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Interdisciplinary Program in the Humanities  
Washington University in St. Louis  
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St. Louis, MO 63130-4899

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Updated October 2022

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## Areas of Specialization

Philosophy of Physics, Philosophy of Science, Values in Science

## Areas of Competence

Logic, Epistemology, Philosophy of Artificial Intelligence/Machine Learning

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## Academic Appointments

Postdoctoral Fellow, Modeling Interdisciplinary Inquiry Project 2022-Present  
*Washington University in St. Louis*

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## Education

- Ph.D.**, Philosophy (Logic & Philosophy of Science), *University of California, Irvine*, June 2022.  
Dissertation: “Challenges in the Epistemology of Large-Scale Simulation”.  
Committee: James Weatherall (Chair, LPS), Cailin O’Connor (LPS), Jeffrey Barrett (LPS),  
Manoj Kaplinghat (Physics).
- M.A.**, Philosophy, *University of California, Irvine*, 2020.
- M.S.**, Physics, *DePaul University*, 2016.  
Thesis: “An Application of Wavelet Methods to the Search for Baryon Acoustic Oscillations”.
- B.S.**, Theoretical Physics/Applied Mathematics, *Loyola University Chicago*, 2014.
- B.A.**, Philosophy, *Loyola University Chicago*, 2014.
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## Publications

- “Simulation Verification in Practice”. Forthcoming in *Philosophy of Astrophysics* (2022), eds. Nora Mills Boyd, Siska De Baerdemaeker, Vera Maltese, & Kevin Heng.
- “A Note on Saari’s Treatment of Rotation Curve Analysis”. *The Astrophysical Journal*, 869(2), (2018).

## Works in Progress (drafts available upon request)

- “Simulation Verification in Principle”, *under submission*.
  - “Simulation and Adequacy-for-Purpose”, *in preparation*.
  - “Learning with Data from an Unjust World”, *in preparation*.
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## Talks (\* = invited)

- “Simulation and Adequacy-for-Purpose”  
*Philosophy of Science Association Biannual Meeting*, Nov 2022.
- “Learning with Data from an Unjust World”  
\**University of Missouri, St. Louis Philosophy Department Colloquium*, Oct 2022.  
\**Washington University in St. Louis Philosophy Department Colloquium*, Sept 2022.
- “Verification, Validation, etc.”  
*Philosophy of Science Association Biannual Meeting*, Nov 2021.  
*Philosophy of Logic, Math, and Physics Graduate Conference*, June 2021.

- “On Rotation Curve Analysis”  
*Foundations of Physics*, July 2018.  
*Rotman Summer Institute in Philosophy of Cosmology*, June 2018.
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## Teaching Experience

### Instructor of Record

The Good Life (WUSTL, Fall 2022, 17 students)  
Introduction to Inductive Logic (UCI, Spring 2022, 214 students)  
Critical Reasoning (UCI, Winter 2020, 94 students)  
College Physics II (Loyola, Summer 2016, 27 students)

### Teaching Assistant, Philosophy

Making Modern Science (UCI)  
Naturalized Epistemology [Honors] (UCI)  
The Good Life [Honors] (UCI)

### Teaching Assistant, Other

College Physics I/II/III (DePaul)  
College Physics Lab I/II (Loyola)  
Electricity and Magnetism (Loyola)  
Intro to American Government (UCI)  
Psychology Fundamentals I/II (UCI)  
American Culture [Writing-Intensive] (UCI)

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## Pedagogy Training

- Microaggression & Bystander Intervention Training (2020, 2022)
  - Workshop on Teaching and Learning in Philosophy (2019)
  - Teaching Assistant Professional Development Program (2016)
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## Service Work & Outreach

- Referee, *Philosophy of Science*, *Foundations of Physics*, *European Journal for the Philosophy of Science*, *Studies in the History and Philosophy of Science*, *British Journal for the Philosophy of Science*
  - Presenter, WonderPhilosophy Workshop (2022)
  - Co-Organizer, WonderPhilosophy Workshop (2021)
  - Co-Organizer, Conference on Philosophical Aspects of Simulation in Astrophysics & Cosmology (2021)
  - Elected Officer, UC Student-Worker Union (2017-2020)
  - Graduate Student Rep., UCI Department of Logic and Philosophy of Science (2019-2020)
  - Representative, UCI Associated Graduate Students (2019-2020)
  - Mentor, UCI THINK (2017-2019)
  - Coordinator, Irvine Philosophy of Physics Reading Group (2017-2018)
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