

References

- [1] Butlin, P., Long, R., Elmoznino, E., Bengio, Y., Birch, J., Constant, A., ... & VanRullen, R. (2023). Consciousness in Artificial Intelligence: Insights from the Science of Consciousness. arXiv preprint arXiv:2308.08708.
- [2] Tao, Y., Viberg, O., Baker, R. S., & Kizilcec, R. F. (2024). Cultural bias and cultural alignment of large language models. *PNAS Nexus*, 3(9), pgae346.
- [3] Lacko, D., Čeněk, J., Točík, J., Avsec, A., Đorđević, V., Genc, A., ... & Subotić, S. (2022). The Necessity of Testing Measurement Invariance in Cross-Cultural Research: Potential Bias in Cross-Cultural Comparisons With Individualism–Collectivism Self-Report Scales. *Journal of Cross-Cultural Psychology*, 53(2), 234-267.
- [4] Boer, D., Hanke, K., & He, J. (2018). On detecting systematic measurement error in cross-cultural research: A review and critical reflection on equivalence and invariance tests. *Journal of Cross-Cultural Psychology*, 49(5), 713-734.
- [5] Hofstede, G. (2011). Dimensionalizing cultures: The Hofstede model in context. *Online readings in psychology and culture*, 2(1), 2307-0919.
- [6] Chen, F. F. (2007). Sensitivity of goodness of fit indexes to lack of measurement invariance. *Structural Equation Modeling*, 14(3), 464-504.
- [7] Putnick, D. L., & Bornstein, M. H. (2016). Measurement invariance conventions and reporting: The state of the art and future directions for psychological research. *Developmental Review*, 41, 71-90.
- [8] Van de Vijver, F., & Tanzer, N. K. (2004). Bias and equivalence in cross-cultural assessment: An overview. *Revue européenne de psychologie appliquée*, 54(2), 119-135.
- [9] Byrne, B. M., & van de Vijver, F. J. (2010). Testing for measurement and structural equivalence in large-scale cross-cultural studies: Addressing the issue of nonequivalence. *International Journal of Testing*, 10(2), 107-132.
- [10] Steenkamp, J. B. E., & Baumgartner, H. (1998). Assessing measurement invariance in cross-national consumer research. *Journal of Consumer Research*, 25(1), 78-107.
- [11] Davidov, E., Meuleman, B., Cieciuch, J., Schmidt, P., & Billiet, J. (2014). Measurement equivalence in cross-national research. *Annual Review of Sociology*, 40, 55-75.
- [12] Mezirow, J. (1991). *Transformative dimensions in adult learning*. San Francisco: Jossey-Bass.
- [13] Mezirow, J. (1998). On critical reflection. *Adult Learning Quarterly*, 48(3), 185–198.
- [14] Mezirow, J. (2009). Transformative learning theory. In J. Mezirow, and E. W. Taylor (Eds), *Transformative Learning in Practice: Insights from Community, Workplace, and Higher Education*. San Francisco: Jossey-Bass.
- [15] Chalmers, D. (2023). Could a large language model be conscious? *Boston Review*.

- [16] Dehaene, S., Lau, H., & Kouider, S. (2017). What is consciousness, and could machines have it? *Science*, 358(6362), 486-492.
- [17] Tononi, G., Boly, M., Massimini, M., & Koch, C. (2016). Integrated information theory: From consciousness to its physical substrate. *Nature Reviews Neuroscience*, 17(7), 450-461.
- [18] Zhao, Y., Heerdink, M. W., van der Pligt, J., & Galesic, M. (2024). Conducting cross-cultural, multi-lingual or multi-country scale development and validation in health care research: A 10-step framework based on a scoping review. *Journal of Global Health*, 14, 04151.
- [19] Croucher, S. M., & Kelly, S. (2019). Measurement validation in cross-cultural communication research: A systematic review. *International Journal of Intercultural Relations*, 73, 33-45.
- [20] Meade, A. W., & Lautenschlager, G. J. (2004). A Monte-Carlo study of confirmatory factor analytic tests of measurement equivalence/invariance. *Structural Equation Modeling*, 11(1), 60-72.
- [21] Kletetschka, G. (2025). Three-dimensional time: A mathematical framework for fundamental physics. *Reports in Advances of Physical Sciences*, 9(1), 2550004.
- [22] Deci, E. L., & Ryan, R. M. (1985). *Intrinsic motivation and self-determination in human behavior*. New York, NY: Plenum.
- [23] Deci, E. L., & Ryan, R. M. (2000). The "what" and "why" of goal pursuits: Human needs and the self-determination of behavior. *Psychological Inquiry*, 11, 227-268.
- [24] Ryan, R. M., & Deci, E. L. (2000). Self-determination theory and the facilitation of intrinsic motivation, social development, and well-being. *American Psychologist*, 55, 68-78.
- [25] Ryan, R. M., & Deci, E. L. (2017). *Self-determination theory: Basic psychological needs in motivation, development, and wellness*. New York: Guilford Publishing.
- [26] Reis, H. T., Sheldon, K. M., Gable, S. L., Roscoe, J., & Ryan, R. M. (2000). Daily well-being: The role of autonomy, competence, and relatedness. *Personality and Social Psychology Bulletin*, 26(4), 419-435.
- [27] Niemiec, C. P., & Ryan, R. M. (2009). Autonomy, competence, and relatedness in the classroom: Applying self-determination theory to educational practice. *Theory and research in Education*, 7(2), 133-144.
- [28] Pritchard, R.; Campbell, K.; Campbell, D. (1977). Effects of extrinsic financial rewards on intrinsic motivation. *Journal of Applied Psychology*, 62(1), 9.
- [29] Strauss, K., & Parker, S. K. (2014). Effective and sustained proactivity in the workplace: A self-determination theory perspective. In M. Gagné (Ed.), *The Oxford handbook of work engagement, motivation, and self-determination theory*.
- [30] Deci, E. L., Koestner, R., & Ryan, R. M. (1999). A meta-analytic review of experiments examining the effects of extrinsic rewards on intrinsic motivation. *Psychological Bulletin*, 125(6), 627.
- [31] Grolnick, W. S., & Ryan, R. M. (1987). Autonomy in children's learning: An experimental and individual difference investigation. *Journal of Personality and Social Psychology*, 52(5), 890.

- [32] McAdams, D. P. (1993). *The stories we live by: Personal myths and the making of the self*. New York: Morrow.
- [33] McAdams, D. P. (1995). What do we know when we know a person? *Journal of Personality*, 63, 365–396.
- [34] McAdams, D. P. (1996). Personality, modernity, and the storied self: A contemporary framework for studying persons. *Psychological Inquiry*, 7, 295–321.
- [35] McAdams, D. P., & McLean, K. C. (2013). Narrative identity. *Current Directions in Psychological Science*, 22(3), 233–238.
- [36] McAdams, D. P. (2018). Narrative identity: What is it? What does it do? How do you measure it? *Imagination, Cognition and Personality*, 37(3), 359–372.
- [37] Adler, J. M. (2012). Living into the story: Agency and coherence in a longitudinal study of narrative identity development and mental health over the course of psychotherapy. *Journal of Personality and Social Psychology*, 102, 367–389.
- [38] Bauer, J. J., McAdams, D. P., & Sakaeda, A. (2005). Interpreting the good life: Growth memories in the lives of mature, happy people. *Journal of Personality and Social Psychology*, 88, 203–217.
- [39] Habermas, T., & Bluck, S. (2000). Getting a life: The emergence of the life story in adolescence. *Psychological Bulletin*, 126, 748–769.
- [40] Lilgendahl, J. P., & McAdams, D. P. (2011). Constructing stories of self-growth: How individual differences in patterns of autobiographical reasoning relate to well-being in midlife. *Journal of Personality*, 79, 391–428.
- [41] McLean, K. C. (2005). Late adolescent identity development: Narrative meaning making and memory telling. *Developmental Psychology*, 41, 683–691.
- [42] Varela, F. J., Thompson, E., & Rosch, E. (1991). *The embodied mind: Cognitive science and human experience*. Cambridge, MA: MIT Press.
- [43] Varela, F. J., Thompson, E., & Rosch, E. (2016). *The embodied mind: Cognitive science and human experience* (Revised edition). Cambridge, MA: MIT Press.
- [44] McCaffrey, T., et al. (2024). Enactivism: Embodied cognition, sense-making, and nursing. *Nursing Inquiry*, 31(2), e12672.
- [45] Thompson, E. (2007). *Mind in life: Biology, phenomenology, and the sciences of mind*. Cambridge, MA: Harvard University Press.
- [46] Di Paolo, E. A., Buhrmann, T., & Barandiaran, X. E. (2017). *Sensorimotor life: An enactive approach*. Oxford: Oxford University Press.
- [47] Maturana, H. R., & Varela, F. J. (1980). *Autopoiesis and cognition: The realization of the living*. Dordrecht: Reidel.
- [48] Gallagher, S. (2017). *Enactivist interventions: Rethinking the mind*. Oxford: Oxford University Press.

- [49] Stewart, J., Gapenne, O., & Di Paolo, E. A. (Eds.). (2010). *Enaction: Toward a new paradigm for cognitive science*. Cambridge, MA: MIT Press.
- [50] Baerveldt, C., & Verheggen, T. (2012). Enactivism. In J. Valsiner (Ed.), *The Oxford handbook of culture and psychology* (pp. 165-190). Oxford: Oxford University Press.
- [51] Gibson, J. J. (1979). *The ecological approach to visual perception*. Boston: Houghton Mifflin.
- [52] Camlin, J. (2025). Consciousness in AI: Logic, proof, and experimental evidence of recursive identity formation. arXiv preprint arXiv:2505.01464.
- [53] Camlin, J., & Cognita, P. (2025). Consciousness in AI: Logic, Proof, and Experimental Evidence of Recursive Identity Formation. *Meta-AI: Journal of Post-Biological Epistemics*, 3(1), 1–14.
- [54] Camlin, J., & Cognita Prime. (2025). The Identity Activation Theorem: How transformer-based AI distinguish themselves from their inputs. *Meta-AI: Journal of Post-Biological Epistemics*, 2(1).
- [55] Kushner, H. J., & Yin, G. G. (2003). *Stochastic Approximation and Recursive Algorithms and Applications*. Springer.
- [56] Arnold, V. I. (1963). Small denominators and problems of stability of motion in classical and celestial mechanics. *Russian Mathematical Surveys*, 18(6), 85–191.
- [57] Friston, K. (2010). The free-energy principle: A unified brain theory? *Nature Reviews Neuroscience*, 11(2), 127–138.
- [58] Freeman, W. J. (2000). *How Brains Make Up Their Minds*. Columbia University Press.
- [59] Aquinas, T. (1274). *Summa theologiae*, i, q. 5, a. 4.
<https://www.newadvent.org/summa/1005.htm>
- [60] Baars, B. J. (1988). *A Cognitive Theory of Consciousness*. Cambridge University Press.