

# LUIS H. FAVELA

Curriculum Vitae | September 2025

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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

<b>PUBLICATIONS (65, peer reviewed unless noted) (+ Student Co-Author)</b>
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**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. (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](https://youtu.be/TLpop_LqHsE)

**Edited Volumes (2)**

**Favela, L. H., & Raja, V.** (Eds.). (In progress). 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 (24)**

**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>
- 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](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). Eliminativism is at the heart of e-cognition. In M. Heras-Escribano (Ed.), *Analytic philosophy and 4E cognition: Conceptual analysis, embodiment and situatedness* (pp. TBA). New York, NY: Routledge.
- Raja, V., & **Favela, L. H.** (Forthcoming). Ecological neuroscience. In T. Nonaka, V. Romero, M. Segundo-Ortin, & J. B. Wagman (Eds.), *International Handbook of Ecological Psychology* (pp. TBA). New York, NY: Routledge.

- 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.
- Favela, L. H.** (Forthcoming). 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.** (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.** (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](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](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.
- 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>

## Proceedings (9)

- 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](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 Gualtierio 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 (92) (+ Student Co-Author) (No Job Talks)

**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.
- Invited (25)**
- 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)**

Brain Inspired. (2025, June). *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](http://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**

- *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.]
  - Peng, R. (2024, Fall-Current). *Title TBA*. Dissertation. History and Philosophy of Science and Medicine, 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](http://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*

<ul style="list-style-type: none"> <li>- Adaptive Behavior (x2)</li> <li>- Attention, Perception, &amp; Psychophysics (x2)</li> <li>- Cognitive Science (x5)</li> <li>- Cognitive Systems Research (x4)</li> <li>- Consciousness and Cognition (x2)</li> <li>- Dialogue: Canadian Philosophical Review</li> <li>- Ecological Psychology (x3)</li> <li>- Entropy (x3)</li> <li>- European Journal of Neuroscience</li> <li>- European Journal for Philosophy of Science</li> <li>- Experimental Brain Research (x2)</li> <li>- Florida Philosophical Review</li> <li>- Frontiers in Human Neuroscience</li> <li>- Frontiers in Psychology: Cognition (x2)</li> </ul>	<ul style="list-style-type: none"> <li>- Frontiers in Psychology: Cognitive Science (x2)</li> <li>- Frontiers in Psychology: Comparative Psychology</li> <li>- Frontiers in Psychology: Quantitative Psychology and Measurement</li> <li>- Frontiers in Psychology: Theoretical and Philosophical Psychology (x7)</li> <li>- International Journal of Human-Computer Studies (x2)</li> <li>- International Studies in the Philosophy of Science</li> <li>- Journal of Consciousness Studies (x5)</li> <li>- Límite: Revista Interdisciplinaria de Filosofía y Psicología (x2)</li> </ul>
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- 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**

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). *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*

- (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

### Philosophy

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