

# Curriculum Vitae

Shannon Sylvie Abelson  
Department of Philosophy  
Indiana University Bloomington  
1033 East Third Street  
Sycamore Hall 026  
Bloomington, IN 47405  
[abelson@iu.edu](mailto:abelson@iu.edu)  
[Personal Website](#)

## Education

Ph.D. Philosophy      *Indiana University, Bloomington, Spring 2023 (expected)*  
Minor: History and Philosophy of Science

Master of Science, Astronomy      *Swinburne University, Fall 2023 (expected)*

Graduate Certificate, Astronomy      *Swinburne University, 2021*

Master of Arts, Philosophy      *Virginia Tech, 2015*

Bachelor of Arts Philosophy, German      *Stetson University, 2013*  
Magna Cum Laude  
Minor in History

**AOS:** Philosophy of Astronomy and Astrophysics, Epistemology of Science, Models and Simulations

**AOC:** General Philosophy of Science, Philosophy of Climate Science, History of Analytic Philosophy

## Publications

- (Forthcoming) “Simulation and Experiment Revisited: Temporal Data in Astronomy and Astrophysics”  
Edited Volume, *Philosophy of Astrophysics: Stars, Simulations, and the Struggle to Determine What Is Out There*, Synthese Library - Studies in Epistemology, Logic, Methodology, and Philosophy of Science, Eds. Nora Boyd and Siska de Baerdemaeker.
- (2022) “[Variety of Evidence in Multimessenger Astronomy](#),” *Studies in History and Philosophy of Science* 94: 133-142.
- (2022) “[The Fate of Tensor-Vector-Scalar Alternative Gravity](#),” *Foundations of Physics* 52 (1): 1-19.

## Works in Progress

- Eliminative Reasoning in Astronomy and Astrophysics (*manuscript*)
- Increasing Confidence in Machine Learning for Data-Driven Astronomy (*manuscript*)

## Research Presentations

### Invited Presentations

- Black Hole Initiative March 14, 2022  
Invited Colloquium Series  
Harvard University  
“Eliminative Reasoning in Astronomy and Astrophysics”
- Lichtenberg Group for History and Philosophy of Physics April 27, 2021  
Invited Colloquium Series  
University of Bonn  
“The Fate of Tensor-Vector-Scalar Alternative Gravity”
- IU History and Philosophy of Science Fall Forum November 29, 2018  
“Testing Modified Gravity Models”

### Refereed Presentations

- Philosophy of High Energy Physics March 26-27, 2022  
Early Career Workshop  
University of Pittsburgh  
“Simulation and Experiment Revisited: Temporal Data in Astronomy and Astrophysics”
- AGPhil: Arbeitsgruppe Philosophie der Physik March 21, 2022  
der Deutschen Physikalischen Gesellschaft e.V., Frühjahrstagung  
(Working Group: Philosophy of Physics  
The German Physical Society, Spring Meeting)  
Heidelberg, Germany  
“Holistic Eliminative Reasoning for Astronomy and Astrophysics”
- American Philosophical Association: Central Division February 25, 2022  
Chicago, IL  
“Simulation and Experiment Revisited: Temporal Data in Astronomy and Astrophysics”

- Indiana Philosophical Association November 13, 2021  
“The Fate of Tensor-Vector-Scalar Alternative Gravity”
- 2020/2021 Philosophy of Science Association Meeting November 2020/2021  
Poster Forum, Baltimore, MD  
“Reducing Uncertainty in Multimessenger Astronomy  
Using Simulation”
- 8th Integrated History and Philosophy of Science Conference July 15-17, 2020  
(&HPS8) Arlington, VA  
“Testing Modified Models of Gravity”  
Moved to Asynchronous due to Covid-19  
<https://www.youtube.com/watch?v=gS1wb6Zdno0>
- Society for Philosophy of Science in Practice July 7-10, 2020  
East Lansing, MI.  
“Variety of Evidence in Multimessenger Astronomy”  
Cancelled due to Covid-19
- American Association of Philosophy Teachers/  
American Philosophical Association Central Meeting 2020 February 28, 2020  
Teaching Hub Poster Forum  
“Teaching Climate Ethics Using a Model Climate Forum”
- History of Science Society Annual Meeting November 10, 2017  
Toronto, ON  
“Einstein And the Michelson-Morley Experiment:  
The Context of Justification Revisited”
- Thirteenth Biennial History of Astronomy Workshop July 8, 2017  
University of Notre Dame  
“Explanation and Unification: A Closer Look at Aristotle’s  
Astronomical Model”
- Arizona State University Graduate Philosophy Conference February 4, 2017  
“Moritz Schlick on Confirmation, Observation, and Conceptual  
Frameworks”

### **Awards Presentations**

- 2020 Nelson Dissertation Fellowship Lecture September 18, 2020  
Indiana University Bloomington  
“Variety of Evidence in Multimessenger Astronomy”

## Academic Work Experience

### Instructor of Record

- Instructor of Record, Business and Morality Spring 2021  
Original course designed entitled, “Business and Sustainability” that examined ethical business practice in light of concerns in the domain of broad sustainability, including environmental, economic, social, and cultural sustainability.
- Instructor of Record- Introduction to Ethics Spring 2019  
Original course designed entitled, “Climate Ethics” that examined contemporary ethical concerns related to global climate change.
- Instructor of Record- Introduction to Ethics Spring 2018  
Original course designed entitled, “Ethics and Star Trek” that examined classical ethical theories using supplemental science fiction case studies.

### Standalone Instructor

- Associate Instructor, Public Speaking Fall 2022

### Associate Instructor/Research Assistant

- Associate Instructor, Bioethics Fall 2020
- Associate Instructor- Symbolic Logic Fall 2018
- Research Assistant to Professor Sandra Shapshay Fall 2017
- Associate Instructor- Philosophical Methods Spring 2017
- Associate Instructor- Introduction to Ethics Fall 2016
- Graduate Teaching Assistant- Morality and Justice Spring 2015
- Graduate Teaching Assistant- Morality and Justice Fall 2014
- Graduate Teaching Assistant- Knowledge and Reality Spring 2014
- Graduate Teaching Assistant- Knowledge and Reality Fall 2013

### Grader and Tutor

- Grader and Tutor, Virtue Ethics Fall 2021
- Grader and Tutor, Classics in Philosophy of Art Spring 2021
- Grader and Tutor, Medieval Philosophy Fall 2020
- Grader and Tutor, Virtue Ethics Spring 2020
- Grader and Tutor, Medieval Philosophy Fall 2019

### **Sample Syllabi Available For:**

- Business and Sustainability (200 level)
- Climate Ethics (100 level)
- Star Trek and Ethics (100 level)
- Introduction to Philosophy of Science (100 level)
- Introduction to Ethical Theory (100 level)
- Introduction to Philosophy: Metaphysics and Epistemology (100 level)
- Philosophy of Technology (3-400 level and above)
- Space Sustainability (2-300 level)
- Immanuel Kant (300 level and above)
- History of Analytic Philosophy (200 level)

### **Awards and Fellowships**

- President's Diversity Dissertation Fellowship, Indiana University 2021-2022
- Ewing Graduate Essay Prize 2021
- James B. Nelson Dissertation Fellowship, Indiana University 2019- 2020
- Bo and Lynn Clark Graduate Essay Prize 2017
- Academic Excellence Award, Indiana University 2016
- College of Arts and Sciences Fellowship, Indiana University 2015- 2016
- Phi Beta Kappa, National Academic Honor Society 2014- present
- Marjorie Grene Prize in Philosophy, Virginia Tech 2015
- Ronald L. and Margaret Smith Hall Philosophy Award 2013
- Omicron Delta Kappa, National Leadership Honors Society 2013- present

### **Professional Development and Professional Experience**

- Public Speaking Pedagogy Training Module (35 hours) August 8-12, 2022
- Administrative Assistant, Haven Health Care 2022-present
- Representative, Department Climate Committee 2021-2022  
IU Department of Philosophy
- Certificate, R Programming August 2020
- 2020 Indiana Black Expo Education Conference July 14-16, 2020
- Referee, Studies in History and Philosophy of Modern Physics July 2019
- Chair, session on "Models in Science" November 5, 2018  
2019 Philosophy of Science Association Meeting
- Co-President, Virginia Tech Graduate Philosophy Club Fall 2014- Spring 2015  
Planned and organized the department's annual graduate conference.
- Commenter November 15, 2014  
Virginia Tech Graduate Conference on Pragmatism
- Philosophy Department Delegate Fall 2013- Spring 2014  
Virginia Tech Graduate Assembly