

DANIEL C. BURNSTON, PH.D.

Assistant Professor
Philosophy Department
Tulane University

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CURRICULUM VITAE

POSITIONS HELD

Assistant Professor, Philosophy Department, Tulane University (2015-Present)
Junior Research Fellow, KLI Institute (Summer 2015)

EDUCATION

B.A. in Philosophy, Rutgers University, 2007.
—Undergraduate Thesis: *Evolutionary Game Theory and Morality*
—Director: Martin Bunzl

M.A. in Philosophy, Georgia State University. Neurophilosophy Track, 2009,
—Master's Thesis: *Teleosemantics, Externalism, and the Content of Theoretical Concepts*
—Committee: Andrea Scarantino (Director), George Graham, Eddy Nahmias.

Ph.D. in Philosophy and Cognitive Science, University of California, San Diego, 2015.
—Dissertation: *Perceptual Context and the Nature of Neural Function*
—Committee: William Bechtel (Director), Jonathan Cohen, Rick Grush, Thomas Albright, John Serences.

AREAS OF SPECIALIZATION

Philosophy of Cognitive Science
Philosophy of Neuroscience
Philosophy of Biology

AREAS OF COMPETENCE

Philosophy of Science
Philosophy of Mind
Philosophy of Perception

PUBLICATIONS

- Burnston, D. C. (Forthcoming). Real patterns in biological explanation. *Philosophy of Science*.
- Burnston, D. C. (2016). Cognitive penetration and the cognition–perception interface. *Synthese*, doi:10.1007/s11229-016-1116-y
- Burnston, D. C. (2016). Computational neuroscience and localized neural function. *Synthese*, 10.1007/s11229-016-1099-8.
- Burnston, D. C. (2016). A contextualist approach to functional localization in the brain. *Biology & Philosophy*, 31(4), 527-550.
- Burnston, D. C. (2016). Data graphs and mechanistic explanation. *Studies in History and Philosophy of Science Part C: Studies in History and Philosophy of Biological and Biomedical Sciences*, 57, 1-12.
- Burnston, D. C., & Cohen, J. (2015). Perceptual Integration, Modularity, and Cognitive Penetration. In A. Raftopolous and J. Zembiek (Eds.), *Cognitive Influences on Perception: Implications for Philosophy of Mind, Epistemology, and Philosophy of Action* (pp. 123-143). Oxford University Press.
- Burnston, D. C., Sheredos, B., Abrahamsen, A., & Bechtel, W. (2014). Scientists' Use of Diagrams in Developing Mechanistic Explanations: A Case Study from Chronobiology. *Pragmatics and Cognition*, 22(2), 224-243.
- Uithol, S., Burnston, D. C., & Haselager, P. (2014). Why we may not Find Intentions in the Brain. *Neuropsychologia*, 56, 129-139.
- Bechtel, W., Burnston, D., Sheredos, B., & Abrahamsen, A. (2014). *Representing time in scientific diagrams*. Paper presented at the Proceeding of the 36th Annual Conference of the Cognitive Science Society.
- Burnston, D. C. (2013). Mechanistic Diagrams as Search Organizers. *Proceedings of the 36th Annual Meeting of the Cognitive Science Society* (pp. 1952-1957). Cognitive Science Society.
- Sheredos, B., Burnston, D. C., Abrahamsen, A., & Bechtel, W. (2013). Why Do Biologists Use so many Diagrams? *Philosophy of Science*, 80(5), 931-944.
- Burnston, D. C., & Cohen, J. (2012). Perception of Features and Perception of Objects. *Croatian Journal of Philosophy*, 12(3), 283-314.
- Burnston, D. (2012). Naturalism and Scientific Creativity: New Tools for Analyzing Science (Review of the Book: Models of Discovery and Creativity, J. Meheus & T. Nickels, Eds.). *Metascience*, 21, 115-118.
- Burnston, D., Sheredos, B., & Bechtel, W. (2011). HIT on the Psychometric Approach. *Psychological Inquiry*, 22, 108-114.

TALKS

- ‘Real Patterns in Biological Explanation,’ Philosophy of Science Association, Atlanta, GA, November 2016.
- ‘There is no Diachronic Cognitive Penetration,’ Joint Session of the Aristotelian Society, Cardiff, Wales, July 2016.
- ‘Getting Over Atomism,’ British Society for the Philosophy of Science, Cardiff, Wales, July 2016.
- ‘Inferentialism in Biological Practice,’ Society for the Philosophy of Science in Practice, Glassboro, NJ, June 2016.
- ‘Getting Over Atomism,’ Society for Philosophy and Psychology, Austin, Tx, June 2016. (Poster)
- ‘A Contextualist Approach to Functional Localization,’ University of California, San Diego, May 2016
- ‘Functional Integration, Neural Coding, and Consumer Semantics’: Rethinking the Taxonomy of Psychology Workshop. University of Western Ontario. April 2016. (Poster)
- ‘Getting over Atomism’: Georgia State University, April 2016.
- ‘Interface Problems in Cognitive Architecture’: Research in Progress Talk, Tulane University, November 2016.
- ‘Data Graphs, Explanatory Relations, and Mechanistic Explanation’: Society for Philosophy of Science in Practice. Aarhus, June 2015.
- ‘Multi-Modality and Defining the Senses’: Ecological Perception: Amodal and Multi-Modal Trends. Edinburgh, May 2015.
- ‘A Contextualist Theory of Functional Localization’: Tulane University, February 2016.
- ‘A Contextualist Theory of Functional Localization’: University of Indiana, Bloomington, January 2016.
- ‘Perceptual Integration, Modularity, and Cognitive Penetration’: (with Jonathan Cohen). Symposium paper. American Philosophical Association, Eastern Division. Philadelphia, December 2014.
- ‘Perceptual Context and the Nature of Neural Function’: Society for Philosophy and Psychology. Vancouver, June 2014. (Poster)
- ‘Re-Cognizing Perception and Cognition’: American Philosophical Association Central Division Meeting. Chicago, February 2014.
- ‘Perceptual Context and the Nature of Neural Function’: Methodology in Neuroscience Workshop, University of Pittsburgh History and Philosophy of Science, November 2013. (Poster)
- ‘Scientific Reasoning and Scientific Diagrams’: Diagrammatic Cognition: Discovery and Design workshop, Cognitive Science Society, Berlin, August 2013.
- ‘Mechanistic Diagrams as Search Organizers’: Cognitive Science Society, Berlin, August 2013. (Poster)
- ‘Perceptual Context and the Nature of Neural Function’: University of Parma, July 2013.

- ‘Between Phenomenon and Mechanism: Diagrams as Vehicles of Intermediate Explanatory Reasoning’: International Society for the History, Philosophy, and Social Science of Biology, Montpellier, July 2013.
- ‘Homogeneity Constraints and Reasoning about Complex Mechanisms’: Society for Philosophy of Science in Practice, Toronto, June 2013.
- ‘Re-Cognizing Perception and Cognition’: Society for Philosophy and Psychology, Providence, RI, June 2013. (Poster)
- ‘Why do Biologists Use so many Diagrams?’ (with Adele Abrahamsen, William Bechtel, and Ben Sheredos): Philosophy of Science Association, San Diego, November 2012.
- ‘Perception of Features and Perception of Objects’ (with Jonathan Cohen): Society for Philosophy and Psychology, Boulder, June 2012. (Poster)
- Commentary on Joseph MacCaffrey, ‘Reconceiving Semantic Vehicles: Lessons from Semantic Dementia’: Society for Philosophy and Psychology, Boulder, June 2012.
- ‘Perception of Features and Perception of Objects’ (with Jonathan Cohen): Symposium paper. American Philosophical Association, Pacific Division, Seattle, March 2012.
- ‘Intentions and the Brain’: Southern Society for Philosophy and Psychology, Savannah, March 2012.
- Commentary on Gualtiero Piccinini, ‘The Ontology of Functions’: Southern Society for Philosophy and Psychology, Savannah, March 2012.
- ‘Empirical Explication’: Biology in the Desert Workshop, Arizona State University, January 2011.
- ‘Finding Discrete Content in Continuous Networks’: Biology by the Sea Workshop, University of California, San Diego, January 2010.
- ‘What do Philosophical Theories of Content Have to do with Cognitive Neuroscience?’: Neuroscience Institute Retreat, Georgia State University, May 2009.
- ‘What do Philosophical Theories of Content Have to do with Cognitive Neuroscience?’: Graduate Research Interdisciplinary Team of Scholars meeting, Emory University, April 2009.
- ‘Teleosemantics, Externalism, and the Content of Theoretical Concepts’: Southeast Graduate Philosophy Conference. University of Florida, March 2009.
- ‘Teleosemantics, Externalism, and the Content of Theoretical Concepts’: Georgia State Philosophy Symposium, Georgia State University, March 2009.

EXTERNAL GRANTS

Investigator, NSF Grant No. 1127640, 2012-2013.

TEACHING

Tulane University

PHIL 6105: Philosophy of Neuroscience (Spring 2016)

PHIL 3933: Philosophy of Science (Fall 2015)

PHIL 1210: Elementary Symbolic Logic (Fall 2015, Spring 2016)

UCSD

PHIL 145: Philosophy of Science (Instructor of record, Summer 2013).

PHIL 27: Ethics and Society (TA, Fall 2014, Winter 2015).

PHIL 12: Logic and Decision Making (TA, Winter 2010).

ACADEMIC HONORS

Humanities Fellowship, University of California San Diego, Department of Philosophy.

Almaeder Award for Best Paper: Georgia State University Philosophy Symposium, 2009.

Departmental Distinction for MA Thesis, Georgia State University, Department of Philosophy, 2009.

Neurophilosophy Fellowship, Georgia State University, Department of Philosophy, 2007.

Graduate, High Honors, Rutgers University, Department of Philosophy.

Graduate, Phi Beta Kappa, Rutgers University.

Graduate, Magna cum Laude, Rutgers University.

PROFESSIONAL EXPERIENCE

Book Review Editor, *Philosophical Psychology*, August 2012-present.

Editorial Assistant, *Philosophical Psychology*, August 2010-June 2012.

Reviewer:

Cognitive Processing

Cognitive Science Society

British Journal for the Philosophy of Science

Dialectica

European Journal for Philosophy of Science

Journal of Consciousness Studies

New Ideas in Psychology

Philosophical Psychology

Philosophy of Science

Society for Philosophy and Psychology

Studies in History and Philosophy of Science

Synthese