

LUIS H. FAVELA

Curriculum Vitae | January 2026

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Indiana University Bloomington
Department of History and Philosophy of Science and Medicine
1020 E. Kirkwood Ave.
Ballantine Hall 913
Bloomington, IN 47405, USA

ACADEMIC APPOINTMENTS

Indiana University Bloomington

- *Associate Professor* (with tenure). (2024-Present). Department of History and Philosophy of Science and Medicine & Cognitive Science Program.

University of Central Florida

- *Associate Professor* (with tenure). (2021-2024). Department of Philosophy & Cognitive Sciences Program.
- *Assistant Professor* (tenure-track). (2015-2021). Department of Philosophy & Cognitive Sciences Program.
- *Honors Faculty*. (2015-2024). Burnett Honors College.
- *Graduate Faculty*. (2015-2024). College of Graduate Studies.

University of Cincinnati

- *Instructor*. (2010-2014). Departments of Philosophy and Psychology.
- *Graduate Assistant*. (2010-2015). Department of Philosophy.

Fellowships and Visiting Positions

Research Corporation for Science Advancement

- *Fellow*. (2022-2024). Scialog: Molecular Basis of Cognition. [Competitive].

University of Pittsburgh

- *Fellow*. (2019, Fall). Center for Philosophy of Science. [Competitive].

Indiana University Bloomington

- *Visiting Researcher*. (2017, Summer). Computational Cognitive Neuroscience Laboratory. Department of Psychological and Brain Sciences. Sponsor: Olaf Sporns. [Invited].

Duke University

- *Fellow*. (2017, Summer). Summer Seminars in Neuroscience and Philosophy. [Competitive].

University of Central Florida

- *Fellow*. (2017, Spring). Writing Across the Curriculum. [Competitive].

EDUCATION

Ph.D. (2015). University of Cincinnati, Philosophy (Sciences Track)

- Dissertation: *Understanding cognition via complexity science*
- Committee: Anthony Chemero (Director), Valerie Gray Hardcastle, Robert C. Richardson, Rick Dale (UCLA)

M.A. (2014). University of Cincinnati, Experimental Psychology

- Thesis: *Walking through apertures: Assessing judgments obtained from multiple modalities*
- Committee: Michael A. Riley (Co-Director), Kevin Shockley (Co-Director), Anthony Chemero

M.A. (2012). University of Cincinnati, Philosophy (Sciences Track)

- Qualifying Exam: *Ethics*

M.A. (2009). San Diego State University, Philosophy

- Thesis: *Biological theories of consciousness: The search for experience*
- Committee: Mark R. Wheeler (Director), Robert Francescotti, Linda Gallo (Psychology)

B.A. (2004). University of San Diego, English and Philosophy

Certificates

Interactive distributed learning for technology-mediated course delivery. (2015). Faculty Center for Teaching and Learning, University of Central Florida.

Preparing future faculty. (2015). The Graduate School, University of Cincinnati.

Nonlinear methods for psychological science. (2012). Advanced Training Institute, American Psychological Association.

RESEARCH and TEACHING INTERESTS

Philosophical

- *Areas of specialization*: History and philosophy of science (esp. cognitive, neural, and psychological sciences); philosophy of mind
- *Areas of competence*: Ethics (esp. applied, inc. neuroethics, computer and information ethics)

Empirical

- *Dynamical systems theory*: Data analyses (esp. nonlinear, e.g., fractal); modeling (esp. decision-making; neuronal dynamics)
- *Perception-action*: Affordances; sensory substitution and augmentation

PUBLICATIONS (67, peer reviewed unless noted) (+ Student Co-Author)

Book (1)

Favela, L. H. (2024). *The ecological brain: Unifying the sciences of brain, body, and environment*. New York, NY: Routledge. <https://doi.org/10.4324/9781003009955>

- Reviews:
 - *Perception*. <https://doi.org/10.1177/03010066241302994>
 - *Philosophical Psychology*. <https://doi.org/10.1080/09515089.2024.2447382>
- Interviews:
 - The Giant's Shoulder. (2024, December). *The mind is NOT a computer: Rethinking consciousness, perception and intelligence*. [Podcast]. <https://www.youtube.com/watch?v=U1ek0DWGZ1c>
 - Howard Hughes Medical Institute, Janelia Research Campus. (2024, October). *The Ecological Brain*.
 - Brain Inspired. (2024, July). *BI 190 Luis Favela: The Ecological Brain*. [Podcast]. <https://braininspired.co/podcast/190/>
 - New Books in Philosophy and New Books in Neuroscience. (2024, May). *Luis H. Favela, "The Ecological Brain: Unifying the Sciences of Brain, Body, and Environment" (Routledge, 2024)*. [Podcast]. <https://newbooksnetwork.com/the-ecological-brain>
 - The Dissenter. (2024, February). *Luis Favela: The ecological brain: Unifying the sciences of brain, body, and environment*. [Podcast]. https://youtu.be/TLpop_LqHsE

Edited Volumes (2)

Favela, L. H., & Raja, V. (Eds.). (Forthcoming). The dynamical hypothesis three decades later: Advances, critiques, and prospects for a dynamical cognitive science. *Topics in Cognitive Science*.

Favela, L. H. (Ed.). (2019). Innovative dynamical approaches to cognitive systems. Special issue of *Cognitive Systems Research*. <https://www.sciencedirect.com/journal/cognitive-systems-research/special-issue/10GBNPX567B>

Articles (26)

Favela, L. H., & Raja, V. (Forthcoming). Dynamical cognitive science! Wherefore art thou? *Topics in Cognitive Science*. [Editor reviewed].

Favela, L. H. (2025). Emergence makes the science of radical embodiment effective. *Topoi: An International Review of Philosophy*. <https://doi.org/10.1007/s11245-025-10277-2>

Favela, L. H., & Machery, E. (2025). Contextualizing, eliminating, or glossing: What to do with unclear scientific concepts like representation. *Mind & Language*, 40(2), 242-250. <https://doi.org/10.1111/mila.12533>

Favela, L. H., & Machery, E. (2025). The concept of representation in the brain sciences: The current status and ways forward. *Mind & Language*, 40(2), 215-225. <https://doi.org/10.1111/mila.12531>

- Favela, L. H.**, & Machery, E. (2023). Investigating the concept of representation in the neural and psychological sciences. *Frontiers in Psychology: Cognition*, 14(1165622), 1-13. <https://doi.org/10.3389/fpsyg.2023.1165622>
- Favela, L. H., & Machery, E. (2024). Symposium introduction and replies to commentaries. *The Brains Blog*. <https://philosophyofbrains.com/category/neuroscience/favela-and-machery-representations-in-the-mind-and-brain-sciences>
- Favela, L. H.**, & Amon, M. J. (2023). Reframing cognitive science as a complexity science. *Cognitive Science: A Multidisciplinary Journal*, 47(4), e13280. <https://doi.org/10.1111/cogs.13280>
- Favela, L. H.** (2023). Nested dynamical modeling of neural systems: A strategy and some consequences. *Journal of Multiscale Neuroscience*, 2(1), 240-250. <https://doi.org/10.56280/1567939485>
- Special issue, M. Spivey (Ed.), *The mind and the brain: A multiscale interpretation of cognitive brain functionality*. [Invited].
- Favela, L. H.**, & Amon, M. J. (2023). Enhancing Bayesian approaches in the cognitive and neural sciences via complex dynamical systems theory. *Dynamics*, 3, 115-136. <https://doi.org/10.3390/dynamics3010008>
- Favela, L. H.**, Amon, M. J., Lobo, L., & Chemero, A. (2021). Empirical evidence for extended cognitive systems. *Cognitive Science: A Multidisciplinary Journal*, 45(11), e13060, 1-27. <https://doi.org/10.1111/cogs.13060>
- Journal's top cited paper of work published during 2021-2022.
- Favela, L. H.** (2021). The dynamical renaissance in neuroscience. *Synthese: An International Journal for Epistemology, Methodology and Philosophy of Science*, 199(1-2), 2103-2127. <https://doi.org/10.1007/s11229-020-02874-y>
- Favela, L. H.** (2020). Dynamical systems theory in cognitive science and neuroscience. *Philosophy Compass*, 15(8), e12695, 1-16. <https://doi.org/10.1111/phc3.12695>
- Favela, L. H.** (2020). Cognitive science as complexity science. *Wiley Interdisciplinary Reviews: Cognitive Science*, 11(4), e1525, 1-24. <https://doi.org/10.1002/wcs.1525>
- Favela, L. H.** (2019). Editor's introduction: Innovative dynamical approaches to cognitive systems. *Cognitive Systems Research*, 58, 156-159. <https://doi.org/10.1016/j.cogsys.2019.06.001> [Editor reviewed].
- Favela, L. H.** (2019). Soft-assembled human-machine perceptual systems. *Adaptive Behavior*, 27(6), 423-437. <https://doi.org/10.1177/1059712319847129>
- Amon, M. J., & **Favela, L. H.** (2019). Distributed cognition criteria: Defined, operationalized, and applied to human-dog systems. *Behavioural Processes*, 162, 167-176. <https://doi.org/10.1016/j.beproc.2019.03.001>

- Favela, L. H.** (2019). Integrated information theory as a complexity science approach to consciousness. *Journal of Consciousness Studies*, 26(1-2), 21-47.
<https://www.ingentaconnect.com/content/imp/jcs/2019/00000026/f0020001/art00003>
- Favela, L. H.** (2019). Emergence by way of dynamic interactions. *Southwest Philosophy Review*, 35(1), 47-57. <https://doi.org/10.5840/swphilreview20193515>
- Favela, L. H.**, & van Rooij, M. M. J. W. (2019). Reasoning across continuous landscapes: A nonlinear dynamical systems theory approach to reasoning. *Cognitive Systems Research*, 54, 189-198. <https://doi.org/10.1016/j.cogsys.2018.12.013>
- Favela, L. H.**, Riley, M. A., Shockley, K., & Chemero, A. (2018). Perceptually equivalent judgments made visually and via haptic sensory-substitution devices. *Ecological Psychology*, 30(4), 326-345. <https://doi.org/10.1080/10407413.2018.1473712>
- Favela, L. H.** (2018). How to defend embodied cognition against the locked-in syndrome challenge. *Journal of Cognition and Neuroethics*, 5(1), 27-48.
http://jcn.cognethic.org/jcnv5i1_Favela.pdf
- Favela, L. H.** (2017). Consciousness is (probably) still only in the brain, even though cognition is not. *Mind and Matter*, 15(1), 49-69.
<https://www.ingentaconnect.com/contentone/imp/mm/2017/00000015/00000001/art00004>
- Favela, L. H.**, & Martin, J. (2017). "Cognition" and dynamical cognitive science. *Minds and Machines*, 27, 331-355. <https://doi.org/10.1007/s11023-016-9411-4>
- Favela, L. H.**, Coey, C. A., Griff, E. R., & Richardson, M. J. (2016). Fractal analysis reveals subclasses of neurons and suggests an explanation of their spontaneous activity. *Neuroscience Letters*, 626, 54-58. <https://doi.org/10.1016/j.neulet.2016.05.017>
- Favela, L. H.**, & Chemero, A. (2016). An ecological account of visual "illusions." *Florida Philosophical Review*, 16(1), 68-93. <https://cah.ucf.edu/fpr/article/an-ecological-account-of-visual-illusions/>
- Favela, L. H.** (2014). Radical embodied cognitive neuroscience: Addressing "grand challenges" of the mind sciences. *Frontiers in Human Neuroscience*, 8(796), 1-10.
<https://doi.org/10.3389/fnhum.2014.00796>
- van Rooij, M. M. J. W., **Favela, L. H.**, Malone, M. L., & Richardson, M. J. (2013). Modeling the dynamics of risky choice. *Ecological Psychology*, 25, 293-303.
<https://doi.org/10.1080/10407413.2013.810502>

Chapters (11)

- Favela, L. H.** (Forthcoming). Is the brain a computer? In D. S. Curry & L. Daoust (Eds.), *Introducing philosophy of mind, today* (pp. TBA). New York, NY: Routledge.

- Raja, V., & **Favela, L. H.** (Forthcoming). Ecological neuroscience. In T. Nonaka, M. Segundo-Ortin, V. Romero, & J. B. Wagman (Eds.), *The Routledge international handbook of ecological psychology* (pp. TBA). New York, NY: Routledge.
- Favela, L. H.** (Forthcoming). Understanding brains and minds on their own terms. In D. G. Kelty-Stephen & M. Mangalam (Eds.), *Beyond the computer metaphor of mind and brain* (pp. TBA). New York, NY: Cambridge University Press.
- Favela, L. H.** (2026). Eliminativism is at the heart of e-cognition. In M. Heras-Escribano (Ed.), *Analytic philosophy and 4E cognition: Conceptual analysis, embodiment and situatedness* (pp. 113-125). New York, NY: Routledge. <https://doi.org/10.4324/9781003649359-10>
- Favela, L. H.** (2026). A neuroecological architecture for situated cognizing systems. In G. Piccinini (Ed.), *Neurocognitive foundations of mind* (pp. 18-37). New York, NY: Routledge. <https://doi.org/10.4324/9781003458531-2>
- Favela, L. H.** (2024). What is NExT for affordances? Taking brains seriously in organism-environment systems. In M. Mangalam, A. Hajnal, & D. G. Kelty-Stephen (Eds.), *The modern legacy of Gibson's affordances for the sciences of organisms* (pp. 214-231). New York, NY: Routledge. <https://doi.org/10.4324/9781003396536-16>
- Favela, L. H.**, & Chemero, A. (2023). Plural methods for plural ontologies: A case study from the life sciences. In M.-O. Casper & G. F. Artese (Eds.), *Situated cognition research: Methodological foundations* (pp. 217-238). Cham, Switzerland: Springer. https://doi.org/10.1007/978-3-031-39744-8_14
- Favela, L. H.** (2022). "It takes two to make a thing go right": The coevolution of technological and mathematical tools in neuroscience. In J. Bickle, C. F. Craver, & A.-S. Barwich (Eds.), *The tools of neuroscience experiment: Philosophical and scientific perspectives* (pp. 287-304). New York, NY: Routledge. <https://doi.org/10.4324/9781003251392-18>
- Favela, L. H.** (2021). Fundamental theories in neuroscience: Why neural Darwinism encompasses neural reuse. In F. Calzavarini & M. Viola (Eds.), *Neural mechanisms: New challenges in the philosophy of neuroscience* (pp. 143-162). Cham, Switzerland: Springer. https://doi.org/10.1007/978-3-030-54092-0_7
- Favela, L. H.** (2020). When the flame goes out: The horror of connected consciousness. In J. Beever (Ed.), *Philosophy, film, and the dark side of interdependence* (pp. 189-202). Lanham, MD: Lexington Books. <https://doi.org/10.5040/9781978721951.ch-11>
- Favela, L. H.**, & Chemero, A. (2016). The animal-environment system. In Y. Coelllo & M. H. Fischer (Eds.), *Foundations of embodied cognition: Volume 1: Perceptual and emotional embodiment* (pp. 59-74). New York, NY: Routledge. <https://doi.org/10.4324/9781315751979>

- Favela, L. H.**, & Amon, M. J. (2023). The ethics of human digital twins: Counterfeit people, personhood, and the right to privacy. *2023 IEEE 3rd International Conference on Digital Twins and Parallel Intelligence (DTPI)*. Orlando, FL: IEEE.
<https://doi.org/10.1109/DTPI59677.2023.10365409>
 ■ Best paper finalist.
- + Ross, B. A., & **Favela, L. H.** (2019). A definition of memory for the cognitive sciences. In A. K. Goel, C. M. Seifert, & C. Freksa (Eds.), *Proceedings of the 41st annual conference of the Cognitive Science Society* (pp. 974-980). Montreal, QB: Cognitive Science Society.
<https://cogsci.mindmodeling.org/2019/papers/0182/>
- + Neemeh, Z. A., **Favela, L. H.**, & Amon, M. J. (2018). Interspecies distributed cognition. In C. Kalish, M. Rau, J. Zhu, & T. T. Rogers (Eds.), *Proceedings of the 40th annual conference of the Cognitive Science Society* (pp. 812-817). Austin, TX: Cognitive Science Society.
<https://cogsci.mindmodeling.org/2018/papers/0167/>
- Costa, A. A., Amon, M. J., Sporns, O. & **Favela, L. H.** (2018). Fractal analyses of networks of integrate-and-fire stochastic spiking neurons. In S. Cornelius, K. Coronges, B. Gonçalves, R. Sinatra, & A. Vespignani (Eds.), *Complex networks IX: Proceedings of the 9th conference on complex networks CompleNet 2018* (pp. 161-171). Cham, Switzerland: Springer.
https://doi.org/10.1007/978-3-319-73198-8_14
- Favela, L. H.** (2018). An introduction to radical embodied cognitive neuroscience. *Proceedings of a body of knowledge - Embodied cognition and the arts conference CTSA UCI 8-10 Dec 2016*. Irvine, CA. <https://escholarship.org/uc/item/9d18w5dr>
- + Neemeh, Z. A., & **Favela, L. H.** (2017). Beyond distributed cognition: Towards a taxonomy of nonreductive social cognition. In G. Gunzelmann, A. Howes, T. Tenbrink, & E. Davelaar (Eds.), *Proceedings of the 39th annual conference of the Cognitive Science Society* (pp. 2796-2801). Austin, TX: Cognitive Science Society.
<https://cogsci.mindmodeling.org/2017/papers/0528/>
- van Rooij, M. M. J. W., & **Favela, L. H.** (2016). A nonlinear dynamical systems theory perspective on dual-processing accounts of decision-making under uncertainty. In A. Papafragou, D. Grodner, D. Mirman, & J. C. Trueswell (Eds.), *Proceedings of the 38th annual conference of the Cognitive Science Society* (pp. 1673-1678). Austin, TX: Cognitive Science Society.
<https://cogsci.mindmodeling.org/2016/papers/0294/>
- + Moralez, L. A., & **Favela, L. H.** (2016). Thermodynamics and cognition: Towards a lawful explanation of the mind. In A. Papafragou, D. Grodner, D. Mirman, & J. C. Trueswell (Eds.), *Proceedings of the 38th annual conference of the Cognitive Science Society* (pp. 948-953). Austin, TX: Cognitive Science Society. <https://cogsci.mindmodeling.org/2016/papers/0173/>
- van Rooij, M. M. J. W., **Favela, L. H.**, Malone, M. L., & Richardson, M. J. (2013). A dynamical model of risky choice. In M. Knauff, M. Pauen, N. Sebanz, & I. Wachsmuth (Eds.), *Proceedings of the 35th annual conference of the Cognitive Science Society* (pp. 1510-1515).

Austin, TX: Cognitive Science Society.
<https://cogsci.mindmodeling.org/2013/papers/0283/>

Commentaries (6)

Favela, L. H. (2019). Octopus umwelt or umwelten? Commentary on Mather (2019) “What is in an octopus’s mind?” *Animal Sentience*, 26(2): 238, 1-3. <https://doi.org/10.51291/2377-7478.1465> [Editor reviewed].

Favela, L. H., Amon, M. J., & van Rooij, M. M. J. W. (2018). The incommensurability of emergence and modularity in complex systems: A commentary on Wastell (2014). *Theory & Psychology*, 28(4), 559-567. <https://doi.org/10.1177/0959354317750775>

Favela, L. H. (2017). Mental representations are not necessary for fish consciousness: Commentary on Woodruff (2017) “Consciousness in teleosts: There is something it feels like to be a fish.” *Animal Sentience*, 13(9): 046, 1-3. <https://doi.org/10.51291/2377-7478.1243> [Editor reviewed].

Favela, L. H. (2016). Commentary: Purves, Morgenstern, & Wojtach. (2015). Perception and reality: Why a wholly empirical paradigm is needed to understand vision. *Frontiers in Systems Neuroscience*, 10(77), 1-3. <https://doi.org/10.3389/fnsys.2016.00077>

Amon, M. J., & **Favela, L. H.** (2015). The complex experience of touching metallic, damp, and slimy things [A commentary and review of *The first sense: A philosophical study of human touch* by M. Fulkerson]. *Theory & Psychology*, 25(4), 543-545. <https://doi.org/10.1177/0959354315576382>

Favela, L. H., & Chemero, A. (2014). The value of affordances: Commentary on Barrett, The perception of religious meaning and value: An ecological approach. *Religion, Brain & Behavior*, 4(2), 147-149. <https://doi.org/10.1080/2153599X.2013.816343>

Abstracts (3)

Favela, L. H., Coey, C. A., Griff, E. R., & Richardson, M. J. (2014). Fractal analysis of spontaneous activity in single neurons. Program No. 272.06. *Neuroscience 2014*. Washington, DC: Society for Neuroscience, 2014. <http://tinyurl.com/SfN2014>

Favela, L. H., Riley, M. A., Shockley, K., & Chemero, A. (2014). Augmenting the sensory judgment abilities of the visually impaired. Paper presented at the *122nd annual convention of the American Psychological Association*. Washington, DC. <https://doi.org/10.1037/e553822014-001>

Favela, L. H., Riley, M. A., Shockley, K., & Chemero, A. (2014). Perception-action judgments normally made with vision more accurately made with touch. Program No. X-143. *Poster sessions of the 26th annual convention of the Association for Psychological Science*. San Francisco, CA. <http://tinyurl.com/APS2014-X143>

Reviews (Editor Reviewed) (9)

- Favela, L. H.** (2023). Review of Gualtiero Piccinini's Neurocognitive mechanisms: Explaining biological cognition. *Philosophy of Science*, 90(3), 753-756.
<https://doi.org/10.1017/psa.2023.54>
- Favela, L. H.** (2019). Sizing up consciousness: Towards an objective measure of the capacity for experience by M. Massimini & G. Tononi. *CHOICE: Current Reviews for Academic Libraries*, 56(7), 891.
- Favela, L. H.** (2018). Efficient cognition: The evolution of representational decision making by A. Schulz. *CHOICE: Current Reviews for Academic Libraries*, 56(6), 810.
- Favela, L. H.** (2018). Quantum language and the migration of scientific concepts by J. Burwell. *CHOICE: Current Reviews for Academic Libraries*, 56(4), 504-505.
- Favela, L. H.** (2018). The history of animals: A philosophy by O. Timofeeva. *CHOICE: Current Reviews for Academic Libraries*, 56(4), 478.
- Favela, L. H.** (2017). Pragmatism as a way of life: The lasting legacy of William James and John Dewey by H. Putnam, R. A. Putnam, & D. Macarthur. *CHOICE: Current Reviews for Academic Libraries*, 55(3), 357-358.
- Favela, L. H.** (2016). Review of Model emergent dynamics in complex systems by A. J. Roberts. *Dynamical Systems Magazine*, July 2016. <https://dsweb.siam.org/The-Magazine/All-Issues/Book-Reviews/review-of-model-emergent-dynamics-in-complex-systems-by-a-j-roberts>
- Favela, L. H.** (2016). Review of Discovering the human connectome by Olaf Sporns. *Philosophical Psychology*, 29(1), 153-156. <https://doi.org/10.1080/09515089.2014.946595>
- Favela, L. H.** (2014). Review of Networks: An introduction by M. E. J. Newman. *Dynamical Systems Magazine*, October 2014. <https://dsweb.siam.org/The-Magazine/All-Issues/Book-Reviews/review-of-networks-an-introduction-by-mej-newman>

Miscellaneous (Not Peer Reviewed)

- Favela, L. H.** (2020). Teaching and learning guide for: Dynamical systems theory in cognitive science and neuroscience. *Philosophy Compass*, 15(8), e12695, 1-5.
<http://doi.org/10.1111/phc3.12697>
- Favela, L. H.** (2016). Being uncomfortable can be a good thing: Teaching interdisciplinary subjects to non-interdisciplinary students. *Faculty Focus*, 15(1), 16-17.

GRANTS

- Amon, M. J. (PI), & **Favela, L. H. (Co-PI)**. (2022-2023). *The motor cortex contribution to cognitive reasoning: Empirical examination of the embodiment hypothesis*. Defense University Research

Instrumentation Program (DURIP): Air Force Office of Scientific Research (AFOSR): Department of Defense (DOD). ~\$295,000. FA9550-22-1-0154.

Favela, L. H. (PI). (2018). *Mixed Reality Academic Seeding Program*. Microsoft. [Equipment grant for mixed reality immersive headsets and controllers; ~\$5,000 value.]

Favela, L. H., & Fiore, S. (2017-2018). *Research Mentoring Opportunity*. Office of Research & Commercialization. University of Central Florida. \$3,000.

Favela, L. H., & Ravela, C. (2017-2018). *From the Armchair to the Office: Shedding Light on Our Students' Variety of Career Options*. What's Next, Quality Enhancement Plan Program. University of Central Florida. \$3,500.

Teaching and Professional Development Grants

- Emphasizing Impact in UCF Dossier Creation. (2020, Summer). \$800, Summer Faculty Development Conference: Faculty Excellence Track, University of Central Florida. [Cancelled due to COVID-19].
- Course Innovation Project: Active Learning Strategies for Classes of Different Sizes and Modalities. (2018, Fall). \$500, Faculty Center for Teaching and Learning, University of Central Florida.
- Course Innovation Project: Improving Student Learning Approaches. (2017, Fall). \$500, Faculty Center for Teaching and Learning, University of Central Florida.
- Course Development: Interdisciplinary Honors Seminar: *The Buddha's Brain: Buddhism and Cognitive Sciences in Dialogue*. (2016, Spring). \$1,000, The Burnett Honors College. University of Central Florida.
- Active Learning Course Innovation Program. (2016, Spring). \$500, Faculty Center for Teaching and Learning, University of Central Florida.
- Interactive Distributed Learning for Technology-Mediated Course Delivery. (2015, Fall). \$2,500, Faculty Center for Teaching and Learning, University of Central Florida.
- Course Development: Introduction to Philosophy. (2015, Summer). \$1,500, Department of Philosophy, University of Central Florida.

Competitive Grant. (2012). \$1,100, Symposium: Eric Schwitzgebel, University of California, Riverside. Graduate Student Governance Association, University of Cincinnati.

AWARDS and HONORS

Affordable Instructional Materials (AIM) Initiative. (2022-2023, 2023-2024). University of Central Florida.

Sabbatical. (2023, Spring). University of Central Florida. [Competitive].

Research Incentive Award. (2019-2020). University of Central Florida. [\$5,000 annual salary increase.]

Undergraduate Research Mentor of the Year. (2016-2017). University of Central Florida.

Travel Awards. Numerous, ranging from \$100-\$1,300. Sources:

- Southwestern Philosophical Society (2018). Travel Grant, \$150.
- San Diego State University (2010-2014): Department of Philosophy; Interdisciplinary/Cultural Studies Graduate Program
- Southern Society for Philosophy and Psychology (2015)
- University of Cincinnati (2012-2015): Charles Phelps Taft Research Center and Memorial Fund; Department of Biological Sciences; Department of Philosophy; Department of Psychology; Graduate Student Governance Association

Taft Graduate Enrichment Award. (2012). \$550, to attend the American Psychological Association's Advanced Training Institute: Nonlinear Methods for Psychological Science. Charles Phelps Taft Research Center and Memorial Fund.

Award of Excellence for Presentation. (2011). *Deflating the role of reportability in cognitive science.* Center for Cognition, Action, and Perception Conference, University of Cincinnati.

University Graduate Scholarship. (2010-2015). University of Cincinnati.

Teacher Who Cares Award. (2006). Sweetwater Union High School District, Chula Vista, CA.

KEYNOTES (4)

Favela, L. H. (2025, April). *Contextual cognition: Or when is cognizing not just brain activity?* 17th Annual Midwest Undergraduate Cognitive Science Conference (MUCSC). Bloomington, IN.

Favela, L. H. (2024, June). *Quining representations.* Analytic Philosophy and E-Cognition. Universidad de Granada, Granada, Spain.

Favela, L. H. (2024, June). *A NeuroEcological theory of organism-environment cognitive systems.* Dimensions of Radical Embodiment. Universidad de Murcia, Murcia, Spain.

Favela, L. H. (2019, March). *Emergence: It's complex, but not that complicated.* Complexity in the Humanities and Sciences. University of Memphis, Memphis, TN.

PRESENTATIONS (94) (+ Student Co-Author) (No Job Talks)

Favela, L. H. (2026, April). *Eliminativism and e-cognition make strange—but cozy—bedfellows.* The Science of Consciousness (TSC 2026), Tucson, AZ.

Favela, L. H. (2025, October). *Emergence makes neuroscience possible.* 3rd Annual Web Conference of the International Society for the Philosophy of the Sciences of the Mind, Online.

Favela, L. H. (2025, July). *Progress and the exploitation-exploration dilemma in the history and philosophy of science.* MathPsych/ICCM 2025: The 58th Annual Meeting of the Society for Mathematical

Psychology and the 23rd International Conference on Cognitive Modeling, Columbus, OH.

Favela, L. H. (2025, May). *Emergence makes neuroscience possible*. SPAN 2025: First Annual Meeting of the Society for Philosophy and Neuroscience, St. Louis, MO.

Favela, L. H. (2024, November). *Quining representations*. PSA2024: The 29th Biennial Meeting of the Philosophy of Science Association, New Orleans, LA.

Favela, L. H. (2024, October). *Contextual cognition: Or when is cognizing not just brain activity?* Philosophy and Neuroscience at the Gulf VII: Seventh Annual Meeting of the Deep South Philosophy and Neuroscience Workgroup, Pensacola Beach, FL.

Favela, L. H., & Silberstein, M. (2023, November). *Neural (titular) computation*. 1st Annual Web Conference of the International Society for the Philosophy of the Sciences of the Mind, Online.

Favela, L. H., & Amon, M. J. (2023, November). *The ethics of human digital twins: Counterfeit people, personhood, and the right to privacy*. 2023 IEEE 3rd International Conference on Digital Twins and Parallel Intelligence (DTPI), Orlando, FL.
 ▪ Best paper finalist.

Favela, L. H., & Silberstein, M. (2023, September). *Neural (titular) computation*. Philosophy and Neuroscience at the Gulf VI: Sixth Annual Meeting of the Deep South Philosophy and Neuroscience Workgroup, Pensacola Beach, FL.

Favela, L. H. (2023, August). *Empirical evidence for extended cognitive systems*. The Extended Mind at Twenty-Five: 38th Annual Boulder Conference on the History and Philosophy of Science, University of Colorado Boulder, Boulder, CO.

Favela, L. H. (2022, November). *"I know it when I see it": Philosophical and/vs. scientific research*. In K. S. Plaisance & J. Sullivan (Co-organizers). *Engaging science with philosophy: Case studies, empirical data, and reflections on collaborations between philosophers and scientists*. SRPoiSE (Socially Relevant Philosophy of/in Science and Engineering), Cognate Society Session. The 28th Biennial Meeting of the Philosophy of Science Association, Pittsburgh, PA. [Unable to attend due to hurricane.]

+ Smith, R. C., & **Favela, L. H.** (2022, November). *Building a phenomenological bridge in pain care between patients and healthcare providers*. 2022 International Neuroethics Society Annual Meeting, Montreal, Canada and Online.

Favela, L. H. (2022, October). *From environmental information to neural manifolds: The neuroecological theory of organism-environment cognitive systems*. Neurocognitive Foundations of Mind, Online.

Favela, L. H. (2022, September). *From environmental information to neural manifolds: The neuroecological theory of affordances*. Philosophy and Neuroscience at the Gulf V: Fifth Annual Meeting of the Deep South Philosophy and Neuroscience Workgroup, Pensacola Beach, FL.

- Favela, L. H.**, & Machery, E. (2022, July). *The untenable status quo: The concept of representation in the neural and psychological sciences*. 3rd Joint Conference of the Society for Philosophy and Psychology & European Society for Philosophy and Psychology. Milan, Italy.
- Favela, L. H.** (2021, November). *"It takes two to make a thing go right": The coevolution of technological and mathematical tools in neuroscience*. PSA2020/2021: The 27th Biennial Meeting of the Philosophy of Science Association, Baltimore, MD.
- Favela, L. H.**, & Machery, E. (2021, September). *Representation and other concepts in the mind and brain sciences*. Philosophy and Neuroscience at the Gulf IV: Fourth Annual Meeting of the Deep South Philosophy and Neuroscience Workgroup & the 58th Annual Meeting of the Alabama Philosophical Society, Pensacola Beach, FL.
- + Nécaise, A., + Moralez, L. A., **Favela, L. H.**, Amon, M. J., & McConnell, D. S. (2021, May). *Perception-action calibration as a function of judgment method and feedback type*. Annual Convention of the Association for Psychological Science, Virtual.
- Favela, L. H.** (2020, December). *Nonlinear predictive processing*. 112th Annual Meeting of the Southern Society for Philosophy and Psychology, Louisville, KY.
- Favela, L. H.** (2020, September). *Extended cognition? Yes. Extended consciousness? No*. The Science of Consciousness (TSC 2020), Tucson, AZ and Online.
- Favela, L. H.** (2020, January). *"It takes two to make a thing go right": The coevolution of technological and mathematical tools to explain scale-free neuronal activity*. NeuroTech: An Interdisciplinary Early Career Workshop on Tools and Technology in Neuroscience. Center for Philosophy of Science, University of Pittsburgh, PA.
- Favela, L. H.**, & Beggs, J. M. (2019, September). *Multielectrode arrays as a case study in tools driving new concepts in neuroscience*. Tool Development in Experimental Neuroscience: A Science-in-Practice Workshop & the 57th Annual Meeting of the Alabama Philosophical Society, Pensacola Beach, FL.
- + Ross, B. A., & **Favela, L. H.** (2019, July). *A definition of memory for the cognitive sciences*. 41st Annual Conference of the Cognitive Science Society, Montreal, Quebec, Canada.
- Favela, L. H.** (2019, July). *Universality and nonreductive, nonmechanistic neuroscience* (Poster). 45th Annual Meeting of the Society for Philosophy and Psychology, San Diego, CA.
- Favela, L. H.** (2019, March). *Neural reuse is a general mechanism, but Neural Darwinism is a fundamental theory*. 111th Annual Meeting of the Southern Society for Philosophy and Psychology, Cincinnati, OH.
- Favela, L. H.** (2018, November). *Emergence by way of dynamic interactions*. 80th Annual Meeting of the Southwestern Philosophical Society, Denver, CO.

- Favela, L. H.** (2018, October). *Neural reuse is a general mechanism, but Neural Darwinism is a fundamental theory*. New Challenges in Philosophy of Neuroscience. Neural Mechanisms Web Conference.
- Favela, L. H.** (2018, October). *Emergence by way of dynamic interactions*. 11th Meeting of the American Association of Mexican Philosophers, Florida State University, Tallahassee, FL. [Cancelled due to hurricane.]
- + Neemeh, Z. A., **Favela, L. H.**, & Amon, M. J. (2018, July). *Interspecies distributed cognition*. 40th Annual Conference of the Cognitive Science Society, Madison, WI.
- + Neemeh, Z. A., **Favela, L. H.**, & Amon, M. J. (2018, May). *Interspecies distributed cognition*. 7th Annual Midwest Cognitive Science Conference, Bloomington, IN.
- Favela, L. H.** (2018, May). *Explaining multiscale cognitive systems via nested dynamical modeling* (Poster). 7th Annual Midwest Cognitive Science Conference, Bloomington, IN.
- Favela, L. H.** (2018, March). *Is unreportable phenomenology outside the scope of science? Spoiler: Yes*. 2018 Pacific Division Meeting of the American Philosophical Association, San Diego, CA.
- Costa, A. A., Amon, M. J., Sporns, O. & **Favela, L. H.** (2018, March). *Fractal analyses of networks of integrate-and-fire stochastic spiking neurons*. International Conference on Complex Networks (CompleNet), Boston, MA.
- Favela, L. H.** (2017, September). *How to defend embodied cognition against the locked-in syndrome challenge*. Mind and Brain Annual Conference. Center for Cognition and Neuroethics. University of Michigan, Flint, MI.
- + Neemeh, Z. A., & **Favela, L. H.** (2017, July). *Beyond distributed cognition: Towards a taxonomy of nonreductive social cognition* (Poster). 39th Annual Conference of the Cognitive Science Society, London, UK.
- + Neemeh, Z. A., & **Favela, L. H.** (2017, June). *Beyond distributed cognition: Towards a taxonomy of nonreductive social cognition* (Poster). 43rd Annual Meeting of the Society for Philosophy and Psychology, Baltimore, MD.
- + Moralez, L., & **Favela, L. H.** (2017, June). *How physics may explain cognition* (Poster). 43rd Annual Meeting of the Society for Philosophy and Psychology, Baltimore, MD.
- Favela, L. H.** (2017, March). *Pluralistic explanatory practices for an ontologically pluralistic world*. Scientific Knowledge Under Pluralism. Center for Philosophy of Science, University of Pittsburgh, Pittsburgh, PA.
- Favela, L. H.** (2016, December). *An introduction to radical embodied cognitive neuroscience*. Body of Knowledge: Embodied Cognition and the Arts. University of California, Irvine, Irvine, CA.

- van Rooij, M. M. J. W., & **Favela, L. H.** (2016, August). *A nonlinear dynamical systems theory perspective on dual-processing accounts of decision-making under uncertainty*. 38th Annual Conference of the Cognitive Science Society, Philadelphia, PA.
- + Moralez, L., & **Favela, L. H.** (2016, August). *Thermodynamics and cognition: Towards a lawful explanation of the mind* (Poster). 38th Annual Conference of the Cognitive Science Society, Philadelphia, PA.
- + Moralez, L., & **Favela, L. H.** (2016, June). *Thermodynamics and cognition: Towards a lawful explanation of the mind*. The International Society for Ecological Psychology America, Clemson, SC.
- Favela, L. H.** (2016, June). *Consciousness is (probably) still only in the brain even though cognition is not*. Pragmatism and the Brain. University of North Carolina, Asheville, NC. [Unable to attend.]
- Favela, L. H.** (2016, April). *From the armchair to the street: Phenomenology and the visually impaired*. Experimental Philosophy as Applied Philosophy. The 2016 Ratio Conference and 7th Conference of Experimental Philosophy UK, Reading, United Kingdom.
- Favela, L. H.** (2016, April). *Crosscutting biology and engineering via fractals*. (Re)Engineering Biology: The Emerging Engineering Paradigm in Biomedical Engineering, Systems Biology, and Synthetic Biology. Center for Philosophy of Science, University of Pittsburgh, Pittsburgh, PA.
- Favela, L. H.**, & Chemero, A. (2015, November). *An ecological account of visual "illusions."* 61st Annual Meeting of the Florida Philosophical Association, St. Augustine, FL.
- Favela, L. H.** (2015, May). *Extended mind, life, and death*. Life and Death: Contemporary Philosophical Perspectives, San Diego, CA.
- Favela, L. H.**, & Amon, M. J. (2015, May). *Touch as a unisensory, interaction-dominant sense*. Fifth Annual Midwestern Cognitive Science Conference, Mackinac Island, MI.
- Favela, L. H.**, & Chemero, A. (2015, April). *Preliminary evidence for extended cognitive systems*. 106th Annual Meeting of the Southern Society for Philosophy and Psychology, New Orleans, LA.
- Favela, L. H.**, Coey, C. A., Griff, E. R., & Richardson, M. J. (2014, November). *Fractal analysis of spontaneous activity in single neurons* (Poster). 44th Annual Meeting of the Society for Neuroscience, Washington, D.C.
- Favela, L. H.**, Riley, M. A., Shockley, K., & Chemero, A. (2014, August). *Augmenting the sensory judgment abilities of the visually impaired*. 122nd Annual Convention of the American Psychological Association, Washington, DC.

- Favela, L. H.**, Jinks, A. K., & Chemero, A. (2014, June). *Getting a grip on extended cognition*. North American Meeting of the International Society for Ecological Psychology, Miami University, Oxford, OH.
- Favela, L. H.**, Jinks, A. K., & Chemero, A. (2014, May). *Getting a grip on extended cognition*. Fourth Annual Midwestern Cognitive Science Conference, Wright State University, Dayton, OH.
- Favela, L. H.** (2014, May). *Motivating a nonreductive approach to social cognition*. 26th Annual Convention of the Association for Psychological Science, San Francisco, CA.
- Favela, L. H.**, Riley, M. A., Shockley, K., & Chemero, A. (2014, May). *Perception-action judgments normally made with vision more accurately made with touch* (Poster). 26th Annual Convention of the Association for Psychological Science, San Francisco, CA.
- Favela, L. H.** (2013, November). *An introduction to complex networks*. Networks: Theory and Methods Workshop, Center for Cognition, Action, and Perception, University of Cincinnati, Cincinnati, OH.
- Favela, L. H.** (2013, October). *Direct realism, disjunctivism, and ecological psychology*. Southern California Philosophy Conference, San Diego, CA.
- van Rooij, M. M. J. W., **Favela, L. H.**, Malone, M. L., & Richardson, M. J. (2013, August). *A dynamical model of risky choice*. 35th Annual Meeting of the Cognitive Science Society, Berlin, Germany.
- Favela, L. H.** (2013, July). *Dynamical systems, representations, and consciousness* (Poster). Association for the Scientific Study of Consciousness 17, San Diego, CA.
- Favela, L. H.** (2012, November). *Explanatory pluralism: A case study*. Graduate Student Research Symposium, University of Cincinnati, Cincinnati, OH.
- Favela, L. H.** (2011, April). *Deflating the role of reportability in cognitive science*. Center for Cognition, Action, and Perception Conference, University of Cincinnati, Cincinnati, OH.
- Favela, L. H.** (2009, November). *On the origin of consciousness: A critique of neural Darwinism*. 150 Years of Evolution: Darwin's Impact on the Humanities and Social Sciences Symposium, San Diego Natural History Museum and San Diego State University, San Diego, CA.
- Favela, L. H.** (2009, February). *Dissolving the hard problem of consciousness*. Research Symposium, San Diego State University, San Diego, CA.
- Favela, L. H.** (2008, July). *Two birds with one stone: Evidence for biological and computational theories of consciousness*. Graduate Liberal Studies Symposium, Stanford University, Palo Alto, CA.

- Favela, L. H.** (2025, November). *A NeuroEcological theory of organism-environment cognitive systems*. Centre for Cognitive Science (COGS) Seminar Series. University of Sussex, Brighton, United Kingdom.
- Favela, L. H.** (2025, October). *A NeuroEcological theory of organism-environment cognitive systems*. School of Engineering and Computer Science, Elizabethtown College, Elizabethtown, PA.
- Favela, L. H.** (2025, April). *A NeuroEcological theory of organism-environment cognitive systems*. Cognitive and Behavioral Sciences Program. Department of Psychology, Illinois State University, Normal, IL.
- Favela, L. H.** (2024, March). *What is NExT for affordances? Taking brains seriously in organism-environment systems*. Human Interactivity and Language Lab (HILL) Seminars. University of Warsaw, Poland, Online.
- Available online <https://www.youtube.com/watch?v=8Dt9qMwoPSk>
- Favela, L. H.** (2024, February). *What is NExT for affordances? Taking brains seriously in organism-environment systems*. Computational Phenomenology Discussion Group. VERSES Research Lab and University College London, Online.
- Amon, M. J., & **Favela, L. H.** (2024, February). *Quantifying extended human-plus-tool cognitive systems*. Human-Machine Systems and Digital Twin Workshop, IEEE Systems, Man, and Cybernetics Society. Orlando, FL.
- Favela, L. H.** (2023, November). *Investigating the concept of representation in the neural and psychological sciences*. Representations: Past, Present & Future; Trinity College Dublin, Online.
- Favela, L. H.** (2022, November). *Distributed cognition and human-dog systems*. Research Colloquium, Institut für Philosophie, Universität Kassel. Germany, Online.
- Favela, L. H.** (2022, July). *Where is my mind? Nonneuronal embodied and extended cognition*. Brain Fair, Neurogram, Online.
- Favela, L. H.**, & Machery, E. (2022, May). *The untenable status quo: The concept of representation in the neural and psychological sciences*. Neural Mechanisms 2022, Online.
- Favela, L. H.** (2022, May). *Cognitive systems: Extended and distributed*. Seminar Series, Department of Psychology, Bilkent University. Ankara, Turkey, Online.
- Favela, L. H.**, Amon, M. J., Lobo, L., & Chemero, A. (2022, February). *Empirical evidence for extended cognitive systems*. Embodied Design Research Laboratory, University of California, Berkeley, Online.
- Favela, L. H.** (2021, May). *Rethinking underlying commitments of assistive technologies*. LIBERATE 2021 (Living Better through Rehabilitative and Assistive Technologies), National Science Foundation Convergence Accelerator, Online.

- Favela, L. H.** (2021, March). *Dynamical systems theory in cognitive science and neuroscience*. The Rotman Institute of Philosophy. Western University, Ontario, Canada.
- Favela, L. H.** (2021, February). *Human-dog system and distributed cognition*. Cognitive and Behavioral Sciences Program. Illinois State University, Normal, IL.
- Favela, L. H.** (2019, November). *Extended cognition: It's real and it's quantifiable!* X-Phi Laboratory. University of Pittsburgh, Pittsburgh, PA.
- Favela, L. H.** (2019, October). *New tools drive new concepts into neuroscience*. Center for Philosophy of Science. University of Pittsburgh, Pittsburgh, PA.
- Favela, L. H.** (2019, June). *A conceptual assessment of distributed cognition*. Colloquium. San Diego State University, San Diego, CA.
- Riley, M. A., Chemero, A. C., & **Favela, L. H.** (2016, August). *Ain't nothing wrong with having relations: Non-(neo-)mechanistic mechanisms and explanations for complex systems*. The Guy Van Orden UConn Workshop on Cognition and Dynamics, XI. Center for the Ecological Study of Perception and Action and Connecticut Institute for Brain and Cognitive Sciences, Storrs, CT.
- Favela, L. H.** (2016, April). *Consciousness is (probably) still only in the brain even though cognition is not*. The Reality of Experience. The Institute for Prospective Cognition and the Society for Mind Matter Research, Illinois State University, Chicago, IL.
- Favela, L. H.** (2014, July). *An empirically viable extended cognition*. Perception Group, Department of Philosophy, University of California, San Diego, La Jolla, CA.
- Favela, L. H.** (2014, April). *An empirically viable extended cognition*. Philosophy Colloquium, San Diego State University, San Diego, CA.
- Favela, L. H.** (2013, May). *Explanatory pluralism: A case study*. Cognitive and Information Sciences Colloquium, University of California, Merced, Merced, CA.
- Favela, L. H.** (2013, April). *Explanatory pluralism: A case study*. Philosophy Colloquium, San Diego State University, San Diego, CA.
- Favela, L. H.** (2013, April). *Ethics, poverty, and responsibility*. Sweetwater Union High School District AVID Guest Speaker, Chula Vista, CA.
- Favela, L. H.** (2011, September). *The overflow of nonconceptual content*. Philosophy Colloquium, San Diego State University, San Diego, CA.

Comments (3)

- Favela, L. H.** (2018, June). Commentary on Mazviita Chirimuuta's *Charting the Heraclitean brain: Perspectivism and simplification in models of the motor cortex*. Neural Mechanisms 2018, Online.

Favela, L. H. (2018, April). Commentary on Alfredo Vernazzani's *The structure of sensorimotor explanation*. Neural Mechanisms 2018, Online.

Favela, L. H. (2015, April). Commentary on Matthew Haug's *Explanatory depth, explanatory autonomy, and abstraction*. 106th Annual Meeting of the Southern Society for Philosophy and Psychology, New Orleans, LA.

MEDIA COVERAGE (National and International, Selected)

Beyond Phrenology. (2025). *Neuroscience without nerves: On the death and rebirth of explanation* [Podcast]. <https://www.youtube.com/watch?v=Upo43jjRJ-o>

Brain Inspired. (2025). *BI 213 Representations in minds and brains*. [Podcast]. <https://braininspired.co/podcast/213/>

The Dissenter. (2024). *Luis Favela: Cognitive science and dynamic systems theory* [Podcast]. <https://youtu.be/c2iMOqFgYKM>

Beyond Phrenology. (2023). *Conversation with Luis Favela, University of Central Florida* [Podcast]. <https://www.youtube.com/watch?v=G-iGtdlwaTk>

Pegasus Magazine. (2023, Spring). *Minds on the matter: Two UCF faculty discuss our understanding of brain function and the mysteries we're still trying to solve*. <https://www.ucf.edu/pegasus/minds-on-the-matter/>

Science Trends. (2019, May 28). *Reasoning comes in degrees, not different kinds*. <https://sciencetrends.com/reasoning-comes-in-degrees-not-different-kinds/>

American Philosophical Association. (2018, May 18). *APA member interview: Luis Favela*. Blog of the APA. <https://blog.apaonline.org/2018/05/18/apa-member-interview-luis-favela/>

BioOptics World. (2014, September 16). *Handheld IR device could be game-changer for the visually impaired*. <http://tinyurl.com/BioOpticsWorld-20140916>

WCPO Cincinnati Channel 9. (2014, August 27). *University of Cincinnati investigates new technology for the visually impaired*. <http://tinyurl.com/WCPOCincinnati-20140827>

Optometry Today. (2014, August 20). *Seeing with infrared*. <http://tinyurl.com/Optometry-20140820>

TechCrunch. (2014, August 13). *The Enactive Torch is a sensor that helps the blind 'see.'* <http://tinyurl.com/TechCrunch-20140813>

The Australian. (2014, August 12). *Robots pave way for a better way to see life*. <http://tinyurl.com/Australian-20140812>

ZME Science. (2014, August 12). *Star Trek walking cane lends virtual touch to the blind*.
<http://tinyurl.com/ZMEScience-20140812>

Medical Daily. (2014, August 11). *Visually impaired will benefit from new infrared device: Enactive Torch helps the blind 'see' without canes*. <http://tinyurl.com/MedicalDaily-20140811>

UC Magazine. (2014, August 11). *'Seeing' through virtual touch is believing*.
www.uc.edu/news/NR.aspx?id=20215

This article was reproduced in English-speaking news sites and blogs (e.g., Disabled World, Medical Xpress, Neuroscience News, Science Daily) and translated into languages such as Japanese, Persian, Russian, and Spanish.

TEACHING EXPERIENCE

Graduate: Indiana University Bloomington

- *Cognitive Science*
 - Philosophical Foundations of the Cognitive and Information Sciences
- *History and Philosophy of Science and Medicine*
 - Topics in the Philosophy of Science: History and Philosophy of Complex Systems
 - Science and Values

Undergraduate: Indiana University Bloomington

- *History and Philosophy of Science and Medicine*
 - Critical Approaches to the Social and Historical Studies: "Where is My Mind?"
 - Science and Values

Graduate: University of Central Florida

- *Cognitive Sciences*
 - Research Methods in the Cognitive Sciences
- *Philosophy*
 - Neuroethics
 - Philosophies of Embodiment

Undergraduate: University of Central Florida

- *Philosophy*
 - Critical Thinking
 - Embodiment: Mind, Body, and Self
 - Honors Introduction to Philosophy
 - Introduction to Philosophy
 - Minds and Machines: Philosophy of Cognitive Science
 - Neuroethics
 - Philosophy of Mind
 - Philosophy of Science
- *Interdisciplinary: Philosophy and Religion & Cultural Studies*
 - The Buddha's Brain: Buddhism and Cognitive Sciences in Dialogue

- *Directed Research/Studies and Honors Directed Readings*
 - Ethics of Brain-Machine Interfaces
 - Metaethics
 - Metaphysical Grounding and Levels
 - Philosophy of Language
 - Topics in Philosophy of Mind: Distributed Cognition
 - Topics in Philosophy of Mind: Dynamical Cognitive Science
 - Topics in Philosophy of Mind: Situated and Thermodynamic Approaches to Cognition
 - Topics in Philosophy of Mind: Panpsychism
 - Topics in Philosophy of Mind: Phenomenology and Medicine
 - Topics in Philosophy of Mind: Philosophy of Memory
 - Topics in Philosophy of Mind: Social Perception
 - Topics in Philosophy of Science: Complex and Dynamical Systems
 - Topics in Philosophy of Science: Complexity Science and Health
 - Topics in Philosophy of Science: History and Foundations of Cybernetics and Systems Theory
 - Topics in Philosophy of Science: Process Philosophy and Nonlinear Dynamical Systems Science

Undergraduate: University of Cincinnati

- *Philosophy*
 - Contemporary Moral Issues
 - Critical Thinking
 - Philosophy and Cognitive Ethology
 - Philosophy and Religion
- *Psychology*
 - Cognitive Science

Teaching Assistant: University of Cincinnati

- *Philosophy*
 - Bioethics
 - Contemporary Moral Issues
 - Critical Thinking
 - Moral and Political Ideas: 20th/21st Century
 - Moral and Political Ideas: Modern Period
 - Sex and Death

Secondary Education

- *High School Teacher*
 - English, grades 9-11 (3 years)
- *Instructional Assistant*
 - AVID (Advancement Via Individual Determination) Program, grades 7-12 (4 years)

STUDENT RESEARCH SUPERVISION and MENTORSHIP

Indiana University Bloomington (* Current)

- *Chair*
 - * Garcia, R. (2025, Fall-Current). *Title TBA*. Dissertation. History and Philosophy of Science and Medicine, Indiana University Bloomington.
 - * Iannetta, C. (2024, Fall-Current). *Title TBA*. Dissertation. Cognitive Science, Indiana University Bloomington.
 - * Yang, P. (2025, Fall-Current). *Title TBA*. Dissertation. Cognitive Science, Indiana University Bloomington.
- *Committee*
 - Gaul, T. M. (2025, Completed). *Biological organization and viability: A theory of autopoiesis in cellular and Euclidian automata*. Undergraduate Thesis. Cognitive Science, Indiana University Bloomington.
 - * Kelly, P. J. (2025, January-Current). *Title TBA*. Dissertation. Philosophy, University of Wisconsin, Madison. [External.]
 - * Nadolski, E. (2025, Fall-Current). *Title TBA*. Dissertation. Biology, Indiana University Bloomington.
 - * Pak, D. (2025, Fall-Present). *Title TBA*. Dissertation. Informatics and Cognitive Science, Indiana University Bloomington.
 - * Peng, R. (2024, Fall-Current). *Title TBA*. Dissertation. History and Philosophy of Science and Medicine, Indiana University Bloomington.
 - * Steele, A. (2025, Fall-Current). *Title TBA*. Dissertation. Philosophy, Indiana University Bloomington.

University of Central Florida

- *Chair*
 - Lynn, D. (2024, Completed). *Ethics of brain-machine interfaces*. Honors Undergraduate Thesis. Philosophy, University of Central Florida.
 - Miller, A. (2024, Completed). *Complexity science and health*. Honors Undergraduate Thesis. Biomedical Sciences (Neuroscience), University of Central Florida.
 - Moralez, L. (2016, Completed). *Process and mind: Exploring the relationship between process philosophy and the nonlinear dynamical systems science of cognition*. Honors in the Major Thesis. Department of Philosophy, University of Central Florida. [Proceeded to University of Central Florida Modeling and Simulation Ph.D. student.]
 - Neemeh, Z. (2017, Completed). *Flocks, swarms, crowds, and societies: On the scope and limits of cognition*. Honors in the Major Thesis. Department of Philosophy, University of Central Florida. [Proceeded to University of Memphis Philosophy Ph.D. student.]
 - Smith, R. C. (2021, Completed). *The lived experience of chronic pain: On the contribution of phenomenological insights in understanding chronic pain disorders*. Honors Undergraduate Thesis. Departments of Biomedical Sciences and Philosophy, University of Central Florida. [Proceeded to University of Central Florida M.D. student.]
- *Committee*
 - Harvey, C. (2021, Completed). *Capstone project*. Interdisciplinary Studies MA/MS. University of Central Florida.
 - Hinkle, S. (2021, Completed). *Utilizing Fitts' law to examine motor imagery of self, other, and objects*. Honors Undergraduate Thesis. Department of Psychology, University of Central Florida.

- Kerbo, Jr., L. E. (2021, Completed). *The relationship between the sense of presence, demographic factors, and self-concept on a university campus*. Honors Undergraduate Thesis. Department of Psychology, University of Central Florida.
- Krause, K. (2020, Completed). *The role of expertise in perceiving emotions through kinematics*. Honors in the Major Thesis. Department of Psychology, University of Central Florida.
- Perryman, A. (2023, Completed). *Spinoza's cosmopsychism: The multifaceted mind of nature*. Honors Undergraduate Thesis. Interdisciplinary Studies, University of Central Florida.
- Whiteside, C. (2020, Fall-2021, Spring [Deceased]). *Science, philosophy, and Quine*. Honors Undergraduate Thesis. Department of Philosophy, University of Central Florida.

PROFESSIONAL ACTIVITIES and ORGANIZATIONS

Consulting

- Consultant. (2023-2024). *Thales Group*. United Kingdom. <www.thalesgroup.com>
 - Applications of ecological psychology to address issues of gender bias.
 - Applications of complex systems theory to rethinking learning and goals in largescale (~70,000 employees), international organization.

Editorial (* Current)

- * Associate Editor, Topic Editor, and Action Editor. (2022-Present). *Topics in Cognitive Science*.
- Section Editor: Cognitive Psychology. (2023-2024). *Cognitive Processing - International Quarterly of Cognitive Science*.
- Editorial Board: Psychology. (2023-2024). *Scientific Reports*.
- Associate Editor. (2018-2021). *Cognitive Systems Research*.
- Guest Editor. (2017-2018). *Cognitive Systems Research: Special Issue*.
- Review Editor. (2020-2023). *Frontiers in Neuroscience: Perception Science*.
- Review Editor. (2020-2023). *Frontiers in Psychology: Perception Science*.
- Review Editor. (2014-2023). *Frontiers in Psychology: Theoretical and Philosophical Psychology*.

Reviews

- *Ad Hoc Reviewer: Books*
 - Cambridge University Press
 - MIT Press
 - Oxford University Press
 - Polity Press (x2)
 - Routledge (x6)
 - SAGE Publishing
 - Sinauer Associates, Inc./Oxford University Press
 - Springer: Interdisciplinary Evolution Research Series (x2)
 - Springer: Studies in Brain and Mind Series
- *Ad Hoc Reviewer: Conferences*
 - Analytic Philosophy and E-Cognition
 - Cognitive Science Society (x12)
 - Florida Philosophical Association

- International Society for the Philosophy of the Mind Sciences Conference (x6)
- Philosophers' Cocoon Philosophy Conference
- Society for Philosophy and Psychology (x9)
- Southern Society for Philosophy and Psychology (x2)
- *Ad Hoc Reviewer: Grant Proposals*
 - Association for Psychological Science (x2)
 - European Science Foundation: Research Foundation Flanders
 - National Science Foundation: Perception, Action, & Cognition (PAC)
- *Ad Hoc Reviewer: Journal Referee*
 - Adaptive Behavior (x2)
 - Attention, Perception, & Psychophysics (x2)
 - Cognitive Science (x5)
 - Cognitive Systems Research (x4)
 - Consciousness and Cognition (x2)
 - Culture & Psychology
 - Dialogue: Canadian Philosophical Review
 - Ecological Psychology (x3)
 - Entropy (x3)
 - European Journal of Neuroscience
 - European Journal for Philosophy of Science (x2)
 - Experimental Brain Research (x2)
 - Florida Philosophical Review
 - Frontiers in Human Neuroscience
 - Frontiers in Psychology: Cognition (x2)
 - Frontiers in Psychology: Cognitive Science (x2)
 - Frontiers in Psychology: Comparative Psychology
 - Frontiers in Psychology: Quantitative Psychology and Measurement
 - Frontiers in Psychology: Theoretical and Philosophical Psychology (x7)
 - International Journal of Human-Computer Studies (x2)
 - International Studies in the Philosophy of Science
 - Journal of Consciousness Studies (x5)
 - Límite: Revista Interdisciplinaria de Filosofía y Psicología (x2)
 - Mind & Language
 - Mind and Matter (x2)
 - Minds and Machines
 - Network Neuroscience (x2)
 - Neurons, Behavior, Data analysis, and Theory
 - Patterns (x2)
 - Phenomenology and the Cognitive Sciences
 - Philosophical Quarterly
 - Philosophical Psychology (x2)
 - Philosophy of Science (x2)
 - PLoS Computational Biology
 - Synthese (x17)
 - Theory & Psychology
 - Topoi

Conferences, Sessions, and Symposia Organized

Organizer. (2024). *Reassessing the commitments and scope of the psychological sciences*. Society for Philosophy and Psychology, Cognate Session. PSA2024: The 29th Biennial Meeting of the Philosophy of Science Association, New Orleans, LA. Speakers: C. Cao, A. Corris, L. Favela, V. Raja, and S. Silberstein.

Co-Organizer (with M. Silberstein). (2023). *Neural computation, neural representation, and other foundational topics: Themes from Neurocognitive Mechanisms*. Symposium conducted at the 1st

Annual Web Conference of the International Society for the Philosophy of the Sciences of the Mind. Online. Speakers: D. Barack, L. Elber-Dorozko, L. Favela, L. Pessoa, G. Piccinini, and M. Silberstein.

Co-Organizer (with M. Silberstein). (2023). *Computational neuroscience and the noncomputational alternatives*. Symposium conducted at the Philosophy and Neuroscience at the Gulf VI: Sixth Annual Meeting of the Deep South Philosophy and Neuroscience Workgroup, Pensacola Beach, FL. Speakers: R. Beer, L. Favela, B. Odegaard, L. Pessoa, and M. Silberstein.

Co-Organizer (with L. Kühle). (2018). *Taking phenomenal consciousness from the personally known to the scientifically knowable*. Symposium conducted at the 2018 Pacific Division Meeting of the American Philosophical Association. San Diego, CA. Speakers: L. Favela, L. Kühle, E. Schwitzgebel, and J. Weisberg.

Co-Organizer (with S. Fiore). (2016). *The ethics of transhumanism*. Workshop. University of Central Florida.

Organizer and Co-Chair (with A. Chemero). (2014). *Why can't we be friends? Reductive and nonreductive treatments of social cognition*. Symposium conducted at the 26th Annual Convention of the Association for Psychological Science, San Francisco, CA.

Organizer. (2013). *Symposium: Olaf Sporns, Indiana University, Bloomington, Psychological and Brain Sciences*. Center for Cognition, Action, and Perception, University of Cincinnati.

Co-Organizer (with N. Atanasova & M. T. S. Barker). (2012). *Symposium: Eric Schwitzgebel, University of California, Riverside, Philosophy*. Graduate Student Governance Association, University of Cincinnati.

Co-Organizer (with M. R. Wheeler). (2009). *150 Years of Evolution: Darwin's Impact on the Humanities and Social Sciences Symposium*, San Diego Natural History Museum and San Diego State University.

Professional Society Memberships

Current

- Cognitive Science Society (2016-Present)
- International Society for Ecological Psychology (2010-Present)
- International Society for the Philosophy of the Sciences of the Mind (2022-Present)
- Philosophy of Science Association (2010-Present)
- Society for Philosophy of Science in Practice (2015-Present)

Former

- American Association of Philosophy Teachers (2015-2018)
- American Philosophical Association (2007-2019)
- American Psychological Association (2012-2014)
- Association for Psychological Science (2013-2014)
- Association for the Scientific Study of Consciousness (2013)
- Florida Philosophical Association (2015-2016)

- Society for Neuroscience (2014)
- Society for Philosophy and Psychology (2017-?)
- Southern Society for Philosophy and Psychology (2014-2020)
- Southwestern Philosophical Society (2018-2019)

Professional Affiliations and Organization Memberships

- Latino Faculty and Staff Association (LaFaSA). (2022-2024). University of Central Florida.
- Neural Mechanisms Online. (2018-Present). International. [Invited].
- United Faculty of Florida. (2015-2024). University of Central Florida.
- Multidisciplinary Neuroscience Alliance. (2015-2024). University of Central Florida.

Service to the Profession

Program Committee Member. (2025-2026). Philosophy of Neuroscience/Psychology/Cognitive Science/AI. PSA2026: The 30th Biennial Meeting of the Philosophy of Science Association, San Diego, CA.

Evaluator. (2024, Fall). *Philosophical Gourmet Report*.

Mentor. (2023-2024). *Scholar Mentor Program*. Faculty Success and Retention, Florida Atlantic University.

Secretary-Treasurer Elect. (2016-2019). *Society for Philosophy and Psychology*.

Executive Committee. (2016-2019). *Society for Philosophy and Psychology*.

Conference Session Chair

- (2025). *Perception*. SPAN 2025: First Annual Meeting of the Society for Philosophy and Neuroscience, St. Louis, MO.
- (2023). *Models & modeling*. 1st Annual Web Conference of the International Society for the Philosophy of the Sciences of the Mind, Online.
- (2015). *61st Annual Meeting of the Florida Philosophical Association*. St. Augustine, FL.
- (2015). Abundant vs. sparse multiple realization. *106th Annual Meeting of the Southern Society for Philosophy and Psychology*, New Orleans, LA.
- (2014). Psychology and neuroscience. *24th Biennial Meeting of the Philosophy of Science Association*, Chicago, IL.
- (2013). *Southern California Philosophy Conference*, San Diego, CA.

Service to Indiana University Bloomington

University-Level

- Guest lectures and presentations
 - (2025, Fall). *Radical theories in the cognitive and behavioral sciences*. M. J. Amon. INFO-I609-I709 Nonlinear dynamics in human systems. Department of Informatics.
 - (2025, Fall). *A neuroecological architecture for situated cognizing systems*. Mesolab. Department of Psychological and Brain Sciences & Cognitive Science Program.
 - (2025, Spring). *Extended cognition*. A. Goldman. COGS-Q101 Introduction to cognitive science. Cognitive Science Program.

- (2025, Spring). *Quining (neural) representations*. Cognitive Science Lunch.
- (2024, Fall). *Rethinking underlying commitments of assistive technologies*. Students of Cognitive Science (SOCS).
- Judge. (2025, April). Annual Midwest Undergraduate Cognitive Science Conference (MUCSC). Bloomington, IN.

College-Level

- Member. (2025, Fall-Present). Shared Graduate Courses Committee. Research Ethics and Statistics working groups.
- (2024, Fall). *Neuroscience program feedback*. Department of Psychological and Brain Sciences.

Department-Level: History and Philosophy of Science and Medicine

- Member. (2025). Merit Review Committee.
- Co-Chair. (2024-Present). Diversity Committee.
- Member. (2024-Present). Promotion and Tenure Committee.
- Organizer. (2025, Spring). Reading group: Frank, A., Gleiser, M., & Thompson, E. (2024). *The blind spot: Why science cannot ignore human experience*. Cambridge, MA: The MIT Press.
- Guest lectures and presentations
 - (2025, Spring). *Dissemination of results II: Journals and books*. S. Gliboff. HPSC-X501: Professional Development.

Department-Level: Cognitive Science Program

- Member. (2024-Present). Undergraduate Program Committee.
- Member. (2024-2025). Scholarship/Fellowship Award Selection Committee.

Service to the University of Central Florida

University-Level

- Faculty Advisor. (2015-2024). *Cognitive Sciences Club* [formally *Cognitive Sciences Student Association*].
- Latino Faculty Focus Group. (2019, Spring). Latino Faculty and Staff Association (LaFASA).
- Faculty Mentor. (2018-2019). Monitoring Advising Analytics to Promote Success (MAAPS).
- Faculty Mentor. (2018-2019). Sophomore Mentor Program. Burnett Honors College.
- Organizer and presenter (with J. Beever). (2018, Fall). *Bioethics workshop*. Phi Delta Epsilon (Premedical students' organization).
- High School Outreach Committee. (2016-2018).
- Peer reviewer: National Science Foundation grant pre-proposal submissions. (2017). Office of Research and Commercialization.
- Moderator and. (2016). *Southeast Regional Ethics Bowl*.
- Judge. (2015). *12th Annual UCF Ethics Bowl*.
- Guest lectures and presentations
 - (2024, Spring). *Radical theories in the cognitive and behavioral sciences*. M. J. Amon. IDS6938 Nonlinear dynamics in the cognitive and behavioral sciences. School of Modeling, Simulation, and Training.
 - (2024, Spring). *Investigating the concept of representation in the neural and psychological sciences*. Cognitive Sciences Club.

- (2022, Fall). *From environmental information to neural manifolds: The neuroecological theory of organism-environment cognitive systems*. Cognitive Sciences Club.
- (2022, Spring). *Radical theories in the cognitive and behavioral sciences*. M. J. Amon. IDS6938 Nonlinear dynamics in the cognitive and behavioral sciences. School of Modeling, Simulation, and Training.
- (2021, Fall). *Rethinking underlying commitments of assistive technologies*. Neuroscience Alliance (Student Group of university-level Multidisciplinary Neuroscience Alliance).
- (2021, Spring). *Radical theories in the cognitive and behavioral sciences*. M. J. Amon. IDS6938 Nonlinear dynamics in the cognitive and behavioral sciences. School of Modeling, Simulation, and Training.
- (2020, Fall). *Extended cognition: It's real and it's measurable!* Cognitive Sciences Club.
- (2020, Spring). *"It takes two to make a thing go right": The coevolution of technological and mathematical tools to explain scale-free neuronal activity*. Neuroscience Alliance (Student Group of university-level Multidisciplinary Neuroscience Alliance).
- (2018, Spring). *Preliminary evidence for extended cognitive systems*. Seminar Series Human Factors and Cognitive Psychology. Department of Psychology.
- (2017, Fall). *Getting a grip on extended cognition*. Cognitive Sciences Student Association.

College-Level

- College of Graduate Studies and Research Committee. (2017-2022).
- Writing Across the Curriculum Program Review. (2019, Spring-2019, Summer). Department of Writing and Rhetoric.
- Information Technology Advisory Committee. (2017-2018). College of Arts and Humanities.
- Research and Scholarship Recognition Committee. (2017). College of Arts and Humanities.
- Faculty Advisor. (2016-2017). Texts and Technology Ph.D. Program.
- Curriculum Development Committee. (2015-2017). Texts and Technology Ph.D. Program.
- Scholarship Committee. (2015-2016). College of Arts and Humanities.
- Diversity Advocate and Hiring Committee Member. (2015-2016). Assistant Professor of Texts and Technology. Texts and Technology Ph.D. Program.
- Guest lectures and presentations
 - (2016, Fall). *From the armchair to the street: Phenomenology and the visually impaired*. 8x8 Lightning Talks, Texts and Technology Ph.D. Program.

Department-Level

- Chair Elect of Steering Committee. (2022-2024).
- Steering Committee Member Elect. (2021-2024).
- Promotion and Tenure Faculty Mentor. (2021-2024).
- Promotion and Tenure Committee Member. (2021-2024).
- Curriculum Development Committee. (2015-2024).
- Hiring Committee Member. (2023-2024). Assistant Professor.
- Organizer. (2023, Fall). Reading group: Bishop, R. C., Silberstein, M., & Pexton, M. (2022). *Emergence in context: A treatise in twenty-first century natural philosophy*. Oxford, UK: Oxford University Press.

- Organizer (with B. Reese). (2023, Spring). Reading group: Wheeler, M. R. (2019). *Being measured: Truth and falsehood in Aristotle's Metaphysics*. Albany, NY: SUNY Press.
- Diversity Advocate and Hiring Committee Member. (2019-2020). Assistant Professor of Philosophy.
- Organizer and Presenter (with C. Ravela). (2018, Fall). Teaching Matters Workshop: *From the Armchair to the Office: Shedding Light on Our Students' Variety of Career Options*.
- Diversity Advocate and Hiring Committee Member. (2017-2018). Assistant Professor of Philosophy.
- Organizer. (2017). Teaching Matters Workshop: *Writing Across the Curriculum*.
- Diversity Advocate and Hiring Committee Member. (2016-2017). Assistant Professor of Religion & Cultural Studies.
- Organizer and presenter. (2016, Spring). *Extra credit*. Teaching Matters Workshop.
- Graduate Program Development Committee. (2015-2019). Masters in Cognitive Sciences.
- Teaching observations
 - (2022, Spring). B. Reese, PHM3100 Freedom and Justice.
 - (2019, Spring). C. Ravela, HUM2210 Humanistic Tradition I.
 - (2016, Spring). A. Gleig, *Buddhist notions of self*, PHI4321 Embodiment.
- Guest lectures and presentations
 - (2022, Spring). *Philosophy research methodology*. S. Fiore, PHI5340 Research Methods in the Cognitive Sciences.
 - (2021, Spring). *Philosophy research methodology*. S. Fiore, PHI5340 Research Methods in the Cognitive Sciences.
 - (2020, Spring). *Philosophy research methodology*. S. Fiore, PHI5340 Research Methods in the Cognitive Sciences.
 - (2019, Spring). *Dualism and physicalism*. M. Cash, PHI2010H Honors Introduction to Philosophy.
 - (2018, Spring). *Philosophy research methodology*. S. Fiore, PHI5340 Research Methods in the Cognitive Sciences.
 - (2015, Fall). *Embodied cognition*. J. Mundale, PHI3320 Philosophy of Mind.

Service to the University of Cincinnati

- Organizer. (2012-2014). *Cognition, Action, and Perception Reading Group*. Department of Psychology.
- Organizer. (2012-2013). *Department Reading Group*. Department of Philosophy.
- Philosophy Department Representative. (2011-2015). Graduate Student Governance Association.
- Graduate Student Faculty Representative. (2011-2012). Department of Philosophy.
- Diversity Task Force. (2010-2012). Department of Philosophy.

REFERENCES

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