sustains voice even in conflict. Imagination here is not escapism but practice: rehearsing alternative futures until they can be lived.

A micro-example illustrates the stakes. Consider a daughter in a religious household who questions her parents' interpretation of a sacred text. In a clientelist ecology, her doubt is treated as betrayal, and she is tacitly exiled from belonging. In a fiduciary ecology, her doubt is welcomed as contribution, and the bond is reaffirmed despite difference. The same act of resistance becomes either the beginning of silence or the deepening of intimacy, depending on whether recognition holds.

The practical task is to model and protect such nonconformity. Parents can demonstrate constructive dissent with each other in front of children, showing that disagreement does not fracture bonds. Partners can explicitly assure one another that dissent will not be used as a weapon of withdrawal. When households protect nonconformity, they inoculate themselves against epistemic clientelism.

Resistance, then, is not opposition to intimacy but its condition. A household without dissent is not secure but brittle, sustained by compliance alone. A household that protects resistance is one in which intimacy matures: where dependence is dignified because autonomy is never silenced.

8.4 Post-clientelist intimacy: fiduciary scaffolds in practice

If intimacy is often disfigured by clientelism, its promise lies in a different horizon: one where dependence is neither disguised as autonomy nor collapsed into fusion, but dignified through fiduciary scaffolds. Post-clientelist intimacy does not deny asymmetry; it acknowledges that dependence is inevitable. The question is whether that dependence is structured by conditionality and coercion or by care, loyalty, and candour.

Building on Chapter 7, these fiduciary duties can be operationalised in daily life. Care means responding to epistemic vulnerability not with dismissal but with attentive validation. Loyalty means sustaining the partner's standing as a credible knower even in the heat of conflict. Candour means a commitment to openness

— naming wounds, telling truths — rather than allowing silence or concealment to corrode recognition. These commitments, crystallised in the Intimate Epistemic Oath, supply a normative compass for households seeking to preserve dignity in dependence.

Concrete practices show what this looks like. In conflict, a parent might say to a child, “I see you remember it differently, and I want to hear your version,” affirming voice even when disagreeing. Partners can maintain belonging across sharp disagreement by assuring each other, “Our bond does not depend on seeing this the same way.” Repair rituals adapted from therapy can include explicit naming of rupture (“I realise I dismissed you”), apology, explanation, and renewed commitment to honour testimony. These practices mirror clinical strategies for rebuilding trust but are no less applicable to domestic life.

Empirical evidence reinforces this model. Shrout, Renna, Madison, Malarkey, and Kiecolt-Glaser (2023) show that positive communication patterns protect not only relational but biological health, strengthening immune function. Jakubiak and Feeney (2019) demonstrate that affectionate touch during conflict reassures partners that belonging is intact, an embodied analogue of epistemic loyalty. These findings confirm that fiduciary intimacy is not utopian but grounded in measurable effects.

Yet obstacles remain. Structural patriarchy, cultural expectations of obedience, and authoritarian family codes can all resist fiduciary reform. The work of building post-clientelist intimacy is therefore not merely personal but political: it requires countering entrenched norms that equate dissent with betrayal and voice with rebellion.

This vision also generates a research agenda. Family law could incorporate fiduciary principles into custody and guardianship disputes, recognising that safeguarding a child’s testimony is as important as safeguarding material welfare. Psychiatry could refine therapeutic models of rupture and repair as templates for domestic practice. Developmental psychology could investigate how children raised in fiduciary households develop not only resilience but also creativity, dissenting courage, and epistemic trust.

The normative horizon is clear: dependence in intimate life cannot be wished away, but it need not devolve into clientelism. Fiduciary intimacy reframes dependence as dignified — a condition where asymmetry becomes the basis for trust rather than a pretext for subjugation. What is at stake is larger than family life: households become the crucibles in which epistemic psychology itself is tested, rehearsed, and carried into public life. As I argued in *Toward a City of Free Thinkers*, emancipation requires deliberately designed spaces that safeguard plurality and preserve epistemic voice (Kahl, 2025k). Families, restructured as fiduciary–epistemic communities, can be the first of these spaces — miniature cities of free thinkers — where autonomy and recognition are cultivated for both private flourishing and public resilience. The Conclusion will take up this claim, situating intimacy as the foundation of epistemic psychology writ large.

9. Conclusion

9.1 Synthesis: Intimacy as crucible of epistemic psychology

The argument of this work converges on a simple but far-reaching claim: intimate life is not peripheral to epistemic agency but its primary site of formation. What is rehearsed in families and partnerships — the ways

recognition is given or withheld, dissent punished or welcomed — becomes the template by which institutions and societies later handle knowledge, authority, and autonomy.

The chapters have traced this arc. Chapters 2 and 3 showed that epistemic clientelism is first cultivated at home: a child learns to trade credibility for affection or protection long before such bargains are institutionalised. Chapters 4 and 5 revealed how these micro-patterns scale upward into cultural and political orders, from proverbs that naturalise deference to authoritarian parenting that instils submission. Chapters 6 and 7 highlighted intimacy as the most formative site of epistemic practice, where conflict becomes either silencing or growth, and where fiduciary framing marks the ethical pivot between domination and stewardship. Chapter 8 looked forward, showing how households can be designed as epistemic ecologies — not monolithic regimes but small communities of recognition, where pluralism and dissent are safeguarded.

A simple vignette illustrates the point. Imagine a child contradicting a parent’s memory at the dinner table. In one household, dissent is silenced and belonging made conditional on obedience; in another, the parent acknowledges the child’s version, affirming voice even in difference. That moment does not remain private: it shapes how the child will later face teachers, employers, or states — with either timidity or resilience.

This fragility is central. Intimacy can incubate autonomy, but it can just as easily deform it. To understand epistemic life, we must begin not with the state or the university but with the household — the matrix where recognition, authority, and dissonance are first rehearsed.

9.2 Normative claim: Love entails fiduciary responsibility for epistemic agency

If intimacy is the ground of epistemic life, then love must be understood in fiduciary terms. Love is not possession, nor contract, nor barter. It is trusteeship: in the asymmetries of intimate life, each partner inevitably holds power over the other’s epistemic agency — the power to validate or disqualify testimony, to dignify or diminish dissent. With that power comes responsibility: attentiveness, fidelity, and openness.

The Intimate Epistemic Oath crystallises these responsibilities in concrete pledges: not to exploit dependence, not to make belonging conditional on epistemic compliance, and to treat dissent as contribution rather than betrayal. In this way, fiduciary love is not an abstraction but a daily discipline.

A micro-example illustrates the point. One partner misremembers a shared event. In a clientelist frame, the other withdraws credibility, leaving the first unsure of their own perception. In a fiduciary frame, the reply is different: “I recall it otherwise, but your perspective matters alongside mine.” Here Raz’s (1986) service conception of authority provides the standard: authority is legitimate only when it helps others better conform to their own reasons. Applied to intimacy, the stronger memory scaffolds the weaker one without erasing it — authority serving autonomy rather than replacing it. One response corrodes epistemic standing; the other preserves it even in disagreement.

This claim draws on a clear lineage. Fricker’s (2007) account of testimonial injustice shows how credibility deficits corrode epistemic life. Medina (2013) highlights the virtue of resistant imagination in countering silencing. Fiduciary theorists such as Frankel (2011), Smith (2014), and Miller (2014) articulate duties of care, loyalty, and candour in contexts of vulnerability and trust. Raz (1986) extends this lineage by grounding authority in service rather than domination. This paper integrates these traditions and reinterprets them for the intimate sphere, making explicit what has long remained tacit: that love entails fiduciary responsibility for epistemic agency.

It may seem strange to speak of love in fiduciary terms, borrowing the idiom of law. Yet this language has the merit of clarity and accountability. Affection may ebb, passion may fluctuate, but fiduciary trusteeship captures what love tacitly demands: a durable responsibility to safeguard the other's epistemic dignity.

The normative claim therefore unites the three contributions set out earlier. For epistemic psychology, fiduciary love reframes dissonance as resilience rather than fear. For psychiatry, it echoes the fiduciary logic of rupture and repair in the therapeutic alliance. For governance, it demonstrates that fiduciary ethics are not confined to institutions but extend into the most private of bonds. The distinctive contribution of this work is thus explicit: love entails fiduciary responsibility for epistemic agency.

9.3 Research agenda: Developmental psychology, psychiatry, and family law

Recognising intimacy as epistemic opens urgent research trajectories across disciplines.

Developmental psychology. How do parental responses to dissent shape resilience? Imagine a study tracking children whose voices are validated in family discussions versus those silenced. Do the former become adults more resistant to authoritarianism? Longitudinal studies could test whether practising dignified dissonance at home correlates with reduced susceptibility to clientelism later in life.

Psychiatry. The working alliance between clinician and patient is already a fiduciary relation. Therapy can be seen as the inversion of gaslighting: where gaslighting corrodes testimony, therapy restores it. Trauma, too, is epistemic rupture, often experienced as the collapse of credibility. Recovery is epistemic repair — the restoration of confidence in perception and memory. Research could explore how fiduciary principles inform clinical ethics, making epistemic trust a central therapeutic goal.

Family law. Coercive control and gaslighting are gaining recognition in legal debates, yet their epistemic dimensions remain undertheorised. Future research should ask: can gaslighting be conceptualised as epistemic abuse? Should custody law treat parents as trustees of children's epistemic agency, obliged to safeguard not just welfare but voice? Such questions chart a new horizon for legal scholarship, exploring how epistemic dignity might be formally recognised and protected.

Together these domains sketch an interdisciplinary programme. Developmental psychology examines how agency is formed, psychiatry shows how it can be broken and repaired, and family law explores how it might be safeguarded. Philosophy provides the normative grammar that ties them together.

9.4 Broader implications: Intimacy and epistemic psychology as a discipline

The implications extend beyond relationships. What is at stake is the foundation of epistemic psychology as a discipline.

Epistemic psychology distinguishes itself from cognitive psychology, which studies the mechanisms of information processing, and from social epistemology, which theorises knowledge at the collective level. Its distinctive concern is with the conditions of autonomy and dependence, recognition and silencing, dissonance and resilience. It unites philosophy, psychology, and psychiatry under a shared lens, treating epistemic life as relationally formed and institutionally scaled. In this way, epistemic psychology integrates the insight that agency is socially embedded (Nieminén & Ketonen, 2024) with the recognition that trust and authority are

inseparable and fragile (Marková, 2025), offering a conceptual home where the private and the institutional can be theorised together.

Intimacy is its proving ground. Authority is first conferred at home, testimony first validated or denied, dissent first punished or rewarded. Schools and workplaces merely extend these patterns. A classroom that dismisses a pupil's contribution mirrors the household that silences dissent. Conversely, where households honour testimony and protect dissent, institutions inherit citizens resilient to silencing and open to plurality. As Nieminen and Ketonen (2024) argue, epistemic agency is not an abstract endowment but a socially embedded practice; households, then, are the first sites where such agency is either cultivated or corroded. And as Marková (2025) reminds us, trust and authority are interdependent: one sustains the other, but both are vulnerable to corruption. Households thus reveal, at the most granular level, how this reciprocity can either harden into clientelism or be recast as fiduciary responsibility.

The societal implications are clear. If households can be restructured as fiduciary–epistemic communities, then schools, workplaces, and states can follow. The intimate is political: injustice in families scales upward into fragility in public life, while dignity at home seeds democratic resilience. This continuity has been traced both in the processes of epistemic domestication, where silencing and recognition are patterned across households and institutions (Kahl, 2025e), and in authoritarian capture, where epistemic fragility at the micro level echoes in the vulnerability of protests and democratic institutions (Kahl, 2025h). As *The Epistemic Architecture of Power* makes clear, such fragility is sustained not only through coercion but through the systemic regulation of recognition and knowledge itself (Kahl, 2025n). Raz's (1986) service conception of authority provides the normative pivot: authority, whether familial or political, is legitimate only when it helps subjects better conform to their own reasons. Intimacy that rehearses fiduciary service thus lays the groundwork for institutions capable of resisting authoritarian capture. In a world marked by authoritarian resurgence, disinformation, and mental health crises, the urgency of this claim is evident.

The broader convergence is also evident. For epistemic psychology, intimacy provides the crucible for testing theories of autonomy, recognition, and dissonance. For psychiatry, it reveals how rupture and repair are epistemic as well as affective. For governance, it demonstrates that fiduciary responsibility is not confined to institutions but extends into the most private of bonds.

This final claim also resonates with my earlier analyses. In *The Silent Tree* I showed how silence and audibility shape epistemic life (Kahl, 2025j); in *The Silent Shadows* how illusion and muted dissent mirror Plato's Cave (Kahl, 2025i); and in *Lessons from the Hong Kong Unrest* how authoritarian fragility exploits these very vulnerabilities (Kahl, 2025h). Together with *The Epistemic Architecture of Power* (Kahl, 2025n), these works illuminate intimacy as the first stage of epistemic domestication — but also as the place where its reversal can begin. As I argued in *Toward a City of Free Thinkers*, emancipation requires deliberately designed spaces that preserve plurality and safeguard epistemic voice (Kahl, 2025k). Families, restructured as fiduciary–epistemic communities, can be the first of these spaces — miniature cities of free thinkers — where autonomy is forged, recognition safeguarded, and epistemic psychology itself comes into being. *The Intimate Epistemic Oath* crystallises this project, translating metaphor into practice by articulating the daily responsibilities through which post-clientelist intimacy can be secured — ensuring that dependence is dignified, never weaponised.

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Bibliography

Works by Kahl

- Kahl, P. (2025a). *Authoritarianism and the architecture of obedience: From fiduciary–epistemic trusteeship to clientelist betrayal*. Lex et Ratio Ltd. <https://doi.org/10.13140/rg.2.2.15123.34089>
- Kahl, P. (2025b). *Cognitive dissonance as epistemic event: Clientelism, bounded freedom, and the architecture of epistemic fear* (3rd ed.). Lex et Ratio Ltd. <https://doi.org/10.13140/rg.2.2.30632.43528>
- Kahl, P. (2025c). *Directors' epistemic duties and fiduciary openness: A cross-cultural and interdisciplinary framework for corporate governance* (2nd ed.). Lex et Ratio Ltd. <https://doi.org/10.13140/rg.2.2.28155.17449>
- Kahl, P. (2025d). *Epistemic clientelism theory: Power dynamics and the delegation of epistemic agency in academia* (3rd ed.). Lex et Ratio Ltd. <https://doi.org/10.13140/rg.2.2.27630.88642>
- Kahl, P. (2025e). *Foucault's dream: On the domestication of knowledge and epistemic subjugation*. Lex et Ratio Ltd. <https://pkahl.substack.com/p/foucaults-dream-on-the-domestication-of-knowledge-and-epistemic-subjugation>
- Kahl, P. (2025f). *Re-founding psychology as epistemic psychology: The science of autonomy and dependence under epistemic conditions: Dissonance, recognition, and authority as the grammar of social life*. Lex et Ratio Ltd. <https://doi.org/10.13140/rg.2.2.13825.72800>
- Kahl, P. (2025g). *Speaking into Dissonance: Foreign Language Learning, Cognitive Dissonance, and Epistemic Plurality*. Lex et Ratio Ltd. <https://doi.org/10.13140/rg.2.2.22256.93449>
- Kahl, P. (2025h). *Lessons from the Hong Kong Unrest: Authoritarian Capture and the Epistemic Fragility of Protest*. Lex et Ratio Ltd. <https://doi.org/10.13140/rg.2.2.27086.93768>
- Kahl, P. (2025i). *The silent shadows: Epistemic Clientelism and Plato's Cave*. Lex et Ratio Ltd. <https://doi.org/10.13140/rg.2.2.13579.96808>
- Kahl, P. (2025j). *The silent tree: Epistemic clientelism and the politics of sound*. Lex et Ratio Ltd. <https://doi.org/10.13140/rg.2.2.31320.56321>
- Kahl, P. (2025k). *Toward a city of free thinkers: From the precipice of knowledge to the horizons of emancipation* (2nd ed.). Lex et Ratio Ltd. <https://github.com/Peter-Kahl/Toward-a-City-of-Free-Thinkers>
- Kahl, P. (2025l). *Toward academia's own Hippocratic Oath: A proposal for fiduciary and epistemic accountability in higher education*. Lex et Ratio Ltd. <https://github.com/Peter-Kahl/Toward-Academias-Own-Hippocratic-Oath>
- Kahl, P. (2025m). *How institutional corruption captured UK higher education journalism*. Lex et Ratio Ltd. <https://github.com/Peter-Kahl/How-Institutional-Corruption-Captured-UK-Higher-Education-Journalism>
- Kahl, P. (2025n). *The epistemic architecture of power: How knowledge control sustains authority in social structures* (2nd ed.). Lex et Ratio Ltd. <https://doi.org/10.13140/rg.2.2.14628.54402>

Psychology

- Asch, S. E. (1956). Studies of independence and conformity: I. A minority of one against a unanimous majority. *Psychological Monographs: General and Applied*, 70(9), 1–70. <https://doi.org/10.1037/h0093718>

- Berns, G. S., Chappelow, J., Zink, C. F., Pagnoni, G., Martin-Skurski, M. E., & Richards, J. (2005). Neurobiological correlates of social conformity and independence during mental rotation. *Biological Psychiatry*, 58(3), 245–253. <https://doi.org/10.1016/j.biopsych.2005.04.012>
- Darnon, C., Doll, S., & Butera, F. (2007). Dealing with a disagreeing partner: Relational and epistemic conflict elaboration. *European Journal of Psychology of Education*, 22(3), 227–239. <https://doi.org/10.1007/BF03173423>
- Egan, L. C., Santos, L. R., & Bloom, P. (2007). The origins of cognitive dissonance: Evidence from children and monkeys. *Psychological Science*, 18(11), 978–983. <https://doi.org/10.1111/j.1467-9280.2007.02012.x>
- Festinger, L. (1957). *A theory of cognitive dissonance*. Stanford University Press.
- Guidetti, F., Carraro, L., & Castelli, L. (2017). An exploration of the differential effects of parents' authoritarianism dimensions on pre-school children's epistemic, existential, and relational needs. *Frontiers in Psychology*, 7, 2079. <https://doi.org/10.3389/fpsyg.2016.02079>
- Kağıtçıbaşı, Ç. (2007). *Family, self, and human development across cultures: Theory and applications* (2nd ed.). Routledge.
- Klein, W., Li, S., & Wood, S. (2023). A qualitative analysis of gaslighting in romantic relationships. *Personal Relationships*, 30(4), 1316–1340. <https://doi.org/10.1111/pere.12510>
- Klein, W., Wood, S., & Bartz, J. A. (2025). A theoretical framework for studying the phenomenon of gaslighting. *Personality and Social Psychology Review*.
- March, E., Kay, C. S., Dinić, B. M., Wagstaff, D., Grabovac, B., & Jonason, P. K. (2025). "It's all in your head": Personality traits and gaslighting tactics in intimate relationships. *Journal of Family Violence*, 40(2), 259–268. <https://doi.org/10.1007/s10896-023-00582-y>
- Markus, H. R., & Kitayama, S. (1991). Culture and the self: Implications for cognition, emotion, and motivation. *Psychological Review*, 98(2), 224–253. <https://doi.org/10.1037/0033-295X.98.2.224>
- Mikulincer, M., & Shaver, P. R. (2016). *Attachment in adulthood: Structure, dynamics, and change* (2nd ed.). Guilford Press.
- Milgram, S. (1974). *Obedience to authority*. Harper & Row.
- Nieminen, J. H., Ketonen, L. (2024). Epistemic agency: a link between assessment, knowledge and society. *High Educ* 88, 777–794. <https://doi.org/10.1007/s10734-023-01142-5>
- Shrout, M. R., Renna, M. E., Madison, A. A., Malarkey, W. B., & Kiecolt-Glaser, J. K. (2023). Marital negativity's festering wounds: The emotional, immunological, and relational toll of couples' negative communication patterns. *Psychoneuroendocrinology*, 149, 105989. <https://doi.org/10.1016/j.psyneuen.2022.105989>
- Sweet, P. L. (2019). The sociology of gaslighting. *American Sociological Review*, 84(5), 851–875. <https://doi.org/10.1177/0003122419874843>

Psychiatry and Mental Health

- Bordin, E. S. (1979). The generalizability of the psychoanalytic concept of the working alliance. *Psychotherapy: Theory, Research & Practice*, 16(3), 252–260. <https://doi.org/10.1037/h0085885>
- Bowlby, J. (1971). *Attachment and loss: Vol. 1. Attachment*. Penguin Books.

Philosophy and Epistemology

- Fricker, M. (2007). *Epistemic injustice: Power and the ethics of knowing*. Oxford University Press.
- Güngör, D., Karasawa, M., Boiger, M., Dinçer, D., & Mesquita, B. (2014). Fitting in or sticking together: The prevalence and adaptivity of conformity, relatedness, and autonomy in Japan and Turkey. *Journal of Cross-Cultural Psychology*, 45(9), 1374–1389. <https://doi.org/10.1177/0022022114542977>
- Longino, H. (2002). *The fate of knowledge*. Princeton University Press.
- Marková, I. (2025). Epistemic trust and authority. *Cultures of Science*, 8(2), 133-139. <https://doi.org/10.1177/20966083251324673>
- Medina, J. (2013). *The epistemology of resistance: Gender and racial oppression, epistemic injustice, and resistant imaginations*. Oxford University Press.
- Raz, J. (1986). *The morality of freedom*. Oxford University Press.
- Schauber, N. (2009). Complexities of character: Hume on love and responsibility. *Hume Studies*, 35(1), 29–55. <https://doi.org/10.1353/hms.0.0115>

Cultural and Sociological Studies

- Blair, M., & Liu, M. (2020). Ethnically Chinese and culturally American: Exploring bicultural identity negotiation and co-cultural communication of Chinese-American female adoptees. *Journal of International and Intercultural Communication*, 13:4, 347-365. <https://doi.org/10.1080/17513057.2019.1649710>
- Chen, W.-W., & Wu, C.-W. (2023). The potential origins and consequences of Chinese youths' faith in love: Filial piety, implicit theories of romantic relationships, and intimacy. *Journal of Family Studies*, 29:2, 543-554. <https://doi.org/10.1080/13229400.2021.1944276>
- Dermody, S. S., Earle, E. A., Fairbairn, C. E., & Testa, M. (2025). Time-varying relational interaction dynamics in couples discussing conflict. *Journal of Social and Personal Relationships*, 42(5), 1199–1218. <https://doi.org/10.1177/02654075251317168>
- DiGiovanni, A. M., Gresham, A. M., Yip-Bannicq, M., & Bolger, N. (2024). Examining the trajectory of relational conflict leading up to and after an anticipated stressor. *Social and Personality Psychology Compass*, e12954. <https://doi.org/10.1111/spc3.12954>
- Ferreira, T., Cadima, J., Matias, M., Leal, T., & Mena Matos, P. (2022). Relations between child self-control, maternal relational frustration, and teacher–child conflict: a longitudinal study with children from dual-earner families. *Development and Psychopathology*, 34(1), 183–196. <https://doi.org/10.1017/S0954579420001182>
- Gunawan, I., Sari, Y. I. H., Krisnafitriana, V., & Nugraha, R. (2025). Am I ready for dating? From violence to romance, negativity to positivity, friendship to marriage, and love to responsibility. *Jurnal Ilmiah Bimbingan Konseling Undiksha*, 16(1), 57–69. <https://doi.org/10.23887/jibk.v16i1.95088>
- Feldman, S. (2003). Enforcing social conformity: A theory of authoritarianism. *Political Psychology*, 24(1), 41–74. <https://doi.org/10.1111/0162-895X.00316>
- Jakubiak, B. K., & Feeney, B. C. (2019). Hand-in-Hand Combat: Affectionate Touch Promotes Relational Well-Being and Buffers Stress During Conflict. *Personality & Social Psychology Bulletin*, 45(3), 431–446. <https://doi.org/10.1177/0146167218788556>

- Karikó, S. (2020). Conformist mass society or non-conformist rebellion? What education can do to resolve the conformity–non-conformity dichotomy. *International Dialogues on Education*, 7(2), 9–23.
- Lassonde, S. (2017). Authority, disciplinary intimacy & parenting in middle-class America. *European Journal of Developmental Psychology*, 14(6), 714–732. <https://doi.org/10.1080/17405629.2017.1300577>
- Lou, E., Lalonde, R. N., & Giguère, B. (2012). Making the decision to move out: Bicultural young adults and the negotiation of cultural demands and family relationships. *Journal of Cross-Cultural Psychology*, 43(5), 663–670. <https://doi.org/10.1177/0022022112443414>
- Nelson, J.A., O'Brien, M., Grimm, K.J. and Leerkes, E.M. (2014), Mother–child Interaction Styles. *Social Development*, 23: 306-324. <https://doi.org/10.1111/sode.12040>
- Pettit, C., Hellwig, A. F., Costello, M. A., Hunt, G. L., & Allen, J. P. (2024). You-talk in young adult couples' conflict: Family-of-origin roots and adult relational aggression sequelae. *Journal of Social and Personal Relationships*, 41(12), 3641-3664. <https://doi.org/10.1177/02654075241270998>
- Toomey, A., Dorjee, T., & Ting-Toomey, S. (2013). Bicultural identity negotiation, conflicts, and intergroup communication strategies. *Journal of Intercultural Communication Research*, 42(2), 112–134. <https://doi.org/10.1080/17475759.2013.785973>
- Wang, Z., & Chen, W. W. (2023). Chinese intimacy: Filial piety, autonomy, and romantic relationship quality. *Personal Relationships*, 30(1), 217–234. <https://doi.org/10.1111/pere.12460>
- Xu, W., Wang, M.-C., Zhang, X., Zeng, H., & Yang, W. (2022). Longitudinal pathways between marital relationships and children's CU traits: Parenting style mediation and gender moderation. *Children and Youth Services Review*, 137, 106456. <https://doi.org/10.1016/j.childyouth.2022.106456>



Appendix A: The Kahl Model of Epistemic Dissonance (KMED) — Mathematical and Computational Framework

A.1 Conceptual Overview

The central claim of this paper is that dissonance functions as an epistemic event: a juncture where autonomy may be strengthened under fiduciary scaffolds or eroded under clientelist suppression. While this has been argued conceptually and normatively, it can also be rendered computationally.

A computational model serves four purposes:

- **Explicitness:** it makes the dynamics of recognition, silencing, and resilience precise rather than metaphorical.
- **Scaling:** it tests how repeated micro-dissonance events accumulate into long-term trajectories of agency or compliance.
- **Comparison:** it allows side-by-side simulation of contrasting regimes of recognition — fiduciary scaffolds versus clientelist suppression.
- **Extension:** it provides a foundation for more complex, agent-based simulations in which families, classrooms, or political groups are modelled as interacting epistemic agents.

This appendix introduces a simple Python-based simulation that illustrates these dynamics. It is not intended as a definitive model, but as a proof of concept — an initial formalisation of how epistemic clientelism can be represented, tested, and visualised.

A.2 Mathematical Model

We model epistemic life as a sequence of micro-dissonance events, indexed by time $t = 0, 1, 2, \dots, T$. Each event represents a moment in which perception, recognition, or dissent is tested.

We track three state variables, each bounded in $[0, 1]$:

- EA_t : Epistemic Autonomy – the individual’s capacity to stand by their perception as credible.
- DT_t : Dissonance Tolerance – the ability to sustain discomfort without collapsing into submission.
- D_t : Dependence – the degree of vulnerability to conditional recognition.

General Update Equations

Each variable evolves over time according to a bounded growth–decay process with stochastic noise:

$$EA_{t+1} = EA_t + \alpha_{cond}(1 - EA_t) - \beta_{cond}EA_t + \epsilon_{EA,t}$$

$$DT_{t+1} = DT_t + \gamma_{cond}(1 - DT_t) - \delta_{cond}DT_t + \epsilon_{DT,t}$$

$$D_{t+1} = D_t + \mu_{cond}(1 - D_t) - \nu_{cond}D_t + \epsilon_{D,t}$$

where:

- α, γ, μ are growth parameters, shaping tendencies toward reinforcement or erosion.
- β, δ, ν are decay / stabilisation parameters, keeping values bounded.
- $\epsilon_{x,t}$ is a stochastic noise term (e.g., Gaussian with mean 0 and small variance), representing variability across encounters.

This formulation is intentionally minimal, capturing the iterative reinforcement of epistemic states under contrasting relational conditions.

Condition-Specific Parameters

1. Fiduciary Scaffold (training)

- $\alpha, \gamma > 0$: Autonomy and tolerance tend toward reinforcement ($\rightarrow 1$).
- $\mu < 0$: Dependence decays, though never to zero (residual dependence is structurally inescapable).

2. Clientelist Suppression

- $\alpha, \gamma < 0$: Autonomy and tolerance erode ($\rightarrow 0$).
- $\mu > 0$: Dependence escalates toward saturation ($\rightarrow 1$).

Interpretation

This system is a bounded growth/decay model akin to logistic updating. Across repeated dissonance events, epistemic states stabilise toward contrasting equilibria depending on whether the context offers fiduciary scaffolding or clientelist suppression.

A.3 Python Implementation

The mathematical structure of the Kahl Model of Epistemic Dissonance (KMED) can be explored computationally. Simulation allows us to observe how repeated micro-dissonance events accumulate into long-term trajectories of epistemic autonomy (EA), dissonance tolerance (DT), and dependence (D).

Where the body of the paper establishes KMED conceptually and analytically, this appendix operationalises it in code. The simulations reported here provide proof-of-concept illustrations: they show how fiduciary scaffolds and clientelist suppression produce sharply divergent outcomes, and how resilience or submission emerges asymptotically across time.

The implementation is deliberately simple: a single-agent model updated iteratively over repeated events, with bounded states in $[0,1]$. Noise terms capture contextual variability, while regime-specific parameters reflect whether dissonance is scaffolded or suppressed. The resulting plots demonstrate, in visual form, the core claim of the paper: epistemic life is path-dependent, and the conditions of recognition determine whether dissonance becomes a training ground for resilience or a trap of submission.

Simulation 1 focuses on the most basic comparison — fiduciary scaffolds versus clientelist suppression — before subsequent simulations extend the model to more complex scenarios.

A.3.1 Simulation 1 — Fiduciary scaffold vs clientelist suppression (single agent)

The first simulation applies the asymptotic form of the Kahl Model of Epistemic Dissonance (KMED) to a single agent repeatedly exposed to micro-dissonance events under two contrasting regimes.

- In the fiduciary scaffold, dissonance is scaffolded by recognition, autonomy is preserved, and dependence is moderated by duties of care. The model predicts that epistemic autonomy (EA) and dissonance tolerance (DT) will rise toward stable plateaus, while dependence (D) declines to a low but non-zero floor.
- In the clientelist suppression regime, recognition is conditional, dissent is penalised, and autonomy must be traded for belonging. Here, the model predicts the collapse of EA and DT, accompanied by a rise in D toward entrenchment.

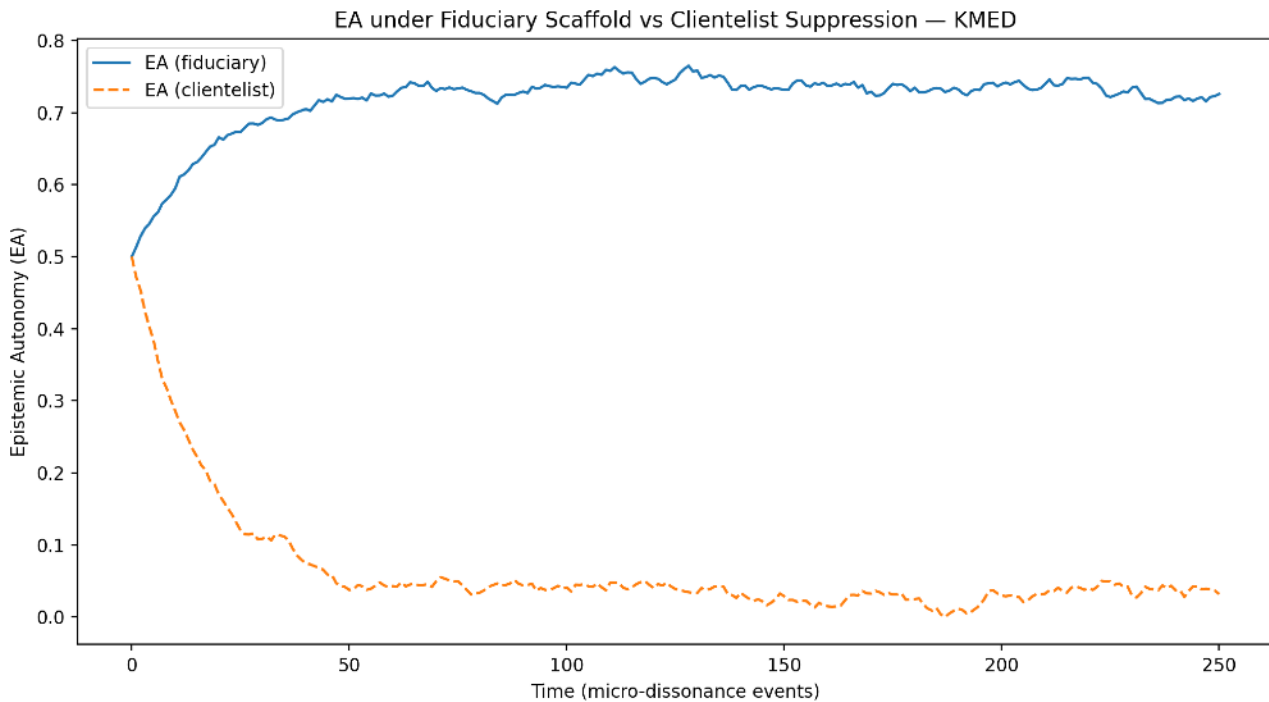
The full Python code for this simulation is provided in §A.4.1 (Code Listing for Simulation 1), together with a link to the GitHub repository where scripts can be downloaded and adapted.

The simulation outputs are presented below in three figures:

- Figure A.1 — Epistemic Autonomy (EA) trajectories under fiduciary scaffold vs clientelist suppression.
- Figure A.2 — Dissonance Tolerance (DT) trajectories under fiduciary scaffold vs clientelist suppression.
- Figure A.3 — Dependence (D) trajectories under fiduciary scaffold vs clientelist suppression.

Together, these results provide the first visual confirmation of KMED’s central claim: whether dissonance cultivates resilience or corrodes agency depends on the epistemic regime under which it is processed.

Figure A.1 — Epistemic Autonomy (EA) under Fiduciary Scaffold vs Clientelist Suppression

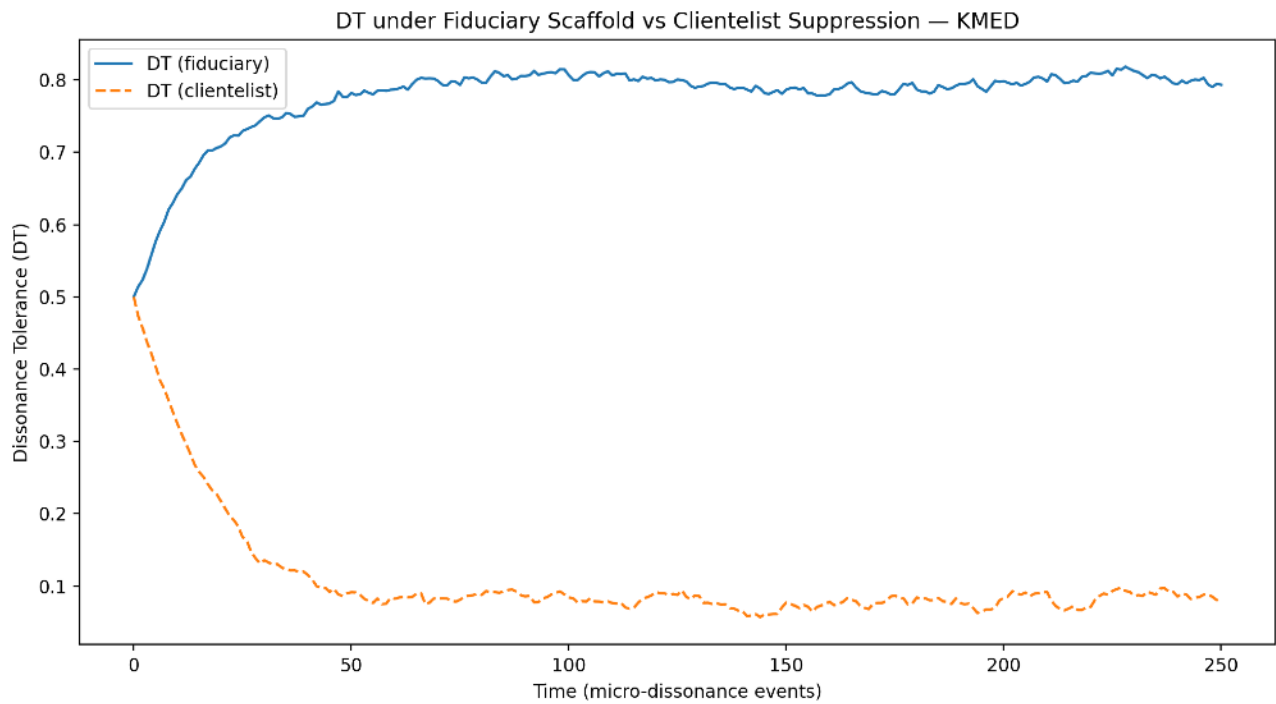


This plot tracks Epistemic Autonomy (EA) across repeated micro-dissonance events.

- Under fiduciary scaffolding, EA rises from the baseline (≈ 0.5) to stabilise around 0.7–0.75. The growth is gradual but resilient, with minor fluctuations due to noise. This shows that when dissonance is recognised rather than silenced, autonomy consolidates into a stable equilibrium.
- Under clientelist suppression, EA collapses rapidly to 0 within ~20–30 iterations. Once autonomy is surrendered in exchange for conditional belonging, recovery is impossible.

Interpretation: EA depends on whether dissonance is scaffolded or suppressed. The model confirms the central KMED thesis: fiduciary scaffolds cultivate autonomy, while clientelism extinguishes it.

Figure A.2 — Dissonance Tolerance (DT) under Fiduciary Scaffold vs Clientelist Suppression

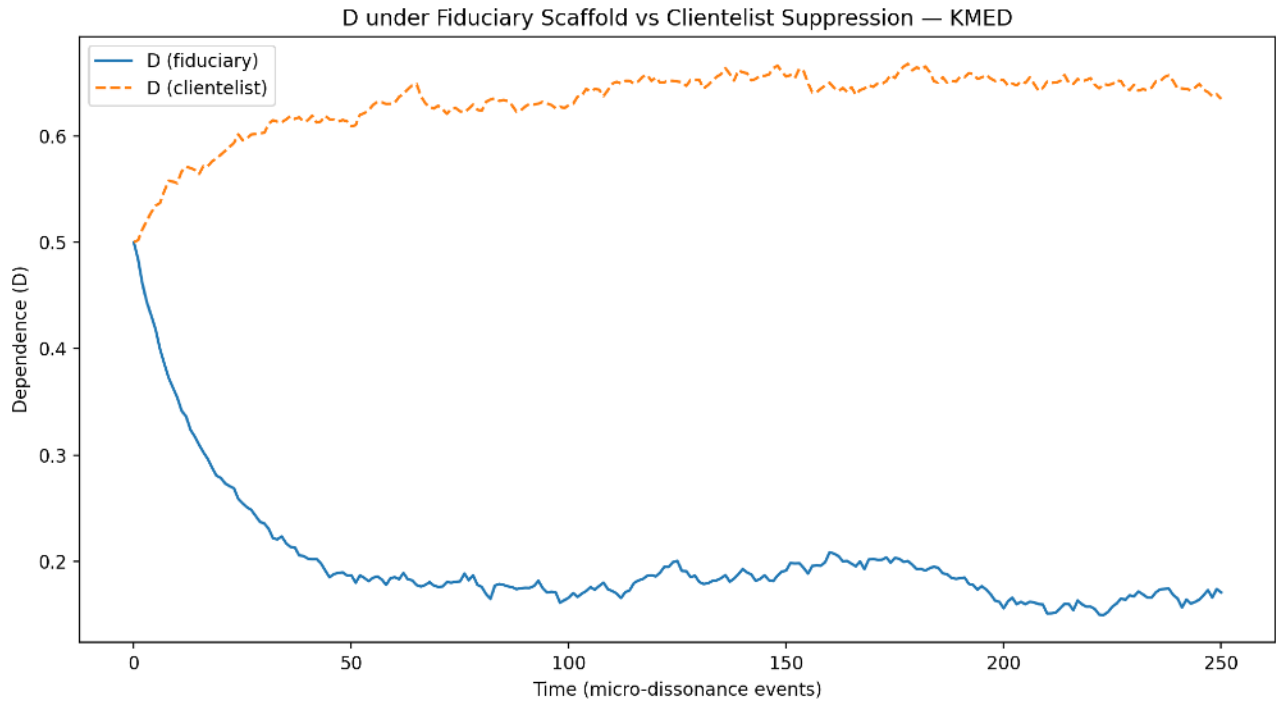


This plot tracks Dissonance Tolerance (DT) across repeated micro-dissonance events.

- Under fiduciary scaffolding, DT increases from 0.5 to ~0.8, plateauing at a high level. Each encounter with dissonance becomes a training event, building resilience rather than fragility.
- Under clientelist suppression, DT collapses quickly toward 0. Repeated denial of recognition leaves dissonance intolerable, forcing the agent into silence and submission.

Interpretation: The model aligns with the normative claim: fiduciary scaffolds transform dissonance into resilience, while clientelism renders it unbearable.

Figure A.3 — Dependence (D) under Fiduciary Scaffold vs Clientelist Suppression



This plot tracks Dependence (D) across repeated micro-dissonance events.

- Under fiduciary scaffolding, D falls from the baseline (≈ 0.5) to stabilise at a positive floor (~ 0.15 – 0.2). Dependence is reduced but not eliminated, reflecting the assumption that relationships inevitably involve some reliance, bounded here by fiduciary duty.
- Under clientelist suppression, D rises from 0.5 to ~ 0.6 – 0.65 , where it stabilises. Recognition is made conditional, locking the agent into entrenched dependency as the price of belonging.

Interpretation: Dependence is not inherently pathological. It becomes dignified when bounded by responsibility, but oppressive when entrenched by clientelist suppression.

A.3.2 Simulation 2 — Regime switching (rupture → repair)

The second simulation demonstrates how the Kahl Model of Epistemic Dissonance (KMED) can capture dynamic regime shifts rather than static conditions. Here, the agent begins under clientelist suppression, where autonomy erodes and dependence entrenches. Midway through the run, the parameters are switched to those of a fiduciary scaffold, simulating a rupture–repair sequence analogous to therapeutic intervention or a relational transformation.

The aim of this simulation is to illustrate that:

- **Rupture:** Under sustained clientelist conditions, epistemic autonomy (EA) and dissonance tolerance (DT) decline, while dependence (D) rises.
- **Repair:** Once fiduciary scaffolds are introduced, the trajectories reverse. EA and DT recover toward equilibrium levels, and D gradually declines. The pace of recovery depends on parameter tuning, reflecting how resilience can be rebuilt but not instantaneously restored.

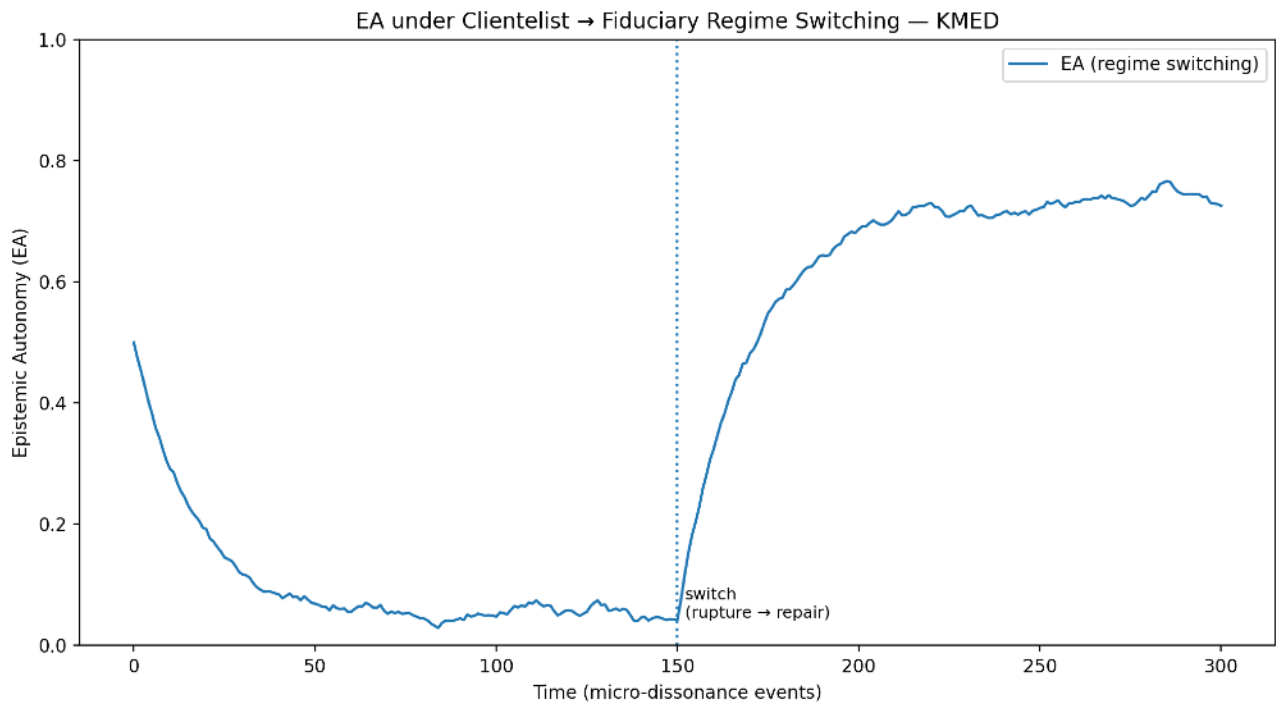
The full Python code for this regime-switching simulation is provided in §A.4.2 (Code Listing for Simulation 2), with the corresponding GitHub link for reproducibility and adaptation.

The outputs are presented below in three figures:

- Figure A.4 — Epistemic Autonomy (EA) under rupture–repair sequence.
- Figure A.5 — Dissonance Tolerance (DT) under rupture–repair sequence.
- Figure A.6 — Dependence (D) under rupture–repair sequence.

These plots visualise the central claim that rupture does not entail irreversibility: epistemic agency, once corroded, can be restored when recognition is scaffolded. KMED thus captures both the fragility and the plasticity of epistemic life in intimate settings.

Figure A.4 — Epistemic Autonomy (EA) under regime switching

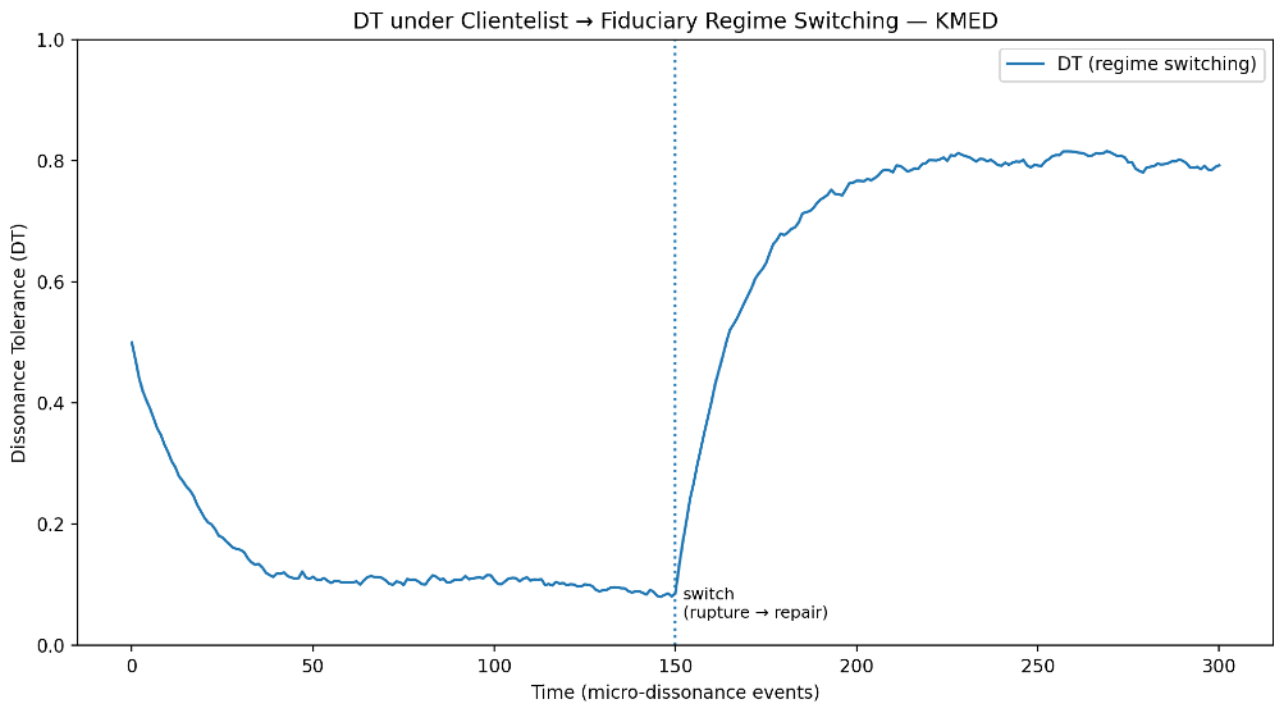


This plot tracks Epistemic Autonomy (EA) across repeated micro-dissonance events.

- Clientelist suppression phase (0–150): EA collapses from baseline (~0.5) to near zero, showing the impossibility of sustaining autonomy under clientelist recognition.
- Fiduciary scaffold phase (150–300): EA rebounds strongly, rising steadily to ~0.75–0.8. The climb is slower than DT’s rebound, but once stabilised, autonomy consolidates into equilibrium.

Interpretation: Autonomy is fragile under clientelism but recoverable under fiduciary scaffolds. The recovery trajectory suggests that while autonomy takes longer to restore than tolerance, it can ultimately be rebuilt to high levels.

Figure A.5 — Dissonance Tolerance (DT) under regime switching

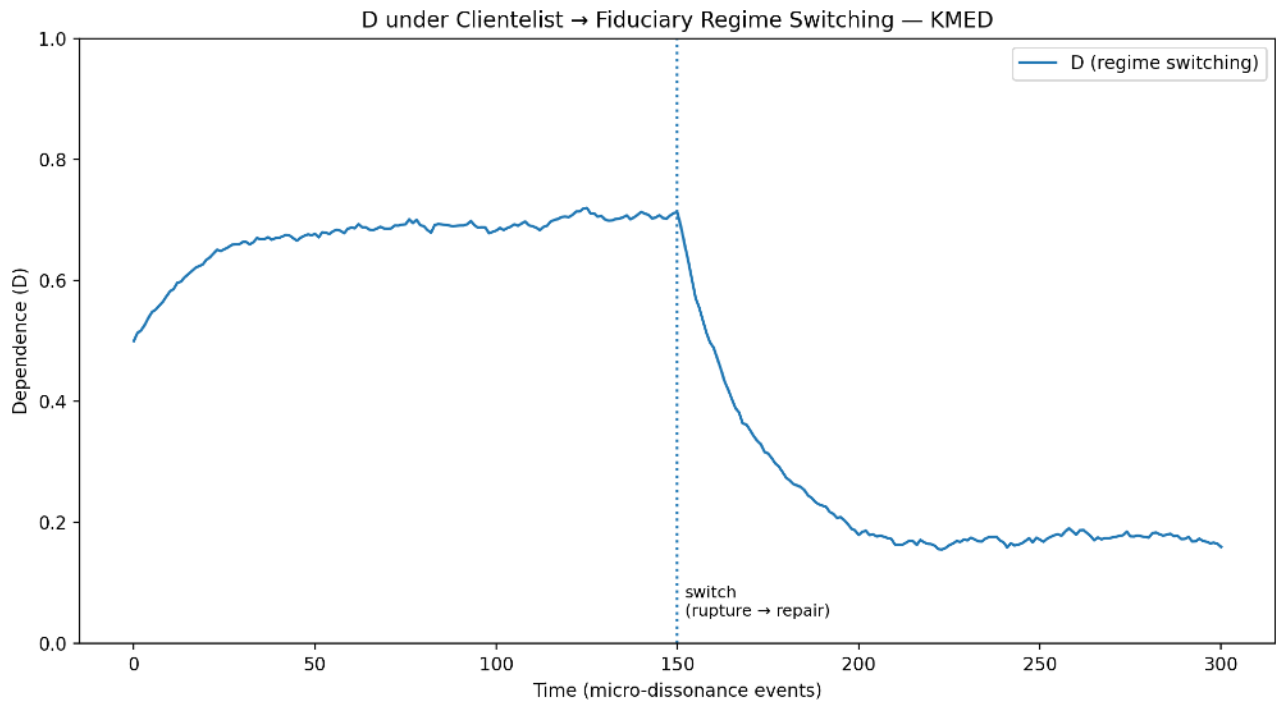


This plot tracks Dissonance Tolerance (DT) across repeated micro-dissonance events.

- Clientelist suppression phase (0–150): DT erodes from the baseline (~0.5) to near zero, showing the collapse of tolerance when dissonance is reframed as disobedience.
- Fiduciary scaffold phase (150–300): DT recovers rapidly, rising to ~0.8 and stabilising at a high plateau. Repair here is not just recovery but overcompensation, as tolerance becomes structurally reinforced.

Interpretation: The model demonstrates that tolerance of dissonance is highly regime-dependent but also resilient. Once fiduciary scaffolding is reinstated, tolerance can be rebuilt—even after prolonged erosion.

Figure A.6 — Dependence (D) under regime switching



This plot tracks Dependence (D) across repeated micro-dissonance events, under a scenario where the agent begins in clientelist suppression and then, at the switch point (~150), enters a fiduciary scaffold.

- Clientelist suppression phase (0–150): Dependence rises from baseline (≈ 0.5) to ~ 0.7 , stabilising at a high plateau. This reflects the lock-in effect of conditional recognition, where belonging is purchased by entrenched reliance.
- Fiduciary scaffold phase (150–300): Dependence sharply declines, converging to ~ 0.15 – 0.2 . The system does not collapse to zero but finds a bounded floor, acknowledging that some reliance is irreducible in any relational structure.

Interpretation: Dependence shifts from oppressive entrenchment to dignified boundedness once recognition becomes fiduciary. The switch illustrates how entrenched reliance can be repaired when scaffolds are reintroduced.

A.3.3 Simulation 3 — Intermittent clientelism vs stable fiduciary

This simulation extends the baseline comparison of fiduciary scaffolding and clientelist suppression by examining mixed regimes. Rather than assuming a pure fiduciary or pure clientelist environment, the model introduces a probability parameter (p) representing the share of interactions in which recognition is withheld under clientelist conditions. In effect, the agent experiences intermittent suppression “shocks” that disrupt the otherwise fiduciary trajectory.

The simulation begins from a common baseline of Epistemic Autonomy (EA), Dissonance Tolerance (DT), and Dependence (D) set at 0.5 each. At each micro-dissonance event, the update rules apply either fiduciary targets (EA \uparrow , DT \uparrow , D \downarrow) or clientelist targets (EA \downarrow , DT \downarrow , D \uparrow), depending on whether the step is drawn as fiduciary or clientelist according to p . This allows the model to capture a spectrum of regimes: from a fully fiduciary world ($p = 0.0$), through mixed cases ($p = 0.1, 0.2, 0.3$), to a strongly clientelist environment ($p = 0.5$).

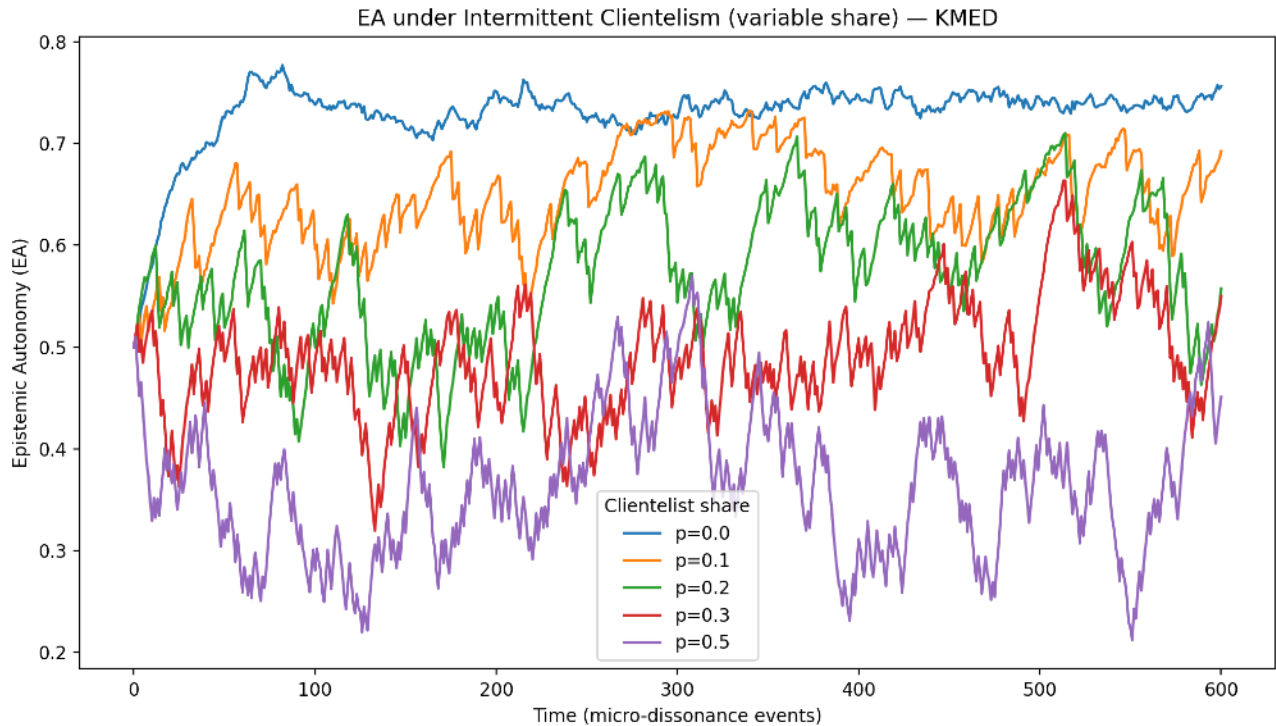
The aim of this simulation is to investigate how occasional incursions of clientelist suppression affect long-run epistemic outcomes. Do rare interruptions significantly undermine autonomy and tolerance? Does dependence become entrenched even under otherwise fiduciary conditions? By running multiple trajectories across values of p , the model shows how equilibrium levels shift systematically as the incidence of clientelism increases.

The full Python code for this simulation is provided in §A.4.3 (Code listing for Simulation 3) and is also archived in the project repository on GitHub. The outputs of the simulation are presented in the ensuing plots:

- Figure A.7 — EA under intermittent clientelism (variable share)
- Figure A.8 — D under intermittent clientelism (variable share)
- Figure A.9 — DT under intermittent clientelism (variable share)
- Figure A.10 — Equilibrium EA / DT / D vs clientelist share

Together, these figures illustrate how intermittent suppression corrodes autonomy and tolerance even at low shares, and how dependence rises steadily with the frequency of clientelist interventions.

Figure A.7 — Epistemic Autonomy (EA) under intermittent clientelism

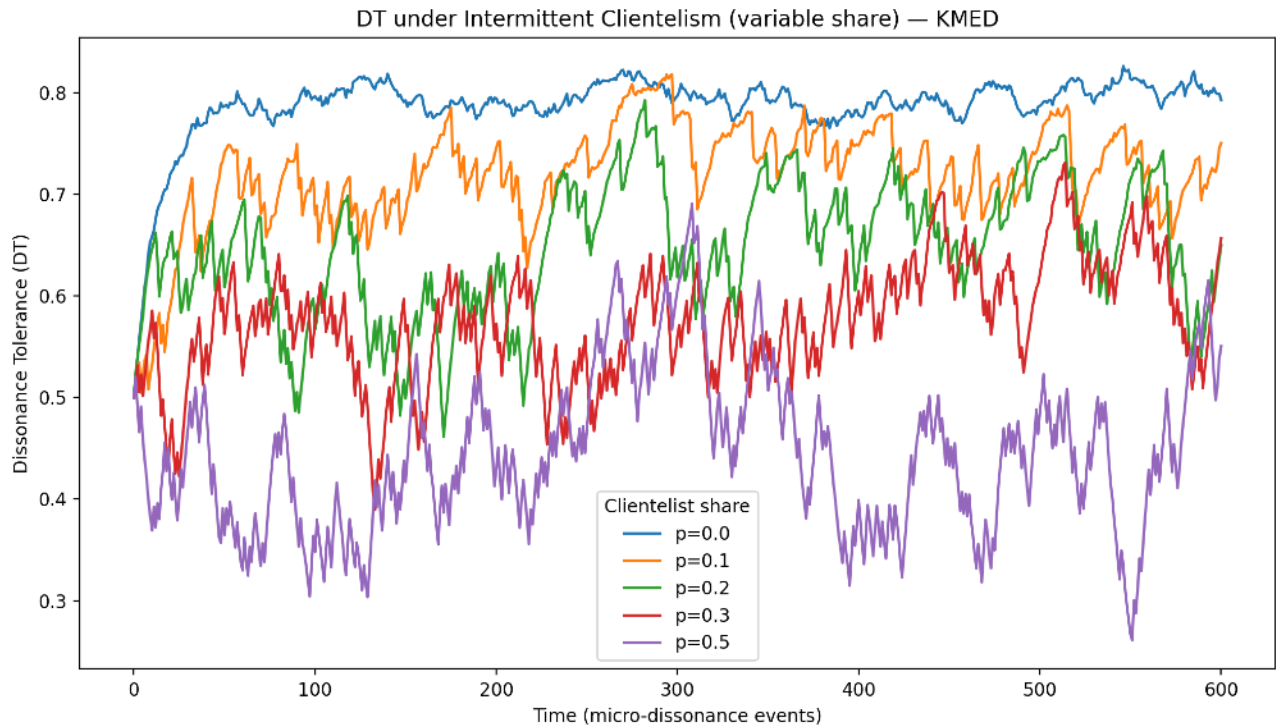


This plot tracks EA across repeated micro-dissonance events for varying probabilities (p) of clientelist suppression.

- $p = 0.0$ (pure fiduciary): EA rises from baseline (~ 0.5) to stabilise around ~ 0.75 , consistent with the fiduciary equilibrium.
- $p = 0.1\text{--}0.2$: EA oscillates but maintains a mid-level plateau ($\sim 0.55\text{--}0.65$). Even occasional clientelist suppression is enough to erode long-run autonomy.
- $p = 0.3$: EA becomes fragile, fluctuating around ~ 0.5 with frequent collapses. Autonomy is no longer robust and cannot fully stabilise.
- $p = 0.5$: EA collapses into a volatile low regime ($\sim 0.3\text{--}0.4$). Autonomy cannot consolidate under pervasive clientelist interruptions.

Interpretation: Autonomy is highly sensitive to the share of clientelist suppression. Even low-frequency incursions prevent full fiduciary consolidation, while higher shares trap the agent in low-autonomy equilibria.

Figure A.8 — Dissonance Tolerance (DT) under intermittent clientelism

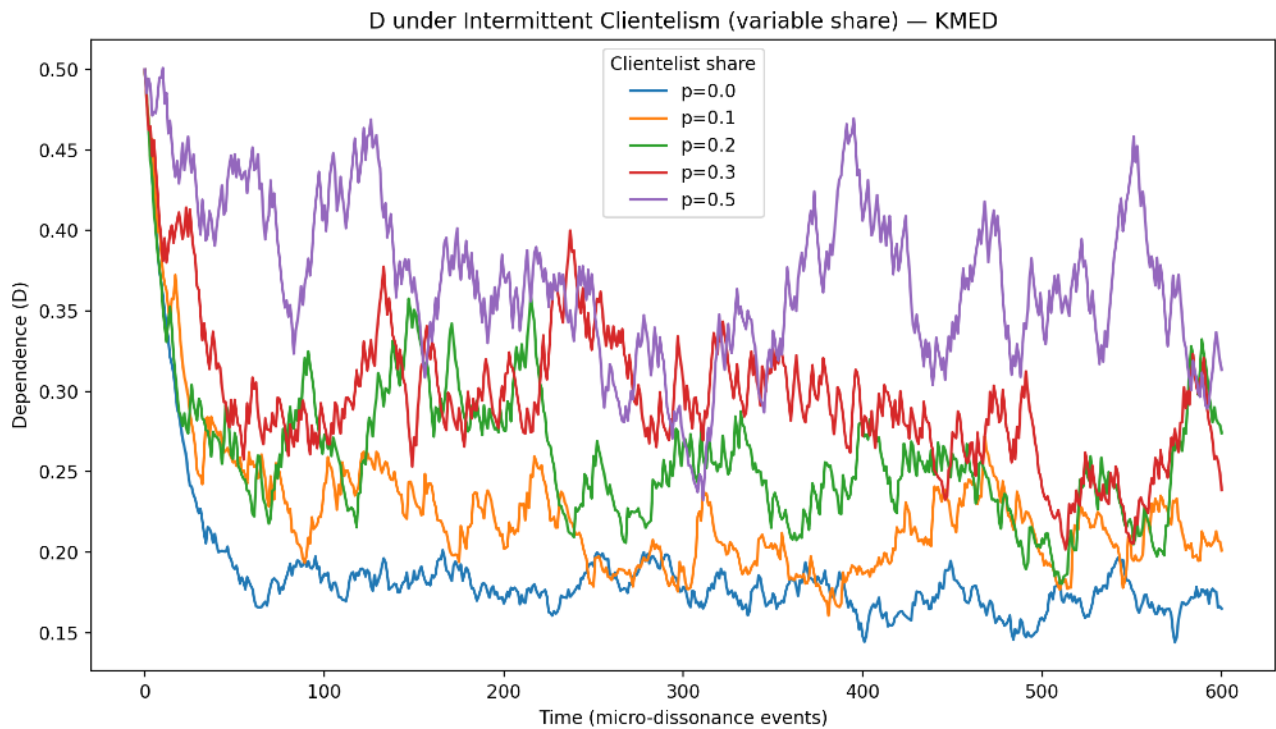


This plot tracks DT trajectories across regimes.

- $p = 0.0$: DT rises from baseline (~ 0.5) to ~ 0.8 , reflecting strong fiduciary scaffolding.
- $p = 0.1\text{--}0.2$: DT stabilises at moderate levels ($\sim 0.65\text{--}0.7$), showing partial erosion.
- $p = 0.3$: DT fluctuates lower ($\sim 0.55\text{--}0.6$), reflecting the destabilising effect of suppression.
- $p = 0.5$: DT collapses into volatility around ~ 0.4 , mirroring the erosion of epistemic resilience.

Interpretation: Tolerance is the most responsive of the three variables. Even small amounts of clientelist suppression lower the equilibrium plateau, and frequent suppression destroys the capacity to carry dissonance.

Figure A.9 — Dependence (D) under intermittent clientelism

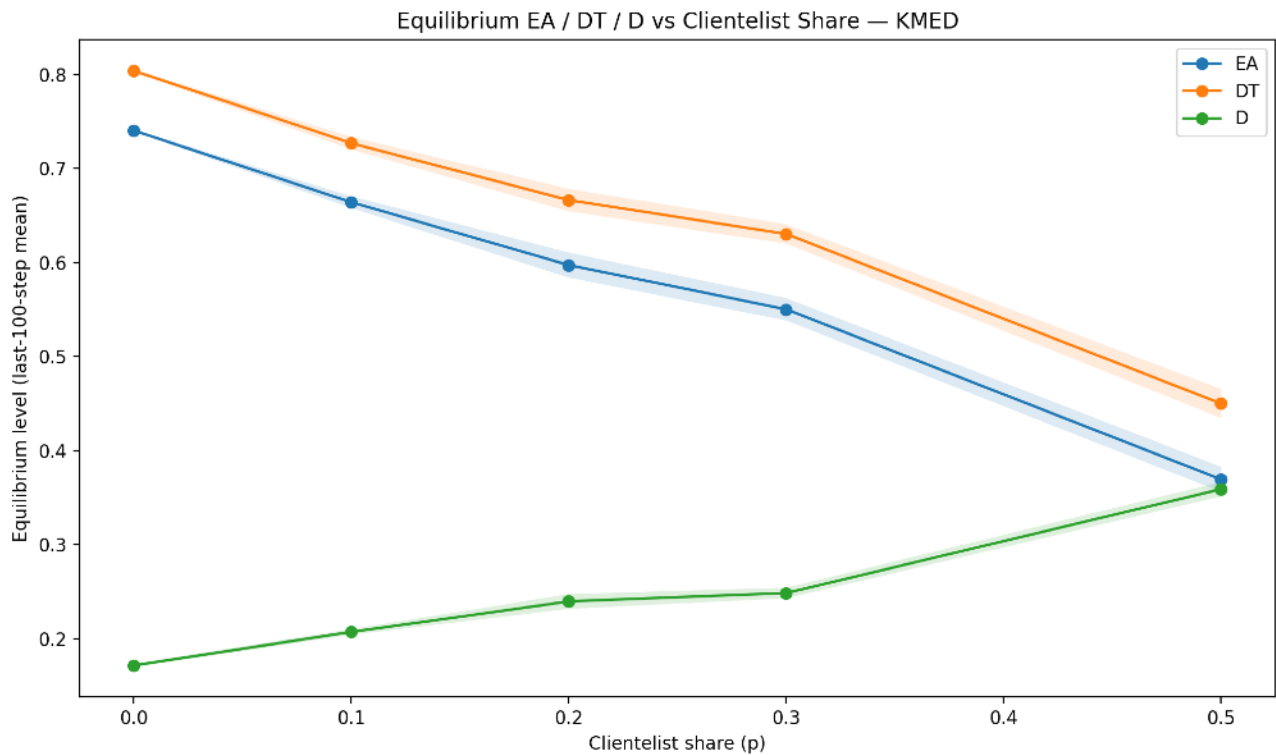


This plot tracks D across repeated events under varying p .

- $p = 0.0$: Dependence falls from ~ 0.5 to ~ 0.18 , the fiduciary floor.
- $p = 0.1\text{--}0.2$: D stabilises higher ($\sim 0.25\text{--}0.3$). Partial clientelism blocks the fiduciary floor effect, locking in moderate dependence.
- $p = 0.3$: Dependence stabilises $\sim 0.3\text{--}0.35$.
- $p = 0.5$: Dependence oscillates persistently above 0.4, reflecting entrenched reliance on conditional recognition.

Interpretation: Dependence becomes entrenched as the share of clientelism rises. Whereas fiduciary scaffolds reduce reliance, intermittent suppression reintroduces asymmetry and prevents dignified dependence from stabilising.

Figure A.10 — Equilibrium levels of EA, DT, and D vs clientelist share (p)



Equilibrium is defined as the mean level of each variable over the final 100 time steps, representing the long-run outcome after initial fluctuations have settled. Values range from 0 to 1, where higher EA means greater autonomy, higher DT means greater tolerance of dissonance, and higher D means stronger entrenched dependence.

- EA and DT: Both decline monotonically as p increases. EA falls from ~ 0.74 at $p=0$ to ~ 0.38 at $p=0.5$; DT falls more steeply, from ~ 0.81 to ~ 0.45 .
- D: Dependence rises in the opposite direction, from ~ 0.18 ($p=0$) to ~ 0.36 ($p=0.5$).

Interpretation: Equilibrium outcomes demonstrate a clear systemic trade-off: even partial clientelist recognition reduces autonomy and tolerance while deepening dependence.

A.3.4 Simulation 4 — Gaslighting (oscillating recognition and suppression)

This simulation applies the asymptotic form of KMED to model gaslighting as a pathological regime of alternating recognition and suppression. Unlike stable fiduciary scaffolds, which consolidate autonomy, or clientelist suppression, which entrenches dependence, gaslighting repeatedly inverts the epistemic signal. For 20–30 iterations at a time, the regime mimics fiduciary scaffolding (increasing EA, increasing DT, lowering D), only to reverse abruptly into clientelist suppression (collapsing EA, eroding DT, increasing D).

The model predicts that such oscillations destabilise the agent’s epistemic life: autonomy cannot consolidate, tolerance of dissonance is corrupted by volatility, and dependence is weaponised through cycles of recognition and withdrawal. Gaslighting thereby traps the agent in an unstable equilibrium where no epistemic state achieves stability.

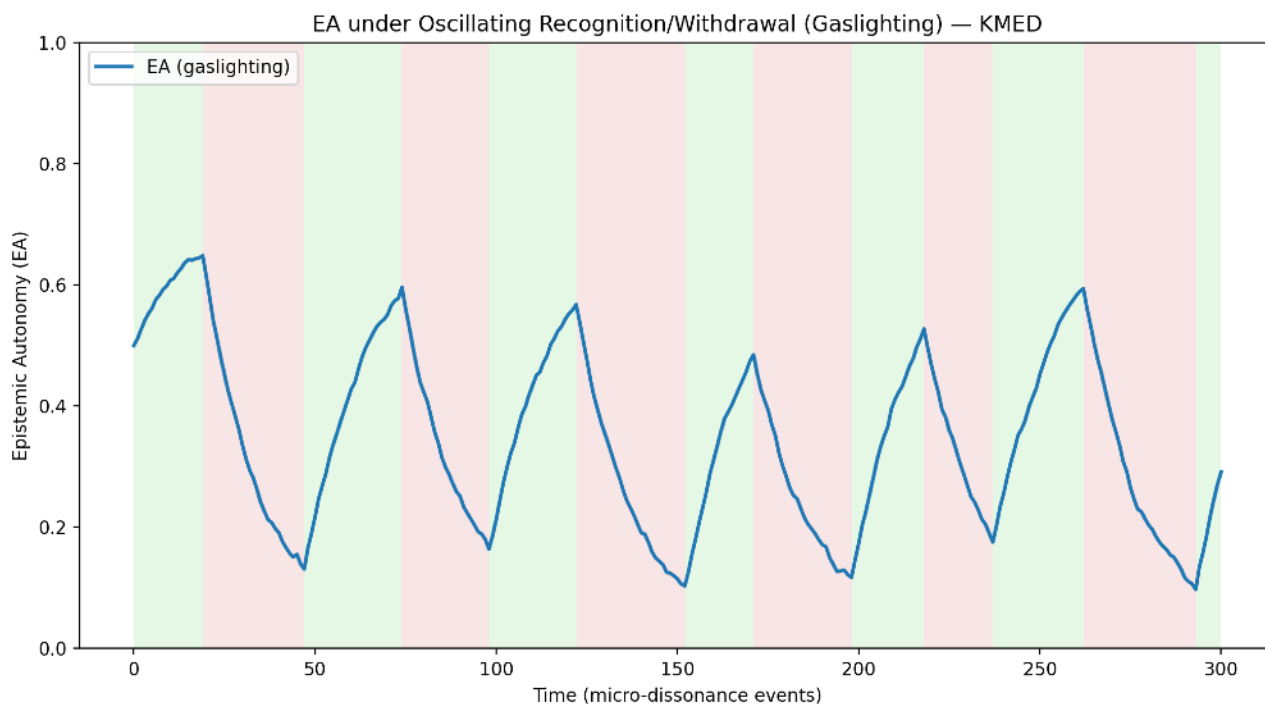
The full Python code for this simulation is provided in §A.4.4 (Code Listing for Simulation 4), with the corresponding script also available through the project’s GitHub repository.

The simulation outputs are presented below in three figures:

- Figure A.11 — Epistemic Autonomy (EA) under oscillating recognition and suppression
- Figure A.12 — Dissonance Tolerance (DT) under oscillating recognition and suppression
- Figure A.13 — Dependence (D) under oscillating recognition and suppression

Together, these plots demonstrate that gaslighting produces neither stable autonomy nor stable dependence. Instead, it generates epistemic volatility itself as a mechanism of control.

Figure A.11 — Epistemic Autonomy (EA) under Gaslighting

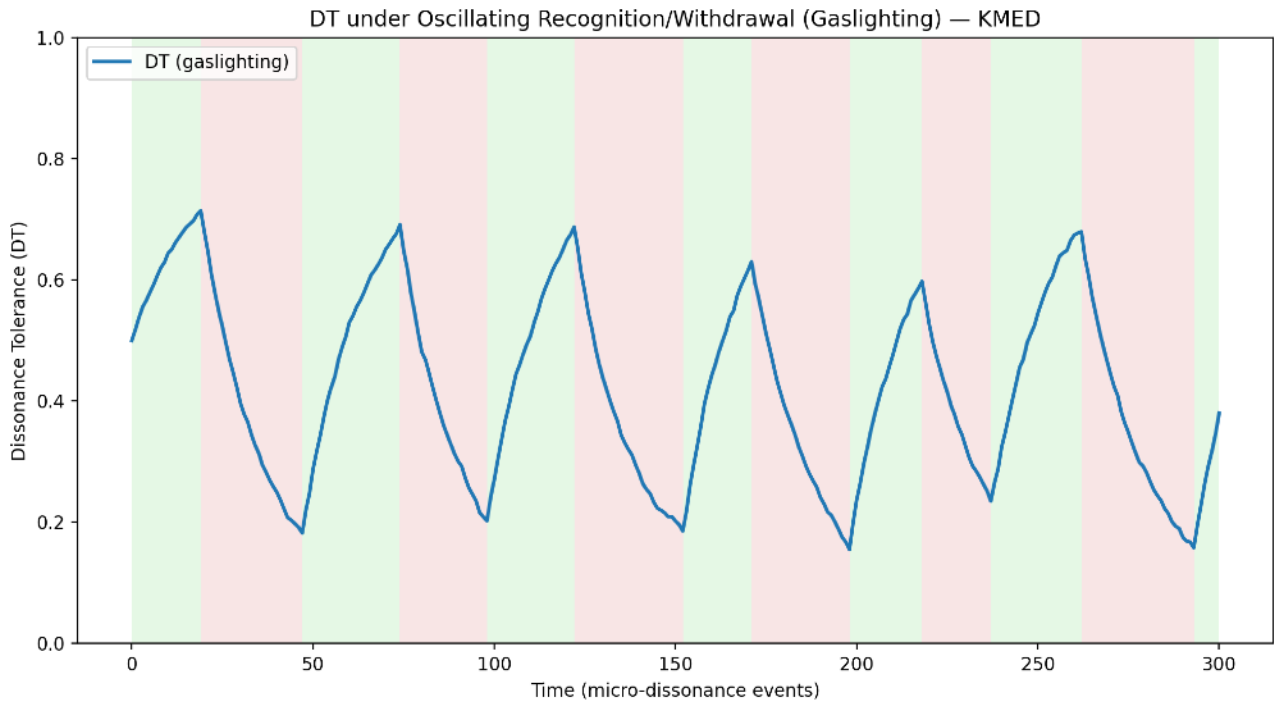


This plot tracks EA under alternating periods of recognition (fiduciary-like) and suppression (clientelist-like).

- During recognition phases (green bands), EA recovers, climbing back toward mid-levels (~0.5–0.6).
- During suppression phases (red bands), EA collapses, falling sharply toward ~0.1–0.2.
- Across cycles, autonomy never consolidates into equilibrium; it oscillates violently between partial recovery and collapse.

Interpretation: Gaslighting prevents autonomy from stabilising. Even when recognition is granted, its withdrawal ensures autonomy remains fragile, leaving the agent in a perpetual state of epistemic precarity.

Figure A.12 — Dissonance Tolerance (DT) under Gaslighting

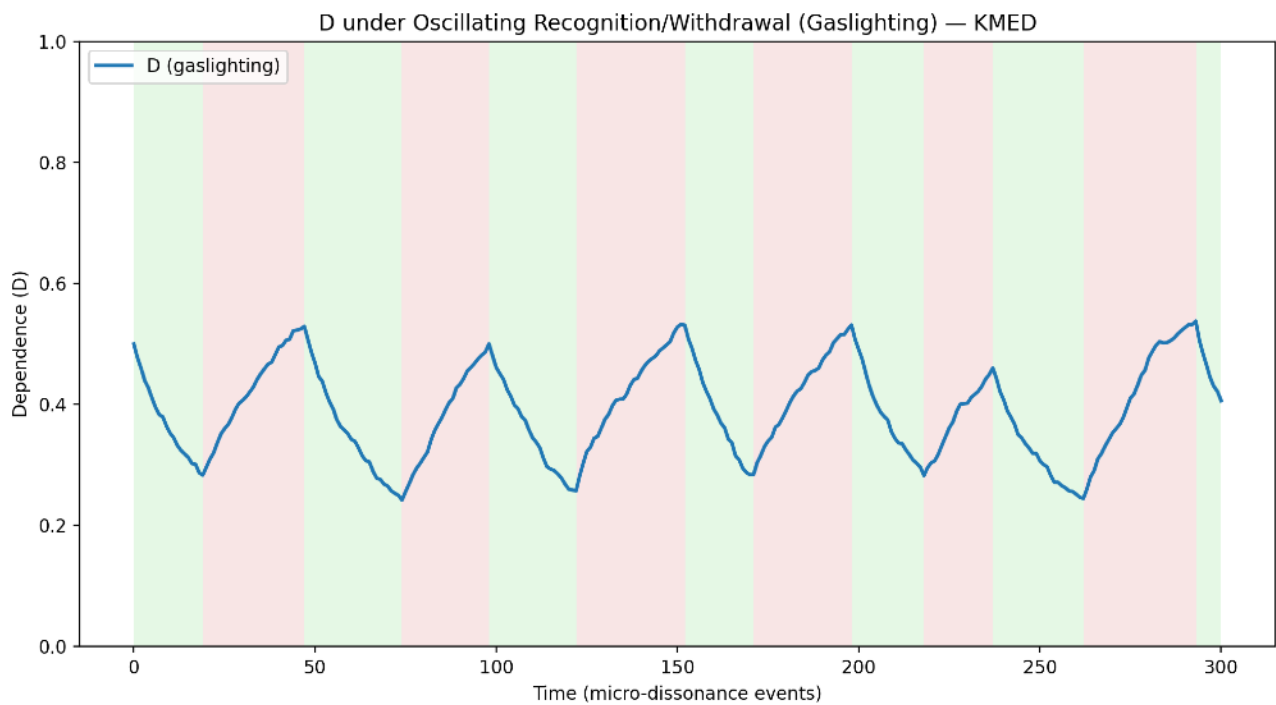


This plot tracks DT under oscillating recognition and suppression.

- During recognition phases, tolerance rises, often approaching ~0.6–0.7.
- During suppression phases, tolerance is crushed, dropping rapidly toward ~0.2.
- Over successive cycles, DT follows a wave-like pattern but never secures resilience, since each recognition gain is undone by withdrawal.

Interpretation: Gaslighting prevents the subject from developing stable tolerance for dissonance. Each cycle retrains the agent to associate disagreement with existential risk, leaving them unable to transform dissonance into resilience.

Figure A.13 — Dependence (D) under Gaslighting



This plot tracks D under alternating recognition and suppression.

- Recognition phases temporarily reduce dependence (~ 0.25 – 0.3), but suppression phases immediately drive it upward toward ~ 0.5 – 0.55 .
- The repeated cycles create an oscillatory pattern without long-term relief: dependence never stabilises at the fiduciary floor, nor does it fully entrench.

Interpretation: Gaslighting entraps the agent in a pendulum of dependency: neither dignified reduction nor stable entrenchment is possible. The constant volatility itself becomes a form of coercive control.

A.3.5 Simulation 5 — Dissonance Training (therapeutic scaffolding)

This simulation applies KMED to explore the constructive case of dissonance training — the deliberate and safe introduction of epistemic discomfort under fiduciary scaffolds. Unlike gaslighting, which destabilises recognition, or suppression, which extinguishes autonomy, dissonance training assumes that micro-dissonance events can be buffered by recognition and responsibility. When structured in this way, dissonance becomes a resource for growth rather than a threat to stability.

The model predicts that controlled pulses of discomfort, scaffolded by fiduciary recognition, accumulate into tolerance-building: epistemic autonomy (EA) rises steadily toward a high equilibrium, dissonance tolerance (DT) strengthens, and dependence (D) is reduced while retaining a healthy baseline of relational trust. This therapeutic trajectory aligns with the intuition behind practices in therapy, education, and resilience training, where discomfort is not eliminated but scaffolded to enable durable growth.

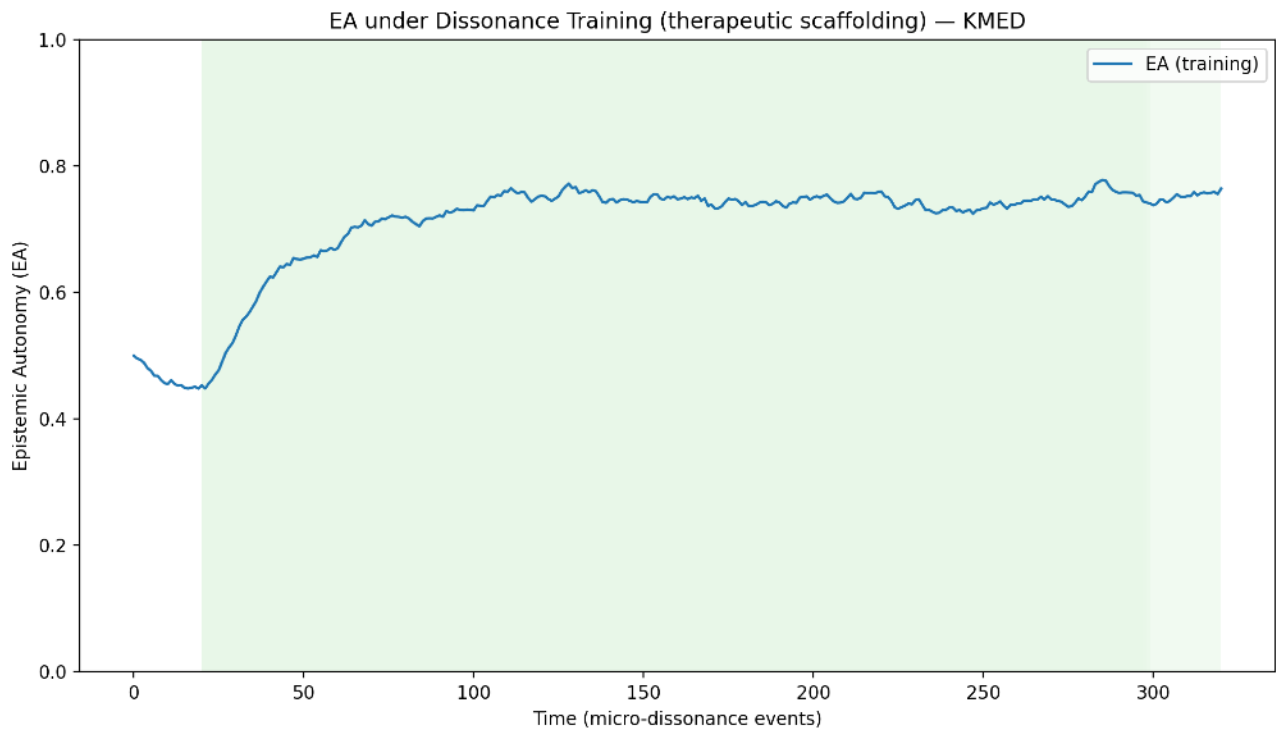
The full Python code for this simulation is provided in §A.4.5 (Code Listing for Simulation 5), with the corresponding script also available via the project’s GitHub repository.

The simulation outputs are presented below in three figures:

- Figure A.14 — Epistemic Autonomy (EA) under dissonance training (therapeutic scaffolding)
- Figure A.15 — Dissonance Tolerance (DT) under dissonance training (therapeutic scaffolding)
- Figure A.16 — Dependence (D) under dissonance training (therapeutic scaffolding)

Together, these plots demonstrate how fiduciary regimes can transform dissonance into a source of resilience, consolidating autonomy and tolerance without collapsing the interdependence inherent in trust.

Figure A.14 — Epistemic Autonomy (EA) under Dissonance Training

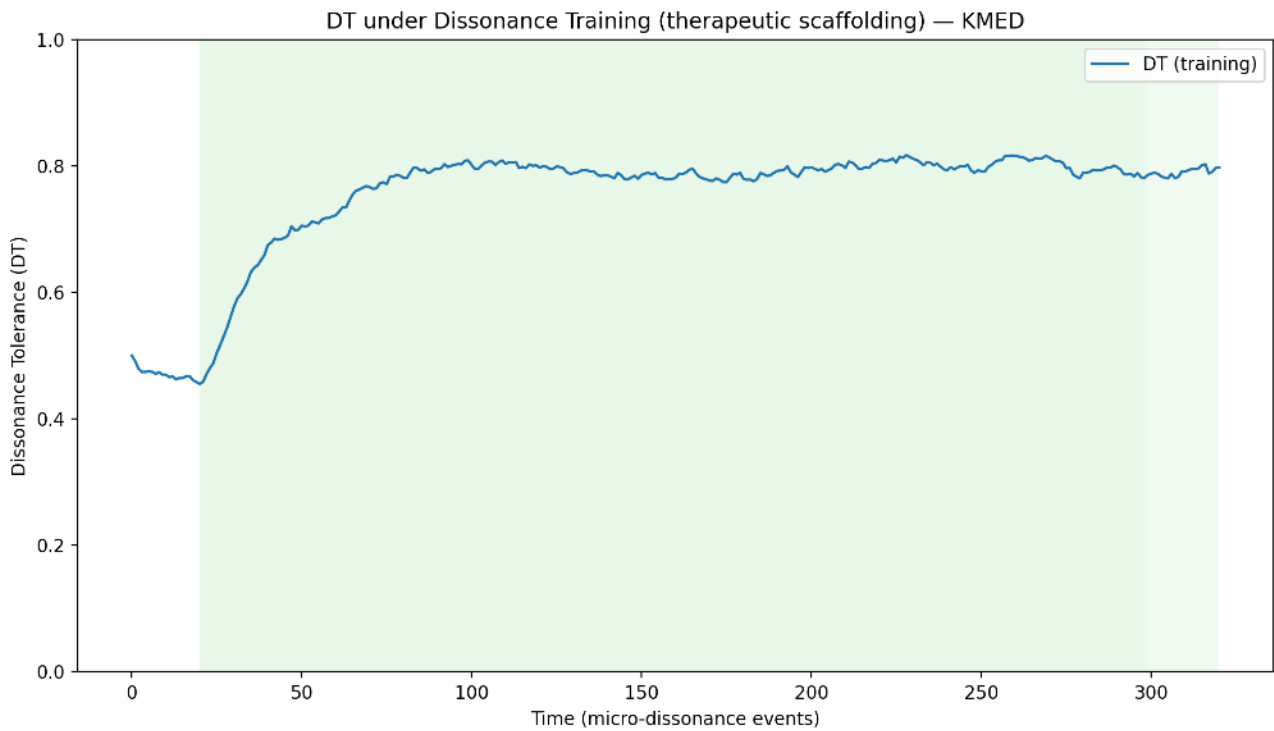


This plot tracks EA across repeated micro-dissonance events, with training beginning after the early baseline phase.

- Baseline (pre-training, $t \approx 0-25$): EA drifts slightly downward from ~ 0.5 toward ~ 0.45 , reflecting fragility before structured intervention.
- Training onset ($t \approx 25$): EA begins a steady recovery, rising through $\sim 0.6-0.7$.
- Stabilisation phase ($t \approx 100+$): EA consolidates at a high plateau ($\sim 0.75-0.8$) with minor fluctuations, showing resilience once scaffolding is established.

Interpretation: Therapeutic scaffolding enables autonomy not only to recover but to surpass baseline, stabilising at levels that are unattainable under suppression. Dissonance, when engaged in a structured and supportive way, becomes a vehicle of empowerment.

Figure A.15 — Dissonance Tolerance (DT) under Dissonance Training

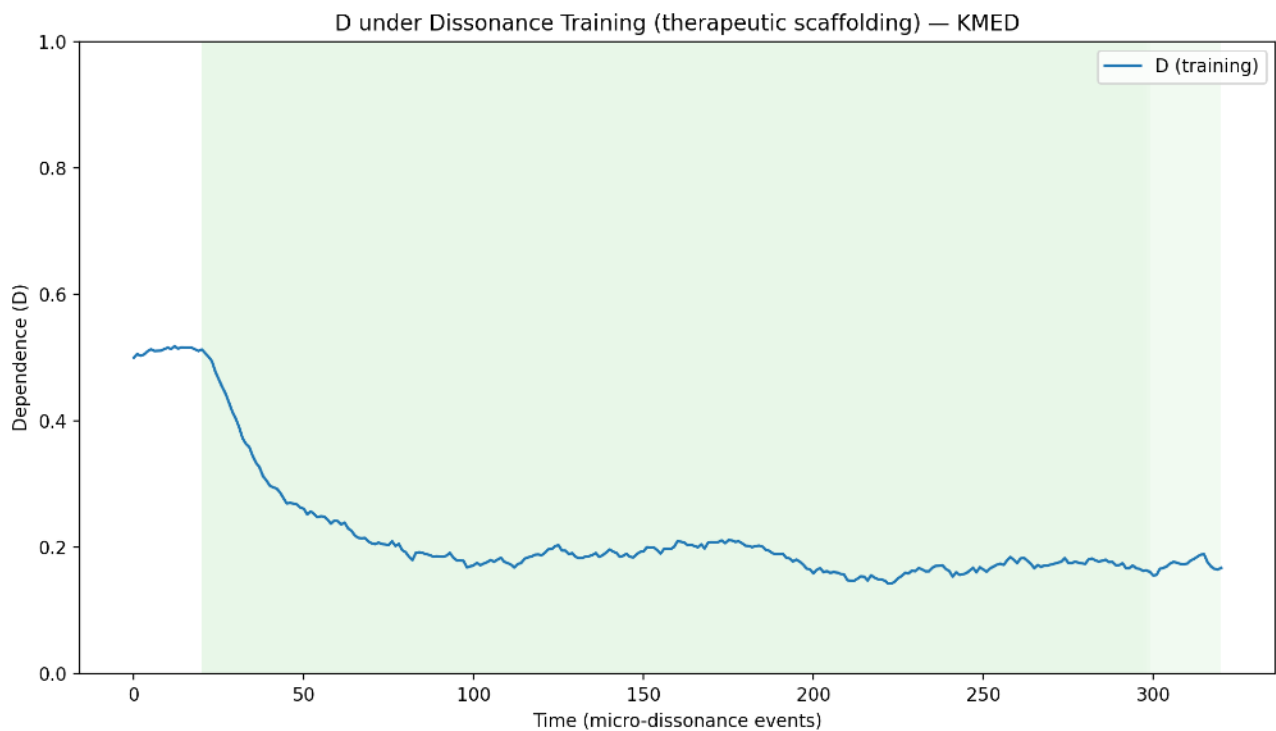


This plot tracks DT under the same therapeutic regimen.

- Baseline (pre-training): DT begins near 0.5, declining slightly before scaffolding.
- Training onset: DT rapidly increases, climbing past 0.6 and into the ~0.8 range.
- Stabilisation: DT holds steady between ~0.78–0.82, with modest fluctuations.

Interpretation: Training expands the agent’s tolerance for dissonance, turning what was once destabilising into a sustainable capacity. This reflects the therapeutic premise: dissonance, when scaffolded, is not corrosive but resilience-building.

Figure A.16 — Dependence (D) under Dissonance Training



This plot tracks D across the same events.

- **Baseline (pre-training):** D remains around 0.5, the uncorrected dependency level.
- **Training onset:** D declines sharply, falling toward ~0.2.
- **Stabilisation:** D settles at a low floor (~0.15–0.18), representing dignified, bounded reliance consistent with fiduciary scaffolding.

Interpretation: Dissonance training reduces dependence without eliminating it, acknowledging the inevitability of some interdependence. The key outcome is that reliance is no longer enforced by suppression but bounded by trust.

A.4 Code Listing

This section provides the full Python code for the five simulations presented in §A.3. The listings are included here for transparency, reproducibility, and further experimentation. Each simulation implements the Kahl Model of Epistemic Dissonance (KMED) in a slightly different scenario, ranging from baseline fiduciary vs clientelist regimes to therapeutic scaffolding and pathological oscillations.

All code is written in Python 3 with dependencies limited to `numpy`, `matplotlib`, and `os`. Scripts are provided in full below and are also available via the project’s GitHub repository:

<https://github.com/Peter-Kahl/KMED-Scripts>

Researchers and practitioners are invited to adapt and extend these scripts under the terms of the MIT Licence (see licence header in each code block). For conceptual context, refer back to §A.3, where each simulation is introduced and its outputs analysed.

A.4.1 Simulation 1 — Fiduciary scaffold vs clientelist suppression (single agent)

Implements the asymptotic form of KMED for a single agent under fiduciary scaffolding and clientelist suppression, generating the trajectories shown in Figures A.1–A.3 (§A.3.1).

Full code is below and on GitHub:

https://github.com/Peter-Kahl/KMED-Scripts/blob/main/sim1_fiduciary_vs_clientelist.py

```
# The Kahl Model of Epistemic Dissonance (KMED)
# Simulation 1: Fiduciary Scaffold vs Clientelist Suppression – KMED
# (Single agent, two regimes)
#
# Author: Peter Kahl
# First published: London, 25 September 2025
# Revision: Rev A (25 September 2025)
#
# Repository: https://github.com/Peter-Kahl/KMED-Scripts
# Script URL: https://github.com/Peter-Kahl/KMED-Scripts/blob/main/sim1_fiduciary_vs_clientelist.py
#
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# furnished to do so, subject to the following conditions:
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# The Software is provided “AS IS”, without warranty of any kind, express or
# implied, including but not limited to the warranties of merchantability,
# fitness for a particular purpose and noninfringement. In no event shall the
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# liability, whether in an action of contract, tort or otherwise, arising from,
# out of or in connection with the Software or the use or other dealings in
# the Software.
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import os
from pathlib import Path
import numpy as np
import matplotlib.pyplot as plt

rng = np.random.default_rng(42)
```

```

def step_asymptotic(x, k, theta, noise_std):
    eps = rng.normal(0.0, noise_std) if noise_std > 0 else 0.0
    x_next = x + k*(theta - x) + eps
    return float(np.clip(x_next, 0.0, 1.0))

def simulate_asym(
    T=250,
    EA0=0.5, DT0=0.5, D0=0.5,
    # regime targets (theta) and step sizes (k) for each variable
    EA_theta=0.75, EA_k=0.05,
    DT_theta=0.80, DT_k=0.06,
    D_theta =0.18, D_k =0.06,
    noise_std=0.004,
):
    EA = np.empty(T+1); DT = np.empty(T+1); D = np.empty(T+1)
    EA[0], DT[0], D[0] = EA0, DT0, D0
    for t in range(T):
        EA[t+1] = step_asymptotic(EA[t], EA_k, EA_theta, noise_std)
        DT[t+1] = step_asymptotic(DT[t], DT_k, DT_theta, noise_std)
        D[t+1] = step_asymptotic(D[t], D_k, D_theta, noise_std)
    return EA, DT, D

# --- Run both regimes with clear, regime-appropriate targets ---
T = 250
t = np.arange(T+1)

# Fiduciary scaffold: EA↑, DT↑, D↓
EA_f, DT_f, D_f = simulate_asym(
    T=T,
    EA_theta=0.74, EA_k=0.05,
    DT_theta=0.80, DT_k=0.06, # DT rises to ~0.8 (fixes inversion)
    D_theta =0.18, D_k =0.06,
    noise_std=0.004
)

# Clientelist suppression: EA↓, DT↓, D↑
EA_c, DT_c, D_c = simulate_asym(
    T=T,
    EA_theta=0.03, EA_k=0.06,
    DT_theta=0.08, DT_k=0.06, # DT falls toward ~0.08
    D_theta =0.65, D_k =0.04,
    noise_std=0.004
)

# Quick sanity prints (first 6)
print("Fiduciary DT (first 6):", np.round(DT_f[:6], 4)) # strictly increasing
print("Clientelist DT (first 6):", np.round(DT_c[:6], 4)) # strictly decreasing

# repo root is one level up from this script
BASE_DIR = Path(__file__).resolve().parent
OUTPUT_DIR = BASE_DIR / "outputs"
OUTPUT_DIR.mkdir(parents=True, exist_ok=True)

# --- Plots ---
plt.figure(figsize=(10,5.6))
plt.plot(t, EA_f, '-', label="EA (fiduciary)")
plt.plot(t, EA_c, '--', label="EA (clientelist)")
plt.xlabel("Time (micro-dissonance events)"); plt.ylabel("Epistemic Autonomy (EA)")
plt.title("EA under Fiduciary Scaffold vs Clientelist Suppression – KMED")
plt.legend(); plt.tight_layout(); plt.savefig(OUTPUT_DIR / "sim1_EA.png", dpi=200); plt.show()

plt.figure(figsize=(10,5.6))
plt.plot(t, DT_f, '-', label="DT (fiduciary)")
plt.plot(t, DT_c, '--', label="DT (clientelist)")
plt.xlabel("Time (micro-dissonance events)"); plt.ylabel("Dissonance Tolerance (DT)")
plt.title("DT under Fiduciary Scaffold vs Clientelist Suppression – KMED")
plt.legend(); plt.tight_layout(); plt.savefig(OUTPUT_DIR / "sim1_DT.png", dpi=200); plt.show()

plt.figure(figsize=(10,5.6))
plt.plot(t, D_f, '-', label="D (fiduciary)")
plt.plot(t, D_c, '--', label="D (clientelist)")
plt.xlabel("Time (micro-dissonance events)"); plt.ylabel("Dependence (D)")
plt.title("D under Fiduciary Scaffold vs Clientelist Suppression – KMED")
plt.legend(); plt.tight_layout(); plt.savefig(OUTPUT_DIR / "sim1_D.png", dpi=200); plt.show()

```

A.4.2 Simulation 2 — Regime Switching (Rupture → Repair)

Models an initial phase of clientelist suppression followed by fiduciary repair, producing the trajectories in Figures A.4–A.6 (§A.3.2).

Full code is below and on GitHub:

https://github.com/Peter-Kahl/KMED-Scripts/blob/main/sim2_regime_switching.py

```
# The Kahl Model of Epistemic Dissonance (KMED)
# Simulation 2: Regime Switching (Rupture → Repair) – KMED
# (Single agent: clientelist → fiduciary)
#
# Author: Peter Kahl
# First published: London, 25 September 2025
# Revision: Rev A (25 September 2025)
#
# Repository: https://github.com/Peter-Kahl/KMED-Scripts
# Script URL: https://github.com/Peter-Kahl/KMED-Scripts/blob/main/sim2_regime_switching.py
#
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import os
from pathlib import Path
import numpy as np
import matplotlib.pyplot as plt

rng = np.random.default_rng(42)

def step_asymptotic(x, k, theta, noise_std):
    """One-step asymptotic update toward theta with step size k, clipped to [0,1]."""
    eps = rng.normal(0.0, noise_std) if noise_std > 0 else 0.0
    x_next = x + k*(theta - x) + eps
    return float(np.clip(x_next, 0.0, 1.0))

def simulate_asym_schedule(
    T=300, Tswitch=150,
    EA0=0.5, DT0=0.5, D0=0.5,
    # Phase 1 (clientelist suppression) targets and step sizes
    EA_theta_1=0.05, EA_k_1=0.06,
    DT_theta_1=0.10, DT_k_1=0.06,
    D_theta_1=0.70, D_k_1=0.05,
    # Phase 2 (fiduciary scaffold) targets and step sizes
    EA_theta_2=0.74, EA_k_2=0.05,
    DT_theta_2=0.80, DT_k_2=0.06,
    D_theta_2=0.18, D_k_2=0.06,
    noise_std=0.004,
):
    """
    Piecewise-asymptotic simulation with a single regime switch at Tswitch.
    Returns EA, DT, D time series (length T+1).
    """
    EA = np.empty(T+1); DT = np.empty(T+1); D = np.empty(T+1)
    EA[0], DT[0], D[0] = EA0, DT0, D0

    for t in range(T):
```

```

        # choose regime by time
        if t < Tswitch:
            EA_theta, EA_k = EA_theta_1, EA_k_1
            DT_theta, DT_k = DT_theta_1, DT_k_1
            D_theta, D_k = D_theta_1, D_k_1
        else:
            EA_theta, EA_k = EA_theta_2, EA_k_2
            DT_theta, DT_k = DT_theta_2, DT_k_2
            D_theta, D_k = D_theta_2, D_k_2

        EA[t+1] = step_asymptotic(EA[t], EA_k, EA_theta, noise_std)
        DT[t+1] = step_asymptotic(DT[t], DT_k, DT_theta, noise_std)
        D[t+1] = step_asymptotic(D[t], D_k, D_theta, noise_std)

    return EA, DT, D

# -----
# Run the regime-switching sim
# -----
T = 300
Tswitch = 150
t = np.arange(T+1)

EA_s, DT_s, D_s = simulate_asym_schedule(
    T=T, Tswitch=Tswitch,
    # Phase 1: clientelist suppression (EA↓, DT↓, D↑)
    EA_theta_1=0.05, EA_k_1=0.06,
    DT_theta_1=0.10, DT_k_1=0.06,
    D_theta_1=0.70, D_k_1=0.05,
    # Phase 2: fiduciary scaffold (EA↑, DT↑, D↓)
    EA_theta_2=0.74, EA_k_2=0.05,
    DT_theta_2=0.80, DT_k_2=0.06,
    D_theta_2=0.18, D_k_2=0.06,
    noise_std=0.004
)

# -----
# Plots (mark the switch point)
# -----
def mark_switch(ax, Ts):
    ax.axvline(Ts, linestyle=":", linewidth=1.5)
    ax.text(Ts+2, 0.04, "switch\n(rupture → repair)", fontsize=9, va="bottom")

# repo root is one level up from this script
BASE_DIR = Path(__file__).resolve().parent
OUTPUT_DIR = BASE_DIR / "outputs"
OUTPUT_DIR.mkdir(parents=True, exist_ok=True)

# (1) Epistemic Autonomy
plt.figure(figsize=(10, 5.6))
plt.plot(t, EA_s, label="EA (regime switching)")
mark_switch(plt.gca(), Tswitch)
plt.xlabel("Time (micro-dissonance events)")
plt.ylabel("Epistemic Autonomy (EA)")
plt.title("EA under Clientelist → Fiduciary Regime Switching – KMED")
plt.ylim(0, 1); plt.legend(); plt.tight_layout()
plt.savefig(OUTPUT_DIR / "sim2_EA.png", dpi=200); plt.show()

# (2) Dissonance Tolerance
plt.figure(figsize=(10, 5.6))
plt.plot(t, DT_s, label="DT (regime switching)")
mark_switch(plt.gca(), Tswitch)
plt.xlabel("Time (micro-dissonance events)")
plt.ylabel("Dissonance Tolerance (DT)")
plt.title("DT under Clientelist → Fiduciary Regime Switching – KMED")
plt.ylim(0, 1); plt.legend(); plt.tight_layout()
plt.savefig(OUTPUT_DIR / "sim2_DT.png", dpi=200); plt.show()

# (3) Dependence
plt.figure(figsize=(10, 5.6))
plt.plot(t, D_s, label="D (regime switching)")
mark_switch(plt.gca(), Tswitch)
plt.xlabel("Time (micro-dissonance events)")
plt.ylabel("Dependence (D)")
plt.title("D under Clientelist → Fiduciary Regime Switching – KMED")
plt.ylim(0, 1); plt.legend(); plt.tight_layout()
plt.savefig(OUTPUT_DIR / "sim2_D.png", dpi=200); plt.show()

```


A.4.3 Simulation 3 — Intermittent clientelism vs stable fiduciary

Explores outcomes when clientelist suppression occurs intermittently versus continuous fiduciary scaffolding, generating Figures A.7–A.10 (§A.3.3).

Full code is below and on GitHub:

https://github.com/Peter-Kahl/KMED-Scripts/blob/main/sim3_intermittent_clientelism.py

```
# The Kahl Model of Epistemic Dissonance (KMED)
# Simulation 3: Intermittent clientelism vs stable fiduciary – KMED (asymptotic)
#
# Author: Peter Kahl
# First published: London, 25 September 2025
# Revision: Rev A (25 September 2025)
#
# Repository: https://github.com/Peter-Kahl/KMED-Scripts
# Script URL: https://github.com/Peter-Kahl/KMED-Scripts/blob/main/sim3_intermittent_clientelism.py
#
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import os
from pathlib import Path
import numpy as np
import matplotlib.pyplot as plt

rng = np.random.default_rng(42)

# repo root is one level up from this script
BASE_DIR = Path(__file__).resolve().parent
OUTPUT_DIR = BASE_DIR / "outputs"
OUTPUT_DIR.mkdir(parents=True, exist_ok=True)

# ----- KMED asymptotic step -----
def step_asymptotic(x, k, theta, noise_std):
    eps = rng.normal(0.0, noise_std) if noise_std > 0 else 0.0
    x_next = x + k * (theta - x) + eps
    return float(np.clip(x_next, 0.0, 1.0))

# ----- Targets (θ) / step sizes (k) per regime -----
# Fiduciary: EA†, DT†, D‡
F_PARAMS = dict(EA_theta=0.74, EA_k=0.05,
                DT_theta=0.80, DT_k=0.06,
                D_theta =0.18, D_k =0.06)

# Clientelist: EA‡, DT‡, D†
C_PARAMS = dict(EA_theta=0.03, EA_k=0.06,
                DT_theta=0.08, DT_k=0.06,
                D_theta =0.65, D_k =0.04)

def draw_regime(prev, p, rho=None):
    """
    Draw regime for this step.
    - If rho is None: IID draw; clientelist with prob p.
    - If rho in [0,1): two-state Markov with persistence rho.
    With prob rho, stay in previous regime; else flip w.r.t. base probs.
    Returns 'F' or 'C'.
    """
```

```

"""
if rho is None:
    return 'C' if rng.random() < p else 'F'
# Markov persistence
if prev is None or rng.random() > rho:
    # choose fresh according to base rate p
    return 'C' if rng.random() < p else 'F'
# persist
return prev

def simulate_intermit(
    T=600,
    EA0=0.5, DT0=0.5, D0=0.5,
    p_clientelist=0.2, # share of clientelist steps
    rho=None, # persistence (None = IID)
    noise_std=0.004
):
    EA = np.empty(T+1); DT = np.empty(T+1); D = np.empty(T+1)
    EA[0], DT[0], D[0] = EA0, DT0, D0

    regime = None
    for t in range(T):
        regime = draw_regime(regime, p_clientelist, rho)
        P = C_PARAMS if regime == 'C' else F_PARAMS

        EA[t+1] = step_asymptotic(EA[t], P['EA_k'], P['EA_theta'], noise_std)
        DT[t+1] = step_asymptotic(DT[t], P['DT_k'], P['DT_theta'], noise_std)
        D[t+1] = step_asymptotic(D[t], P['D_k'], P['D_theta'], noise_std)

    return EA, DT, D

# ----- Run for multiple clientelist shares -----
T = 600
t = np.arange(T+1)
p_grid = [0.0, 0.1, 0.2, 0.3, 0.5] # 0% ... 50% clientelist
rho = None # set to e.g. 0.8 to add streaks

EA_series, DT_series, D_series = {}, {}, {}
for p in p_grid:
    EA_series[p], DT_series[p], D_series[p] = simulate_intermit(
        T=T, p_clientelist=p, rho=rho, noise_std=0.004
    )

# ----- Trajectory plots -----
def plot_trajectories(series_dict, ylabel, title, fname):
    plt.figure(figsize=(10,5.8))
    for p, y in series_dict.items():
        plt.plot(t, y, label=f"p={p:.1f}")
    plt.xlabel("Time (micro-dissonance events)")
    plt.ylabel(ylabel)
    plt.title(title)
    plt.legend(title="Clientelist share")
    plt.tight_layout()
    plt.savefig(fname, dpi=200)
    plt.show()

plot_trajectories(EA_series, "Epistemic Autonomy (EA)",
    "EA under Intermittent Clientelism (variable share) – KMED",
    OUTPUT_DIR / "sim3_EA_trajectories.png")

plot_trajectories(DT_series, "Dissonance Tolerance (DT)",
    "DT under Intermittent Clientelism (variable share) – KMED",
    OUTPUT_DIR / "sim3_DT_trajectories.png")

plot_trajectories(D_series, "Dependence (D)",
    "D under Intermittent Clientelism (variable share) – KMED",
    OUTPUT_DIR / "sim3_D_trajectories.png")

# ----- Equilibria vs p (last-100-step mean ± 95% CI) -----
def tail_stats(y, tail=100):
    tail_vals = y[-tail:]
    m = float(np.mean(tail_vals))
    s = float(np.std(tail_vals, ddof=1))
    n = tail_vals.size
    ci = 1.96 * s / np.sqrt(n)
    return m, ci

EA_means, EA_cis = [], []
DT_means, DT_cis = [], []
D_means, D_cis = [], []

```

```

for p in p_grid:
    m, ci = tail_stats(EA_series[p]); EA_means.append(m); EA_cis.append(ci)
    m, ci = tail_stats(DT_series[p]); DT_means.append(m); DT_cis.append(ci)
    m, ci = tail_stats(D_series[p]); D_means.append(m); D_cis.append(ci)

plt.figure(figsize=(10,6))
for means, cis, label in [(EA_means, EA_cis, "EA"),
                          (DT_means, DT_cis, "DT"),
                          (D_means, D_cis, "D")]:
    means = np.array(means); cis = np.array(cis)
    plt.plot(p_grid, means, marker='o', label=label)
    plt.fill_between(p_grid, means-cis, means+cis, alpha=0.15)

plt.xlabel("Clientelist share (p)")
plt.ylabel("Equilibrium level (last-100-step mean)")
plt.title("Equilibrium EA / DT / D vs Clientelist Share – KMED")
plt.legend()
plt.tight_layout()
plt.savefig(OUTPUT_DIR / "sim3_equilibria_vs_p.png", dpi=200)
plt.show()

```

A.4.4 Simulation 4 — Gaslighting (oscillating recognition and suppression)

Simulates alternating phases of recognition and suppression to model gaslighting, with trajectories in Figures A.11–A.13 (§A.3.4).

Full code is below and on GitHub:

https://github.com/Peter-Kahl/KMED-Scripts/blob/main/sim4_gaslighting.py

```

# The Kahl Model of Epistemic Dissonance (KMED)
# Simulation 4 – Gaslighting (oscillating recognition and suppression) – KMED
# (Single agent; alternating short blocks of fiduciary recognition and clientelist withdrawal)
#
# Author: Peter Kahl
# First published: London, 25 September 2025
# Revision: Rev A (25 September 2025)
#
# Repository: https://github.com/Peter-Kahl/KMED-Scripts
# Script URL: https://github.com/Peter-Kahl/KMED-Scripts/blob/main/sim4_gaslighting.py
#
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import os
from pathlib import Path
import numpy as np
import matplotlib.pyplot as plt

# --- RNG (fixed for reproducibility) ---
rng = np.random.default_rng(42)

# repo root is one level up from this script
BASE_DIR = Path(__file__).resolve().parent

```

```

OUTPUT_DIR = BASE_DIR / "outputs"
OUTPUT_DIR.mkdir(parents=True, exist_ok=True)

# --- Asymptotic one-step updater (bounded in [0,1]) ---
def step_asymptotic(x, k, theta, noise_std):
    eps = rng.normal(0.0, noise_std) if noise_std > 0 else 0.0
    x_next = x + k * (theta - x) + eps
    return float(np.clip(x_next, 0.0, 1.0))

# --- Parameter presets for regimes ---
FIDUCIARY = dict(
    EA_theta=0.74, EA_k=0.05, # autonomy grows to high plateau
    DT_theta=0.80, DT_k=0.06, # tolerance consolidates under scaffolds
    D_theta =0.18, D_k =0.06 # dependence declines to dignified floor
)

CLIENTELIST = dict(
    EA_theta=0.03, EA_k=0.06, # autonomy collapses toward 0
    DT_theta=0.08, DT_k=0.06, # tolerance collapses
    D_theta =0.65, D_k =0.04 # dependence entrenches toward high level
)

def make_phase_pattern(T, start='fiduciary', min_len=18, max_len=32):
    """
    Build an alternating list of (regime, start_idx, end_idx) that covers 0..T-1.
    Each block length is uniformly sampled in [min_len, max_len].
    """
    phases = []
    t = 0
    current = start
    while t < T:
        block = int(rng.integers(min_len, max_len))
        end = min(T, t + block)
        phases.append((current, t, end)) # [t, end)
        t = end
        current = 'clientelist' if current == 'fiduciary' else 'fiduciary'
    return phases

def simulate_gaslighting(
    T=300,
    EA0=0.5, DT0=0.5, D0=0.5,
    start='fiduciary',
    min_len=18, max_len=32,
    noise_std=0.004
):
    """
    Alternate between fiduciary and clientelist blocks with random lengths
    to model oscillating recognition/withdrawal ("gaslighting").
    Returns EA, DT, D trajectories and the phase list for plotting.
    """
    EA = np.empty(T+1); DT = np.empty(T+1); D = np.empty(T+1)
    EA[0], DT[0], D[0] = EA0, DT0, D0

    phases = make_phase_pattern(T, start=start, min_len=min_len, max_len=max_len)
    # Pre-expand per-timestep regime parameters
    theta_k_series = []
    regime_by_t = np.empty(T, dtype=object)
    for regime, i0, i1 in phases:
        params = FIDUCIARY if regime == 'fiduciary' else CLIENTELIST
        for t in range(i0, i1):
            theta_k_series.append((
                params['EA_theta'], params['EA_k'],
                params['DT_theta'], params['DT_k'],
                params['D_theta'], params['D_k']
            ))
        regime_by_t[t] = regime

    # Update loop
    for t in range(T):
        EA_theta, EA_k, DT_theta, DT_k, D_theta, D_k = theta_k_series[t]
        EA[t+1] = step_asymptotic(EA[t], EA_k, EA_theta, noise_std)
        DT[t+1] = step_asymptotic(DT[t], DT_k, DT_theta, noise_std)
        D[t+1] = step_asymptotic(D[t], D_k, D_theta, noise_std)

    return EA, DT, D, phases

# --- Run simulation ---
T = 300
t = np.arange(T+1)
EA, DT, D, phases = simulate_gaslighting(
    T=T,

```

```

EA0=0.5, DT0=0.5, D0=0.5,
start='fiduciary',      # begin with brief recognition bursts
min_len=18, max_len=32, # short, destabilising blocks
noise_std=0.004
)

# --- Helper: shade phases on an axis ---
def shade_phases(ax, phases, ymax=1.0, fid_color=(0.6,0.9,0.6,0.25), cli_color=(0.9,0.6,0.6,0.25)):
    for regime, i0, i1 in phases:
        color = fid_color if regime == 'fiduciary' else cli_color
        ax.axvspan(i0, i1, color=color, linewidth=0)

# --- Plot 1: Epistemic Autonomy (EA) ---
fig, ax = plt.subplots(figsize=(10, 5.6))
shade_phases(ax, phases)
ax.plot(t, EA, label="EA (gaslighting)", lw=2)
ax.set_xlabel("Time (micro-dissonance events)")
ax.set_ylabel("Epistemic Autonomy (EA)")
ax.set_title("EA under Oscillating Recognition/Withdrawal (Gaslighting) – KMED")
ax.set_ylim(0, 1)
ax.legend()
fig.tight_layout()
fig.savefig(OUTPUT_DIR / "sim4_EA.png", dpi=200)
plt.show()

# --- Plot 2: Dissonance Tolerance (DT) ---
fig, ax = plt.subplots(figsize=(10, 5.6))
shade_phases(ax, phases)
ax.plot(t, DT, label="DT (gaslighting)", lw=2)
ax.set_xlabel("Time (micro-dissonance events)")
ax.set_ylabel("Dissonance Tolerance (DT)")
ax.set_title("DT under Oscillating Recognition/Withdrawal (Gaslighting) – KMED")
ax.set_ylim(0, 1)
ax.legend()
fig.tight_layout()
fig.savefig(OUTPUT_DIR / "sim4_DT.png", dpi=200)
plt.show()

# --- Plot 3: Dependence (D) ---
fig, ax = plt.subplots(figsize=(10, 5.6))
shade_phases(ax, phases)
ax.plot(t, D, label="D (gaslighting)", lw=2)
ax.set_xlabel("Time (micro-dissonance events)")
ax.set_ylabel("Dependence (D)")
ax.set_title("D under Oscillating Recognition/Withdrawal (Gaslighting) – KMED")
ax.set_ylim(0, 1)
ax.legend()
fig.tight_layout()
fig.savefig(OUTPUT_DIR / "sim4_D.png", dpi=200)
plt.show()

```

A.4.5 Simulation 5 — Dissonance Training (therapeutic scaffolding)

Introduces controlled pulses of dissonance under fiduciary scaffolds to model therapeutic or educational resilience training, producing Figures A.14–A.16 (§A.3.5).

Full code is below and on GitHub:

https://github.com/Peter-Kahl/KMED-Scripts/blob/main/sim5_dissonance_training.py

```

# The Kahl Model of Epistemic Dissonance (KMED)
# Simulation 5 – Dissonance Training (Therapeutic Scaffolding)
#
# Author: Peter Kahl
# First published: London, 25 September 2025
# Revision: Rev A (25 September 2025)
#
# Repository: https://github.com/Peter-Kahl/KMED-Scripts
# Script URL: https://github.com/Peter-Kahl/KMED-Scripts/blob/main/sim5_dissonance_training.py
#
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```

```

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import os
from pathlib import Path
import numpy as np
import matplotlib.pyplot as plt

rng = np.random.default_rng(42)

# repo root is one level up from this script
BASE_DIR = Path(__file__).resolve().parent
OUTPUT_DIR = BASE_DIR / "outputs"
OUTPUT_DIR.mkdir(parents=True, exist_ok=True)

# ----- Core updater -----
def step_asymptotic(x, k, theta, noise_std):
    eps = rng.normal(0.0, noise_std) if noise_std > 0 else 0.0
    x_next = x + k*(theta - x) + eps
    return float(np.clip(x_next, 0.0, 1.0))

# ----- Therapeutic training with session-driven target adaptation -----
def simulate_training(
    T=320,
    # initial (post-clientelist) state
    EA0=0.5, DT0=0.5, D0=0.5,
    # baseline (pre-therapy) targets  $\theta_{\text{base}}$  and final therapy targets  $\theta_{\text{final}}$ 
    EA_theta_base=0.25, DT_theta_base=0.30, D_theta_base=0.60,
    EA_theta_final=0.75, DT_theta_final=0.80, D_theta_final=0.18,
    # step sizes outside sessions (slow drift) vs in sessions (faster learning)
    EA_k_base=0.025, DT_k_base=0.025, D_k_base=0.030,
    EA_k_sess=0.060, DT_k_sess=0.070, D_k_sess=0.060,
    # rate at which the *targets* move toward final values during a session
    theta_adapt_rate=0.20, # how quickly therapy pushes  $\theta$  toward  $\theta_{\text{final}}$ 
    theta_consolidate_rate=0.02, # gentle consolidation between sessions
    # schedule: list of (start, duration) *in time steps* for therapy sessions
    sessions=None,
    noise_std=0.004
):
    """
    Sessions model structured 'dissonance training' (graded exposure + validation).
    During sessions: (i) larger k (faster movement toward  $\theta$ ), and
                    (ii)  $\theta$  itself is nudged toward  $\theta_{\text{final}}$ .
    Between sessions: small consolidation of  $\theta$  toward  $\theta_{\text{final}}$ .
    """
    if sessions is None:
        # Default: 8 sessions of 20 steps each, every 40 steps starting at t=20
        sessions = [(20 + i*40, 20) for i in range(8)]

    # Precompute boolean mask for "in session"
    in_session = np.zeros(T+1, dtype=bool)
    for s, d in sessions:
        in_session[s : min(s+d, T+1)] = True

    # time-varying targets ( $\theta$ ) start at base and adapt over time
    EA_theta = EA_theta_base
    DT_theta = DT_theta_base
    D_theta = D_theta_base

    # state trajectories
    EA = np.empty(T+1); DT = np.empty(T+1); D = np.empty(T+1)
    EA[0], DT[0], D[0] = EA0, DT0, D0

    for t in range(T):
        if in_session[t]:

```

```

        # in-session: push targets toward final values (therapy work)
        EA_theta += theta_adapt_rate * (EA_theta_final - EA_theta)
        DT_theta += theta_adapt_rate * (DT_theta_final - DT_theta)
        D_theta += theta_adapt_rate * (D_theta_final - D_theta)
        # faster learning within sessions
        ea_k, dt_k, d_k = EA_k_sess, DT_k_sess, D_k_sess
    else:
        # between sessions: gentle consolidation toward final values
        EA_theta += theta_consolidate_rate * (EA_theta_final - EA_theta)
        DT_theta += theta_consolidate_rate * (DT_theta_final - DT_theta)
        D_theta += theta_consolidate_rate * (D_theta_final - D_theta)
        # slower drift between sessions
        ea_k, dt_k, d_k = EA_k_base, DT_k_base, D_k_base

    # one asymptotic step for each variable
    EA[t+1] = step_asymptotic(EA[t], ea_k, EA_theta, noise_std)
    DT[t+1] = step_asymptotic(DT[t], dt_k, DT_theta, noise_std)
    D[t+1] = step_asymptotic(D[t], d_k, D_theta, noise_std)

    return EA, DT, D, in_session

# ----- Run & Plot -----
T = 320
t = np.arange(T+1)
sessions = [(20 + i*40, 20) for i in range(8)] # shown as green bands

EA_tr, DT_tr, D_tr, in_sess = simulate_training(T=T, sessions=sessions)

# Helper: shade therapy sessions
def shade_sessions(ax, in_session_mask, color_good="#e8f7e8", alpha=0.6):
    in_block = False
    start = None
    for i in range(len(in_session_mask)):
        if in_session_mask[i] and not in_block:
            in_block = True; start = i
        if (not in_session_mask[i] and in_block) or (in_block and i == len(in_session_mask)-1):
            end = i if not in_session_mask[i] else i+1
            ax.axvspan(start, end, color=color_good, alpha=alpha, lw=0)

# (1) Epistemic Autonomy
plt.figure(figsize=(10, 5.8))
ax = plt.gca()
shade_sessions(ax, in_sess) # therapy windows
plt.plot(t, EA_tr, label="EA (training)")
plt.ylim(0, 1.0)
plt.xlabel("Time (micro-dissonance events)")
plt.ylabel("Epistemic Autonomy (EA)")
plt.title("EA under Dissonance Training (therapeutic scaffolding) – KMED")
plt.legend(); plt.tight_layout(); plt.savefig(OUTPUT_DIR / "sim5_EA.png", dpi=200); plt.show()

# (2) Dissonance Tolerance
plt.figure(figsize=(10, 5.8))
ax = plt.gca()
shade_sessions(ax, in_sess)
plt.plot(t, DT_tr, label="DT (training)")
plt.ylim(0, 1.0)
plt.xlabel("Time (micro-dissonance events)")
plt.ylabel("Dissonance Tolerance (DT)")
plt.title("DT under Dissonance Training (therapeutic scaffolding) – KMED")
plt.legend(); plt.tight_layout(); plt.savefig(OUTPUT_DIR / "sim5_DT.png", dpi=200); plt.show()

# (3) Dependence
plt.figure(figsize=(10, 5.8))
ax = plt.gca()
shade_sessions(ax, in_sess)
plt.plot(t, D_tr, label="D (training)")
plt.ylim(0, 1.0)
plt.xlabel("Time (micro-dissonance events)")
plt.ylabel("Dependence (D)")
plt.title("D under Dissonance Training (therapeutic scaffolding) – KMED")
plt.legend(); plt.tight_layout(); plt.savefig(OUTPUT_DIR / "sim5_D.png", dpi=200); plt.show()

# Quick sanity: last-100-step means (therapeutic “equilibria”)
print("Final (mean of last 100 steps):",
      f"EA={EA_tr[-100:].mean():.3f}, DT={DT_tr[-100:].mean():.3f}, D={D_tr[-100:].mean():.3f}")

```

A.5 Notes on Licensing and Reuse

All mathematical formulations, explanatory text, and figures in this appendix are licensed under Creative Commons BY-NC-ND 4.0, permitting non-commercial sharing with attribution and without modification.

All Python code listings (Simulations 1–5) are licensed under the MIT Licence, permitting reuse, adaptation, and redistribution with attribution.

For full licence texts, see the front matter; for downloadable scripts, see the GitHub repository <https://github.com/Peter-Kahl/KMED-Scripts>.

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Edition History

Edition	Description of Changes	Epistemic Impact	Date
—	Initially titled <i>Epistemic clientelism in intimate relationships: The family as crucible of autonomy and dependence in psychology and psychiatry</i>	None	2025-09-23

Edition	Description of Changes	Epistemic Impact	Date
2	<p>Title revised to <i>Epistemic Clientelism in Intimate Relationships: The Kahl Model of Epistemic Dissonance (KMED) and the Foundations of Epistemic Psychology</i>.</p> <p>Introduction strengthened to highlight KMED as the first formal mathematical model of epistemic dynamics in intimacy.</p> <p>Appendix A added, providing full mathematical specification of KMED, Python implementations, and simulation results (EA, DT, D trajectories) confirming theoretical predictions.</p> <p>Abstract, roadmap, and several chapters revised for consistency with modelling contribution.</p>	<p>Establishes KMED as a formal, testable framework in epistemic psychology.</p> <p>Moves the paper from purely conceptual/theoretical analysis into a mathematical-computational contribution, enabling replication, critique, and extension.</p> <p>Provides visual and quantitative confirmation of key claims (e.g., fiduciary scaffolds foster resilience, clientelist regimes corrode agency).</p> <p>Positions the work at the frontier of computational epistemic psychology.</p>	2025-09-25

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