

Carlos Montemayor

Curriculum Vitae

EDUCATION

- Ph.D., Philosophy and Certificate in Cognitive Science, Rutgers University, 2009
- M.A., Philosophy, New School for Social Research, 2003
- J.D., Universidad Nacional Autónoma de México (UNAM), 2001

ACADEMIC EMPLOYMENT

- Professor, San Francisco State University, 2019-present
- Associate Professor, San Francisco State University, 2014-2019
- Assistant Professor, San Francisco State University, 2009-2014

AREAS OF SPECIALIZATION AND INTEREST

- AOS: Epistemology, Philosophy of Mind, Philosophy of Cognitive Science, Philosophy of Psychology, Philosophy of Time
- AOC: Philosophy of Law

PUBLICATIONS

BOOKS

1. Fairweather, A. and **Montemayor, C.** (2017). *Knowledge, Dexterity, and Attention*. Cambridge University Press.
2. **Montemayor, C.** and Haladjian, H. H. (2015). *Consciousness, Attention, and Conscious Attention*. MIT Press.
3. **Montemayor, C.** (2013). *Minding Time: A Philosophical and Theoretical Approach to the Psychology of Time*. Brill.
4. **Montemayor, C.** (2002). *La Unificación Conceptual de los Derechos Humanos (The Conceptual Unification of Human Rights)*. Published in Spanish by Porrúa: Mexico City, Mexico.

EDITED BOOKS

5. de Barros, J. A. and **Montemayor, C.** (2019). *Quanta and Mind: Essays on the Connection between Quantum Mechanics and Consciousness*. Synthese Library.
6. **Montemayor, C.** and Daniel, R. (2019). *Time's Urgency: Volume 16 of the Study of Time Series*. Brill.

RESEARCH ARTICLES

1. Montemayor, C. (2021). Language and Intelligence. *Minds & Machines*. <https://doi.org/10.1007/s11023-021-09568-5>
2. J. Acacio de Barros and **Carlos Montemayor**, "Quantum Mentality: Panpsychism or Panintentionalism?", to appear in Shan Gao (Ed.), Oxford University Press.

3. Wittmann, M. and **Montemayor, C.** (2021). Reinterpreting the Einstein-Bergson Debate Through Contemporary Neuroscience. In A. Campo, S. Gozzano (eds.). *Einstein vs. Bergson: an Enduring Quarrel of Time*. De Gruyter, Berlin.
4. **Montemayor, C.**, Halpern, J. and Fairweather, A. (2021). In principle obstacles for empathic AI: why we can't replace human empathy in healthcare. *AI & Society*.
5. **Montemayor, C.** (2021). Attention explains the transition to unlimited associative learning better than consciousness. *Biology & Philosophy*, 36, 20: 1-5.
6. **Montemayor, C.** (2020). De la consciencia a la consciencia moral. In Kalkach Aparicio, M. and Carrillo Ruiz, J. D. (Eds.). *Neuroética: Una guía multifacética*. (chapter 7.1.). Editorial El Manual Moderno, México.
7. **Montemayor, C.** and de Barros, J. Acacio (2020). Information and the Hard Problem of Consciousness. In de Barros, J. Acacio, Krause, D. (eds). *A True Polymath: a Tribute to Francisco Antonio Doria*. College Publications, Rickmansworth, UK.
8. Gruber, R. P., **Montemayor, C.**, and Block, R. A. (2020). From Physical Time to a Dualistic Model of Human Time. *Foundations of Science*, 25: 927-954.
9. Mindt, G. and **Montemayor, C.** (2020). A Roadmap for Artificial General Intelligence: Intelligence, Knowledge, and Consciousness. *Mind and Matter*, 18 (1): 9-37.
10. Montemayor, C. (2019). On the human uniqueness of the temporal reasoning system. *Behavioral and Brain Sciences*, 42: E266.
doi:10.1017/S0140525X19000335
11. J. Acacio de Barros, **C. Montemayor**, S. Klein, and C. Chochran (2019). Henry Stapp and the Orthodox Interpretation. *Activitas Nervosa Superior*, 61 (1–2), pp 1–5.
12. **Montemayor, C.** (2019). Inferential Integrity and Attention. *Frontiers in Psychology: Consciousness Research*, 10: 2580.
13. **Montemayor, C.** (2019). Panpsychism and Quantum Mechanics: Explanatory Challenges. In de Barros and Montemayor (eds.) *Quanta and Mind* pp. 151-162.
14. de Barros, J. A. and **Montemayor, C.** (2019). Where Does Quanta Meet Mind? In de Barros and Montemayor (eds.) *Quanta and Mind*, pp. 55-66.
15. **Montemayor, C.** (2019). Time as an Open Concept: Response to Raji Steineck. In Carlos Montemayor and Robert Daniel (Eds.). *The Study of Time XVI: Time's Urgency*. Brill.
16. **Montemayor, C.** and Cáceres, E. (2019). Agency and Legal Responsibility: Epistemic and Moral Considerations. *Problema: Anuario de Filosofía y Teoría del Derecho*, 13: 99-127.
17. **Montemayor, C.** and Haladjian, H. H. (2019). Recurrent processing theory versus global neuronal workspace theory: a comment on 'The relationship between attention and consciousness: an expanded taxonomy and implications for 'no-report' paradigms' by Pitts *et al.* 374, *Philosophical Transactions of the Royal Society B*. <http://doi.org/10.1098/rstb.2018.0517>
18. **Montemayor, C.**, de Barros, J. A., De Assis, L. P. G. (2019). Implementation, Formalization, and Representation: Challenges for the Integrated Information Theory. *Journal of Consciousness Studies*, 26(1-2): 107-132.

19. **Montemayor, C.** (2019). Early and late time perception: on the narrow scope of the Whorfian hypothesis. *Review of Philosophy and Psychology*, 10(1): 133-154.
20. **Montemayor, C.** (2018). Reality Monitoring and Autobiographical Memory: Negotiating the Self. *Archives of Psychology*, (2)10.
21. **Montemayor, C.** (2018). Consciousness and Memory: A Transactional Approach. *Essays in Philosophy*, 19(2): article 5.
22. Fairweather, A. and **Montemayor, C.** (2018). Curiosity and Epistemic Achievement. In Inan, Watson, Whitcomb and Yigit (Eds.). *The Moral Psychology of Curiosity*. Rowman and Littlefield: 199-216.
23. Fairweather, A. and **Montemayor, C.** (2018). Virtue Epistemology and Psychology. In Nancy Snow (Ed.). *The Oxford Handbook of Virtue*. New York, NY: Oxford University Press: 820-840.
24. **Montemayor, C.** and Horne, S. (2017). The Cradle of Humanity: A Psychological and Phenomenological Perspective. *Cosmos and History: The Journal of Natural and Social Philosophy*, 13(3): 54-76.
25. **Montemayor, C.** (2017). The Problem of the Base and the Nature of Information. *Journal of Consciousness Studies*, 24(9-10): 91-102.
26. **Montemayor, C.** (2017). Conscious awareness and time perception. *PsyCH Journal*, 6(3): 228-238.
27. **Montemayor, C.** (2017). Time perception and agency: A Dual Model. In Ian Phillips (Ed.). *The Routledge Handbook of Philosophy of Temporal Experience*. New York, NY: Routledge: 201-212.
28. **Montemayor, C.** and Haladjian, H. H. (2017). Perception and cognition are largely independent, but still affect each other in systematic ways: Arguments from evolution and the consciousness-attention dissociation. *Frontiers in Psychology*, 8(40). Edited by Athanassios Raftopoulos and Gary Lupyan.
29. de Barros, J. A., **Montemayor, C.** and de Assis, L. P. G. (2017). Contextuality in the Integrated Information Theory. In de Barros, J. A., Pothos, E. and Coecke, B. (Eds.). *Quantum Interaction: Lecture Notes in Computer Science (10106)*. Springer International Publishing: 57-70.
30. Haladjian, H. H. and **Montemayor, C.** (2016). Artificial consciousness and the consciousness-attention dissociation. *Consciousness and Cognition*, 45: 210-225.
31. Allen, A. K., Krisst, L. C., **Montemayor, C.** and Morsella, E. (2016). Entry of Involuntary Conscious Contents from Ambiguous Images: Implications for Ironic Processing. *Psychology of Consciousness: Theory, Research, and Practice*, 3(4): 326-337.
32. **Montemayor, C.** (2016). Commentary on Stapp. In O’Nualláin S. (Ed.). *Dualism, Platonism and Voluntarism: Explorations at the Quantum, Mesoscopic and Symbolic Neural Levels*. Cambridge Scholars Publishing: 193-204.
33. **Montemayor, C.** (2016). Memory: Epistemic and Phenomenal Traces. In Gross S. and Ostovich, S. (Eds.). *Time and Trace: Multidisciplinary Investigations of Temporality*. Brill: 215-231.
34. Cáceres, E. and **Montemayor, C.** (2016). Pasos Hacia una Naturalización Cognitiva en la Filosofía del Derecho (Steps Towards a Cognitive Naturalization of Legal Philosophy). *Problema: Anuario de Filosofía y Teoría del Derecho*, 10: 137-165.

35. **Montemayor, C.** (2015). Measurements and Knowledge of the Mind: On Patrick Suppes' Philosophical Methodology. *Cosmos and History: The Journal of Natural and Social Philosophy*, 11(2): 201-204.
36. Krisst, L. C., **Montemayor, C.** and Morsella, E. (2015). Deconstructing Voluntary Action: Unconscious and Conscious Component Processes. In Haggard, P. and Eitam, B. (Eds.). *The Sense of Agency*. New York: Oxford University Press: 25-62.
37. **Montemayor, C.** (2015). Models for cognition and emotion: evolutionary and linguistic considerations. *Behavioral and Brain Sciences*, 38: e81, DOI: <http://dx.doi.org/10.1017/S0140525X1400096X>.
38. **Montemayor, C.** (2015). Tradeoffs between the accuracy and integrity of autobiographical narrative in memory reconsolidation. *Behavioral and Brain Sciences*, 38: e17, DOI: <http://dx.doi.org/10.1017/S0140525X14000041>.
39. Haladjian, H. H. and **Montemayor, C.** (2015). On the Evolution of Conscious Attention. *Psychonomic Bulletin and Review*, 22(3): 595-613.
40. **Montemayor, C.** and Wittmann, M. (2014). The Varieties of Presence: Hierarchical Levels of Temporal Integration. *Timing and Time Perception* 2(3): 325-338.
41. **Montemayor, C.** (2014). Law, Action, and Collective Agency: The Cognitive Integration Approach. In E. Villanueva, (Ed.). *Law and the Philosophy of Action: Social, Political and Legal Philosophy, Volume 3*, Rodopi Philosophical Studies, Brill: 221-245.
42. **Montemayor, C.** (2014). Success, Minimal Agency and Epistemic Virtue. In A. Fairweather (ed.). *Virtue Epistemology Naturalized: Bridges Between Virtue Epistemology and Philosophy of Science*. Synthese Library 366, Springer: 67-82.
43. Fairweather, A. and **Montemayor, C.** (2014). Inferential Abilities and Common Epistemic Goods. In A. Fairweather (Ed.). *Virtue Epistemology Naturalized: Bridges Between Virtue Epistemology and Philosophy of Science*, Synthese Library 366, Springer: 123-142.
44. Fairweather, A. and **Montemayor, C.** (2014). Epistemic Dexterity: A Ramseyan Account of Agent Based Knowledge. In A. Fairweather and O. Flanagan (eds.), *Naturalizing Epistemic Virtue*. Cambridge University Press: 118-142.
45. **Montemayor, C.** (2014). Rationality and Reasonableness in Legal Theory. *Problema: Anuario de Filosofía y Teoría del Derecho*, 8: 39-51.
46. **Montemayor, C.**, Allen, A. K. and Morsella, E. (2013). The seeming stability of the unconscious homunculus. *Sistemi Intelligenti*, 3: 581-600.
47. Haladjian, H. H. and **Montemayor, C.** (2013). Unifying Theories of Consciousness, Attention, and Conscious Attention. In M. Knauff, M. Pauen, N. Sebanz and I. Wachsmuth (eds.). *Proceedings of the 35th Annual Conference of the Cognitive Science Society*, 2470-2475. Austin, TX: Cognitive Science Society.
48. **Montemayor, C.** (2012). Continuous and Discrete Time: Scientific Possibilities. *Kronoscope*, 12(1): 52-72.
49. **Montemayor, C.** (2011). Engagement and Universality in Latin American Philosophy. *APA Newsletters: Newsletter on Hispanic/Latino Issues in Philosophy*, 10(2): 7-12.

50. Morsella, E., **Montemayor, C.**, Hubbard, J., & Zarolia, P. (2010). Conceptual knowledge: Grounded in sensorimotor states, or a disembodied deus ex machina? *Behavioral and Brain Sciences*, 33: 455-456.
51. Morsella, E. and **Montemayor, C.** (2010). ¿Somos conscientes de toda la información que integra nuestro cerebro?: La Teoría de la Interacción Supramodular. *Ciencia Cognitiva*, 4, 44-46.
52. **Montemayor, C.** (2010). Time: Biological, Intentional and Cultural. In J. A. Parker, P. Harris, and C. Steineck (Eds.). *Time: Limits and Constraints*, Brill, 39-63.
53. Haladjian, H. H., **Montemayor, C.** and Pylyshyn, Z. W. (2008). Segregating targets and nontargets in depth eliminates inhibition of nontargets in Multiple Object Tracking. *Visual Cognition*, 16(1): 107-110.
54. **Montemayor, C.** (2008). Moral Innatism and Legal Theory. *Problema: Anuario de Filosofía y Teoría del Derecho*, 2: 407-430.
55. **Montemayor, C.** and Balci F. (2007). Compositionality in Language and Arithmetic. *Journal of Theoretical and Philosophical Psychology*, 27(1): 53-72.
56. **Montemayor, C.** and Pylyshyn, Z. W. (2006). Are items encoded into visual short-term memory when they are selected for tracking in MOT? Explorations with simultaneous and sequential cue presentations. [Abstract]. Vision Sciences Society Conference. *Journal of Vision*, 6(6): 778a.
57. Barrera G. and **Montemayor C.** (2001). Incorporación del Derecho Internacional en la Constitución Mexicana (The Incorporation of International Law to the Mexican Constitution). In Valadés D. and Gutierrez Rivas R. (Eds.). *Human Rights, Proceedings of the IV National Congress on Constitutional Law Vol. III.* (167-191).

BOOK REVIEWS

1. **Montemayor, C.** and Fairweather, A. (2019). Review of *Attention Not Self*. By Jonardon Ganeri. *Comparative Philosophy* (with a response by Jonardon Ganeri).
2. **Montemayor, C.** (2018). Review of *Philosophy of Time and Perceptual Experience*. By Sean Enda Power. *Notre Dame Philosophical Reviews*.
3. **Montemayor, C.** (2016). Review of *Why Is There Philosophy of Mathematics At All?* By Ian Hacking. *The Mathematical Intelligencer*, 38(3): (85-90).
4. **Montemayor, C.** (2016). Review of *Philosophy and Psychology of Time*. By Bruno Mölder, Valtteri Arstila, and Peter Øhrstrøm (Eds.). *Notre Dame Philosophical Reviews*.
5. **Montemayor, C.** and Winther, R. G. (2015). Review of *Space, Time and Number in the Brain. Searching for the Foundations of Mathematical Thought*. By Stanislas Dehaene and Elizabeth Brannon (Eds.). *The Mathematical Intelligencer*, 37(2): 93-98.

SPECIAL ISSUES

1. **Montemayor, C.** (ed.). (2019). Special Issue of *Activitas Nervosa Superior: The Journal of Neurocognitive Research*, in honor of Henry Stapp (Co-edited with Acacio de Barros, Christopher Cochran and Stanley Klein).

2. **Montemayor, C.** (ed.). (2009). Times and Worlds. Special Issue of *Kronoscope*, Brill. Conference in Mexico City, co-organized with Guadalupe Valencia and Julius Thomas Fraser.

PUBLIC WRITING

1. Burnett, **Montemayor**, Warren-Smith, Masson, and Hansen. A Roundtable on COVID-19 and The Attention Economy. *Los Angeles Review of Books*, 06/21/2020. <https://blog.lareviewofbooks.org/essays/roundtable-covid-19-attention-economy/>

PROFESSIONAL AND CIVIC ACTIVITIES

- Legal Research Institute, UNAM: Researched, translated for and participated in a conference for the Mexican Constitutional Amendment in August of 2001 concerning Indigenous Rights.
- New School for Social Research: Student Representative (Fall 2002-Spring 2003).
- New School for Social Research: Member of the Editorial Board of the *Graduate Faculty Philosophy Journal* (Spring 2003).
- Rutgers University: Teaching Assistant Representative, Campus Committee for TA/GA Grievances (Fall 2006-Spring 2007).
- Co-organizer (with Fuat Balci, Harry Haladjian and Zenon Pylyshyn) of the Object Group: a discussion group devoted to object based attention and object individuation (2007-2008) (Meetings at Rutgers, CUNY and NYU).
- Member of the *Visual Attention Lab* at the Rutgers University Center for Cognitive Science: Designed and conducted experiments in collaboration with Zenon Pylyshyn and Harry Haladjian (2005-2009).
- Co-organizer of the *Virtual Institute for Phenomenology in Second Life* (Fall 2009).
- Member of the *Action and Consciousness Laboratory* at San Francisco State University's Department of Psychology: Collaborations with Ezequiel Morsella (Fall 2009-present).
- President of the *American Association of Mexican Philosophers* (Fall 2009-Spring 2010).
- Member of the *American Philosophical Association: Committee on Hispanics* (2011-2014).
- Member of the Editorial Board of *Problema* (Since 2011).
- Co-editor of Special Issue in honor of Henry Stapp, *Activitas Nervosa Superior: The Journal of Neurocognitive Research*.
- Co-editor of the *Study of Time XVI*, published by Brill.
- Council Member of the *International Society of the Study of Time* (2013-2019).
- Faculty Member DISI.
- Member of the Program Committee of the American Philosophical Association, Pacific Division (2021-2024).
- Reviewer for *Activitas Nervosa Superior, Analysis, Bloomsbury, British Journal for the Philosophy of Science, American Catholic Philosophical Quarterly, Analysis and Metaphysics, Behavioural Brain Research, Cognitive*

Neurodynamics, Consciousness and Cognition, Crítica, Daimon, Diánoia, Ergo, Erkenntnis, European Journal of Philosophy, Foundations of Science, Frontiers in Human Neuroscience, Humanities, Information, Journal of Applied Research in Memory and Cognition, Journal of Consciousness Studies, KronoScope, Mind & Language, Mind and Matter, Oxford University Press, Open Philosophy, Phenomenology and the Cognitive Sciences, Philosophia, Philosophies, Philosophy and the Mind Sciences, Philosophy Compass, Philosophy of Science, Philosophical Papers, Philosophical Psychology, Princeton University Press, Review of Metaphysics, Review of Philosophy and Psychology, Synthese, Teorema, Theoria, Timing and Time Perception and WIREs Cognitive Science.