

Gyula Klima as medievalist

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Abstract

This essay provides a broad introduction to Gyula Klima's contributions in the field of medieval philosophy, with special attention to his pioneering writings in semantics and on the 14th-century arts master and rector at the University of Paris John Buridan. Klima's scholarship provides one of the best examples available among philosophers living today not only of how to read thinkers in the medieval tradition, but also of how the effort to understand a radically different paradigm embodied in that reading provides the first steps to resolving broader problems of communication across distinct traditions and subdisciplines in philosophy at large.

1 Introduction

This essay provides a broad overview of Gyula Klima's writings as a philosopher, logician, translator and historian of medieval thought. I begin with an account of Klima's pioneering contributions in the field of medieval semantics. From there, I examine his work editing, translating, and in engagement with the Parisian arts master and logician John Buridan. I close with some remarks on the unique character and import of Klima's work as a historian of medieval philosophy within today's philosophical landscape.

2 Gyula Klima's contributions in the history of semantics

Klima's scholarship stretches historically from some of philosophy's best-known figures in Anselm, Aquinas, Ockham and Descartes to lesser-known figures including Thomas of Sutton and Henry of Ghent, to Frege, Geach, Kenny, and others who have produced some of the most impactful scholarship in the analytic tradition; and thematically from debates on identity, categories, and causation in metaphysics, on skepticism in epistemology and theories of mental content in philosophy of mind, to others too numerous to mention.

Klima's influence to date is most felt in the history of semantics. From his earliest contributions to the field, Klima recognized that on account of its limited interest in developing the semantics of propositions as a precondition for the development of a theory of consequence, the traditional apparatus of classical semantics affords less attention to the components of propositions themselves. Klima fills this lacuna by providing some of the earliest and most ambitious applications of restricted quantification in the history and philosophy of logic, using it both to formalize the medieval theory of *supposition*¹ and to provide a general account of quantitatively ambiguous natural language sentences.² Elsewhere, Klima's formalizations of supposition theory specifically and medieval semantics more broadly provide us with an account of abstract and connotative terms (Klima 1991b), a semantic foundation for Aquinas' theory of the analogy of being (Klima 1996, 2002a), and a clean resolution of the problem of existential import in the Aristotelian square of opposition.³

2.1 Decoupling *via antiqua* and *via moderna* semantics from metaphysics

In one sustained thread of that work, Klima decouples *via antiqua* and *via moderna* semantics from the realist and anti-realist metaphysics with which they are most commonly paired, contending that neither semantics by itself strictly entails its associated metaphysics (Klima 1999, 2011b). Rather, archtypical realists were required to adopt non-straightforward semantic accounts of the meanings of terms in at least some cases by their antecedent metaphysical commitments (e.g. to divine simplicity) (Klima 2002b), while some of the best known nominalist logicians incorporated what today would be regarded as realist elements in their logic (Klima 2005). For Klima, the *via antiqua* and *via moderna* traditions of medieval logic differ not in their *quantity* of ontological commitments, but in the tools they provide for *handling* ontological commitments, which in turn differ from those of the model-theoretic framework dominant today.

Via antiqua semantics takes an affirmative statement to be true when what is signified by its predicate inheres in what is signified by its subject - sometimes called the *inherence theory of predication*. Within this framework, terms predicating common natures or accidental features of a subject are taken to ultimately refer to exactly the categorical entities one might expect. But the framework avoids full, immediate, fundamental commitment to entities today's nominalists might find objectionable by providing a rich theory according to which being is predicated in different degrees.⁴

Conversely, the *via moderna* framework that became ascendant after William of Ockham takes an affirmative statement to be true when its subject and predicate term refer to the same object - sometimes called the *identity theory of*

¹See (Read 2019) for an overview.

²(Klima 1988, 1990, 1991a; Klima and Sandu 1990). Cf. (Parsons 2014).

³(Klima 2001). Cf (Read 2015).

⁴See (Klima 2002a).

predication. Within this framework, terms predicating common natures or accidental features of a subject need not be taken to ultimately refer to different types of objects such as abstract genera or relations, but instead refer to familiar objects *differently*. For example, the truth of ‘Socrates is a father’ does not require commitment to a distinct entity that is Socrates’ fatherhood. Instead, the sentence’s predicate may (non-rigidly) refer to Socrates himself, albeit connoting his being a father, and hence refer to the same object as that rigidly referred to by the proper name ‘Socrates’. Granting some license for intensional contexts,⁵ the verb ‘is’ or ‘exists’ in *via moderna* semantics is equally ontologically committing in its various uses, but *what* one is committed to by its uses need not be immediately apparent (Klima 2008c, pp. 437–430).

Both medieval frameworks would reject the object-language metalanguage distinction taken for granted since Tarski in their theory of truth, and in their use of ampliation for tensed, modal, and intensional contexts, both provide ample tools for rejecting a naïve application of Quine’s account of ontological commitment in terms of existential quantification.⁶

2.2 Ontological neutrality and independence

None of this means that there is *no* relationship between an author’s positions in metaphysics and his semantics: rather, the semantic framework an author adopts conditions what options that author has in metaphysics without fully determining them. For example, extreme realism in metaphysics doesn’t follow strictly from the *via antiqua*’s inherence theory of predication, but it is the most natural fit for that theory if one accepts the view that terms signifying accidental being denote their referents rigidly while rejecting that framework’s insistence on multiple, analogically related senses of ‘being’ (Klima 1999, p. 125). Conversely, the broad outlines of Ockham’s account of the relation between language, thought, and reality serve not only as a foundation for Ockham’s own metaphysical reductionism, but also for the realism of a Descartes, Malebranche, Putnam or a Leibniz (Klima 1991b).

There is, however, no relationship of *entailment* from purely semantic principles to metaphysical truths. Klima writes:

To be sure, this is not to say that metaphysical principles are to be derived from, or somehow justified in a weaker sense on the basis of, semantic principles. Metaphysical principles, being first principles using the most general terms, such as the transcendentals and the categories, cannot be derived from prior principles, and their terms cannot be defined on the basis of more general terms. What semantics can do, however, is that it can provide the principles of interpretation of metaphysical principles. On the basis of these principles of interpretation the implications of metaphysical principles are more clearly delineated, which then can be used in their evaluation in

⁵See (Klima 2005).

⁶Cf. (Klima 2004), (Klima 2009b, pp. 171–174).

dialectical disputations concerning their acceptability in the interpretations thus clarified. Furthermore, if the semantic principles of interpretation are made explicit, they can also be subject to further evaluation, in a disputation on a different level, the sort appropriate to the comparison of different logical theories (Klima 2011a, p. 49).

Modern mathematics names a relation quite close to this in its notion of *independence*, though as the name implies the fundamental notion itself is by no means a recent one. Just as Cantor’s continuum hypothesis is neither provable nor refutable from the principles of Zermelo-Fraenkel set theory alone, or - to provide a more medieval example - truths of revealed theology are neither provable nor refutable from the principles of natural philosophy, neither on Klima’s account are metaphysical principles provable or refutable from those of semantics alone.

2.3 Pluralism, linguistic imperialism, and the problem of cross-cultural communication

Two complications distinguish the semantic case from those mentioned. The first is that while both the set-theoretic and theological case mentioned above concern provability and refutability in a single system, the sheer multiplicity of semantic frameworks itself may provide a barrier to a broadly acceptable account of provability across those frameworks. The second generalizes a problem nearly the opposite of that established by Gödel in his first incompleteness theorem (Gödel 1931): where that theorem established the expressibility of unprovable claims of number theory in any sufficiently robust system, the semantic problem we face here is that a claim of metaphysics may be taken to be established or refuted merely on account of the lack of expressibility of the particular semantic framework one occupies.

Klima’s response to these problems is anti-pluralist without thereby being dogmatically classical. While it would be easy enough to, for instance, construct a metalogical account of validity by quantifying over distinct logical systems on the model of possible world semantics and regarding as valid all and only those theorems valid in every system, Klima instead recognizes the known limitations of classical semantics while also taking the provable equivalence of systems containing distinct logical primitives as *prima facie* evidence for the possibility of a fundamental diversity at the *conceptual* level that nevertheless doesn’t entail a despairing or indifferent anti-realism at the *metaphysical* level (Klima 2012). Instead, Klima’s response, both technically and philosophically, is to *extend the framework*. Meeting the tradition where it is, he extends classical semantics to allow for treatment of donkey anaphora (Klima 1988, 2010), non-existent entities (Klima 2001), and quantificational phenomena (Klima and Sandu 1990), while more broadly appealing (in a rare quote of a ‘continental’ philosopher that shows up in multiple places throughout his *œuvre*) to the possibility of a ‘fusion of horizons’ mentioned by Gadamer as a solution to the impasse of communication across distinct semantic frameworks, cultures, or philosophical

traditions and the attitude of metaphysical anti-realism it encourages (Klima 2000, 2009a).

3 John Buridan

Nowhere has this effort been more sustained than in Klima's scholarship on John Buridan', which has helped elevate the 14th century arts master from a lesser-known figure to one whose stature is closer to that of an Ockham, arguably surpassing the Franciscan in his logic.

Like the study of medieval contributions to logic and philosophy of science in the early 20th century more broadly, the resurgence of interest in Buridan's writings at that time was stimulated by both their promise as a resource for solving contemporary problems in those disciplines and the way in which they seemed to herald contemporary developments: Duhem, for instance, held out Buridan's theory of impetus as a precursor to Galileo's account of projectile motion; Boehner took the logical systems of Buridan and his contemporaries to be closer to the formal work of the Lvov-Warsaw school than to the anti-formalist tendencies in neo-scholastic textbooks of the day (Boehner 1952), and Louise Nisbet Roberts took Buridan's solution to the Liar paradox to anticipate that of Tarski (Roberts 1953, p. 100). This interest paved the way for critical editions of Buridan's writing, beginning with Hubien's edition of his *Tractatus de consequentiis* in 1976 and later extending to his output on logic, philosophy of mind, physics and metaphysics.⁷

Klima has built on these contributions both straightforwardly as an editor and translator as well as critically across his articles, books, and various other scholarly contributions. The subtlety of Klima's work as a translator is apparent throughout his translation of Buridan's massive *Summulae de dialectica*, whose footnotes provide an interesting window not only into the text itself, but also into Klima's own decisions on how to translate a text whose parts are frequently concerned with linguistic imprecision and ambiguity. Take, for instance, the following footnote text introducing his translation of the Latin *passio* as 'attribute' early on in treatise 1:

The term *passio*, deriving from the verb *pati* (to suffer, to be affected/acted on, to undergo change), has the primary sense of something affecting a subject (which receives the action of an agent). But since the relation between the term signifying such an affection and the term that signifies the subject is analogous to the relation between the affection itself and the subject itself, the term signifying the affection is also called a *passio* (and the term signifying the subject is also called *subiectum*). Therefore, in this technical sense, whenever a *passio* is correlated with a *subiectum*, referring to a term that is attributed to a subject term in an act of predication, I will translate *passio* as 'attribute'. Whenever *passio* is used to refer to

⁷See the extensive bibliography provided in (Zupko 2018).

the correlative of some action, however, as is normally the case in the context of Aristotelian physics, or to the correlative category of the category of action, or to the third species of the category of quality discussed below (3.5.4), as is usually the case in the context of the theory of categories, I will use the customary English transcription ‘passion’. To be sure, even despite existing translational traditions to this effect, this may occasionally sound odd, given the primary contemporary meaning of the term indicating some strong emotion (which is actually quite fitting in the case of the third species of quality, especially in 3.5.4(2)). But this will be very useful when Buridan exploits some of the conceptual relations between the notions of ‘passion’ in the technical senses intended here and those of being affected, being acted on, undergoing change, suffering (as the Passion, i.e., the suffering of Christ), and passion in the emotional sense, all of which are conveyed by the Latin *passio* (John Buridan 2001, p. 5).

In this example (which apart from its discussion of present-day English idiom could well pass for a translation of one among the better specimens of scholastic Latin), Klima’s parsing out the different significations of the term *passio*, relating its meaning to that of its English derivative, then justifying different translations for different contexts provides a worthy example of how Klima’s long study of Buridan’s logic and semantics itself inform his translation of the very Latin texts conveying them.

Klima’s Buridan scholarship contrasts with that of preceding generations, however, in three main respects. The first is its breadth: the arc of Klima’s scholarship - first gaining notoriety in the fields of logic and semantics, extending from there into medieval natural philosophy and metaphysics, and with an increased focus in recent decades on philosophy of mind and epistemology culminating in a critical edition of and companion volume to Buridan’s *Quaestiones De Anima* - has over time expanded to cover the whole territory of Aristotle’s ‘semantic triangle’ mapping out the relations between word and thing through the mediation of concepts. Because of this, Klima’s body of work provides what is arguably the most integrated and complete account of John Buridan’s philosophy to date.

The second is its stance vis-a-vis contemporary analytic philosophy. Where much earlier scholarship on Buridan’s thought stressed its proximity to recent discoveries to lend it greater credibility, Klima has more often used this proximity to challenge contemporary positions on their own terms. For example, where every well-known model theory since Tarski both identifies truth in a model with satisfaction and grounds its account of logical consequence on that of truth, leading Tarski himself to regard all semantically closed languages as inconsistent (Tarski 1943, pp. 348–349), Klima shows Buridan both rejects the Tarskian identification and inverts the above grounding relation between consequence and truth. Reason for rejecting the first can be found without recourse to semantic paradoxes, merely by considering statements like ‘no sentence is

negative’ whose satisfaction conditions preclude them from being true at their time of utterance (Klima 2004, pp. 96–100). Furthermore, not only is there is no need for an account of satisfaction grounding that of consequence to do double duty as an account of truth, but because statements may fail to be true by being inherently inconsistent with what they posit (as occurs with ‘no sentence is negative’), or merely contingently so (as occurs with reciprocal liar sentences that in other contexts would be merely true or false), the semantics for terms like ‘true’ and ‘false’ themselves presuppose a notion of entailment like that hinted at in Buridan’s idea of a sentence virtually implying its own truth.⁸ Consequently, a sentence meeting its satisfaction conditions constitutes a necessary, but not a sufficient condition for its truth, and the T-Schema for truth is simply mistaken. In another example, Klima inserts Buridan into the dispute between Quine and his fictional interlocutor Wyman over what exists to argue both are mistaken not in the particularities of their approach to ontological commitment, but more broadly in accepting a context-insensitive quantifier with its tacit assumption of the availability of a metalinguistic ‘view from nowhere’ as a criterion for ontological commitment at all: ‘the solution Buridan offers is not an overall split between object-language and meta-language but a more careful regulation of the reflective uses of the same language’ (Klima 2009b, p. 174). More recently, Klima has expanded the differences expressed archtypically here in different attitudes towards the object-metalanguage distinction into a concise summary of the different orientations of the medieval project Buridan engaged in and that which animated Quine, Tarski and the tradition after them:

- (1) The “modern project”: to “cannibalize” ever greater portions of all possible forms of natural language reasoning, expand the expressive resources of our formal language(s) for which we can have a uniform definition of validity, grounding the construction of a universal method for checking validity either in terms of deduction rules or a compositional semantics.
- (2) The “medieval project”: to “regulate” ever greater portions of all possible forms of natural language reasoning, regiment the syntax of our natural language as much as ordinary usage would tolerate, so as to be able to accommodate as many forms of natural language reasoning as possible, and thus to be able to separate valid from invalid consequences in accordance with a range of different criteria of validity.⁹

This depth of its critical engagement with both medieval and modern philosophy has often led to a certain prescience in its themes and positions: his use of restricted quantifiers in formalizing Buridan’s logic predates revived interest in these in work on relevant logic and semantic paradox by roughly twenty years;¹⁰ his formalization of the medieval square of opposition, on which the existential import of categorical sentences is determined by their quality (affirmative or

⁸(Klima 2004, pp. 101–107). Cf. (Klima 2009b, pp. 221–225), (Hughes 1982, pp. 22–27).

⁹(Klima 2016, p. 341). Cf. (Klima 2008c, pp. 429–430).

¹⁰Cf. (Klima 1988), (Beall et al. 2006), (Field 2014). For earlier work, see (Hailperin 1957a,b)

negative) rather than their quantity (universal or particular), significantly pre-dates comparable formal treatments in ancient and medieval logic,¹¹ and his early analysis of suppositional descents is echoed in articles on pronouns and donkey anaphora being published as this paper is being written.¹²

4 Klima as historian

The third respect in which Klima’s Buridan scholarship, and indeed his work as a medievalist as a whole, has distinguished itself is in its orientation towards its source material. While the above shows Klima amply capable of both ‘pure’ historical scholarship and bringing medievals into engagement with his contemporaries, much of his work goes beyond that to broader questions of how this history has occasioned the adoption of beliefs widely held today, and by extension the impasses they lead to. In this way, Klima’s reading of Buridan, Ockham, Aquinas and others does not so much mine them as resources for arguments and positions as it takes their study as part of a kind of philosophical disaster recovery program. In various places his writings begin with one question only to lead their reader to a higher one: moving, for instance, in his Stanford Encyclopedia article on medieval theories of universals from the various questions arising out of Plato’s theory of forms that the medievals inherited from Porphyry via Boethius to a consideration of how the debate factored into the disintegration of scholastic discourse (Klima 2017); or from considering changes to the notion of an efficient cause in the late medieval period to the impact of those changes on how we continue to think about knowledge and certainty today (Klima 2013). In a review of Anthony Kenny’s *Aquinas on Mind*, Klima contrasts that book’s approach of making Aquinas’ ideas ‘accessible to the philosophically interested contemporary reader in terms of such philosophical, scientific and everyday concepts with which the reader can safely be assumed to be familiar’ (Klima 1998, p. 113) with his own approach as follows:

First, as should be obvious, we shall never understand properly any of Aquinas’s theories without first “learning his language”. However, “learning his language” does not mean just learning Latin, but rather acquiring the radically different conceptual apparatus encoded in his language, constantly reflecting on how this different apparatus constitutes its own self-evident truths, while questioning the validity of what we take to be self-evident truths on account of the conceptual apparatus encoded in our philosophical language. Second, we shall never be able to communicate our understanding of Aquinas authentically unless we learn how to “teach his language” (ibid., p. 115).

For the kind of teaching that Klima is demanding here, let us consider an example from elsewhere in his *corpus*, where he leverages a comparison to modern

¹¹Cf. (Klima 1988, pp. 18–43), (Chatti and Schang 2013) (Read 2015).

¹²Cf. (Klima 1990), (Blumberg 2021)

thermodynamics into a defense of a claim from Aristotle's *Physics*, oft-quoted by Aquinas, that 'man is generated by man and the sun':

[A] universal cause as Aquinas thinks about it, is certainly not a universal in its being (given that Aquinas rejects Platonic universals), but in its causality: a particular cause is the cause of only this particular effect, whereas a universal cause is a cause of several particulars of a given kind. However, an immediate consequence of this interpretation and the above-demonstrated irreflexivity of *per se* efficient causality is that a universal cause of a given kind of particulars itself cannot be of the same kind; for otherwise, being the cause of all particulars of the same kind, it would have to be a cause of itself, which is impossible. Therefore, the universal cause of a species cannot be a member of the same species: it has to be a non-univocal cause, that is to say, the form by virtue of which it acts and produces and/or sustains its effects is not the same form that it brings about in its effects. This is the reason that talking about more or less universal causes, which Aquinas also explicitly identifies with more or less remote causes, he means not only that the causality of a more universal cause extends to more kinds, but also that the reason why its causality covers more kinds of effects is that it is causing them in a more universal respect: it has a power and a corresponding activity that can be received in so many different ways by different kinds of recipients, as the radiation of the sun received as heat in water powers the water cycle around the globe, while received in the chloroplasts of plants, it powers (most of) the biosphere (Klima 2013, p. 41)

The unintuitiveness of this claim itself provides a solid test case for the kind of work that Klima takes to be necessary for understanding medieval philosophy, and with it for understanding how its developments both presage and hint at ways out of our own persistent philosophical impasses. Within the pages preceding this selection, Klima outlines the notion of efficient causality largely taken for granted today as a diachronic relation holding between events, contrasts it with the medieval notion as a synchronic relation between individual things, and lays the groundwork for showing how the medieval notion is in certain ways closer to the scientific accounts used today in thermodynamics and information theory. The charity Klima aims for here is fundamentally higher than that typically afforded to this and other historically discarded theories - not merely to explain how it could have been believed given the information available and/or the psychological makeup of the inhabitants at the time, but to explain how such claims *understood on their own terms* could themselves approximate the truth.¹³

¹³Cf. (Rovelli 2015).

5 Conclusion

Despite the depth and breadth of his work, the amount of space Klima devotes to advancing positions that are unambiguously his own, rather than to steel-manning positions of historical or contemporary figures he may or may not agree with, is comparatively little.¹⁴ Still, Klima's solution here provides a window into the answer to a more personal question that his scholarship solicits: namely, of all the intellectual pursuits to devote oneself to, why study medieval philosophy, and specifically medieval semantics?

In one uncommonly autobiographical passage, Klima writes:

I remember that when I was at Notre Dame (so this happened in the second half of the nineties), I asked several of my colleagues, and even the then visiting David Armstrong, to provide metaphysically non-committal clarifications of the semantics of the language they were using in describing their metaphysical theories. In response, I was given puzzled looks and declarations strongly reminiscent of the way medieval nominalists characterized the attitude of their realist opponents: we don't care about names; we go right to the things themselves!—Well, just look at the history of late-scholasticism and early modern philosophy to see what good that attitude did for them.

So, what can we do to avoid the late-scholastic scenario, going on another cycle of endless and more and more meaningless metaphysical debates until the arrival of another Kant declaring the whole enterprise ill-founded and another Carnap declaring it to be meaningless, to launch another anti-metaphysical cycle of meaningless search for meaning to be abandoned yet again for metaphysics, etc., etc.? Why don't we try both in tandem, i.e., analysis and metaphysics at the same time, as the very designation "analytic metaphysics" would seem to demand? For then we could start by laying down our clearly defined semantic principles (instead of making them up and twisting them around as we go) and engage each other in our metaphysical debates according to the same principles, instead of talking past each other, making clear that whoever is talking according to different semantic principles is just playing a different game (Klima 2014, pp. 86–87).

Here, the difficulty that Klima's apology for analysis aims to alleviate remains - namely, that in much debate in the core disciplines of analytic philosophy and in metaphysics in particular, rival participants are often unable or unwilling to state their positions in a linguistic context their opponents would be able to

¹⁴Exceptions include his acceptance of both Anselm's proof of God's existence and Aquinas' proof of the immateriality of the intellect as sound (Klima 2000, 2009a) and his advancing, based on an examination of Buridan's treatment of reciprocal liar paradoxes, that any adequate semantics for natural language must be semantically closed and token-based (Klima 2004, 2008a).

agree to, leaving such debates unfruitful from the start. Without the opportunity for common ground that semantics provides, not only shared understanding, but even proof, refutation, and disagreement itself become unattainable.

With this problem in mind, Klima's study of medieval semantics, as a study of frameworks of meaning remarkably foreign to that of our own time, provides an example *par excellence* of the kind of interpretive charity needed to surmount our own crises of meaning and communication.

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