

# ZOE C.M. ASHTON

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ashton.95@osu.edu | zcmashton.com  
Dept of Philosophy, The Ohio State University | 230 N Oval Mall, Columbus, OH 43210

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## Research Areas

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- AOS: Philosophy of Mathematics, Philosophy of Science, Epistemology, Logic
- AOC: Philosophy of Language, Experimental Philosophy, Philosophy of Technology & Big Data, Feminist Philosophy

## Education

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<b>PhD Philosophy</b> <i>The Ohio State University</i>	2018-Present Expected July 2024
<b>MS Statistics</b> <i>The Ohio State University</i>	2018-Present Expected July 2024
<b>MA Philosophy</b> <i>Simon Fraser University</i>	2016-2018
<b>BA Humanities</b> <i>Florida Institute of Technology, Summa Cum Laude</i>	2013-2016
<b>BS Mathematical Sciences</b> <i>Florida Institute of Technology, Magna Cum Laude</i>	2013-2016
<b>AA General Education</b> <i>Eastern Florida State College, Honors</i>	2010-2013

## Publications

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### Peer-Reviewed Journals

4. **Ashton, Z.** (2021) Audience role in mathematical proof development. *Synthese*, 198, pgs 6251–6275. doi: 10.1007/s11229-020-02619-x
3. Moreno, M., Bain, T., Moreno, M., Carroll, K., Cunningham, E., **Ashton, Z.**, Poteau, R., Subasi, E., Lipkowitz, M., Subasi, M. (2021) Identifying Clinical and Genomic Features Associated with Chronic Kidney Disease (CKD). *Frontiers in Big Data*, 3, 9 pgs. doi: 10.3389/fdata.2020.528828.
2. **Ashton, Z.**, Mizrahi, M. (2018) Show Me the Argument: Empirically Testing the ‘Armchair Philosophy’ Picture. *Metaphilosophy*, 49(1-2), pgs 58-70. doi: 10.1111/meta.12279
1. **Ashton, Z.**, Mizrahi, M. (2017) Intuition Talk is Not Methodologically Cheap: Empirically Testing the “Received Wisdom” about Armchair Philosophy. *Erkenntnis*, 83(3), pgs 595-612. doi: 10.1007/s10670-017-9904-4

### Refereed Proceedings & Book Chapters

2. Aberdein, A., **Ashton, Z.** (Forthcoming) Argumentation in Mathematical Practice in: Sriraman, B., *Handbook of the History and Philosophy of Mathematical Practice*, Springer, 23 pgs.

1. **Ashton, Z.** (2018) Mathematical Problem Choice and the Contact of Minds in: Zack, M. and Schlimm, D., *Research in History and Philosophy of Mathematics*, Springer, pgs. 191-203. doi:10.1007/978-3-319-90983-7-13

### **Book Reviews**

1. Fillion, N., **Ashton, Z.** (2017) Review of Roi Wagner's *Making and Breaking Mathematical Sense: Histories and Philosophies of Mathematical Practice*. *Canadian Mathematical Society Notes*, 49(5).

### **Technical Reports**

1. **Ashton, Z.**, Wendelberger, J., Ticknor, L., Turton, T., Samsel, F. (2015) Analyzing Task-Based User Study Data to Determine Colormap Efficiency. doi:10.2172/1210206

## **Presentations**

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### **Invited Talks**

5. Oct 2022. *How the Standard View of Rigor and the Standard Practice of Mathematics Clash*. Logic Colloquium Series, University of Connecticut.
4. Nov 2021. *Each Another's Audience: A Rhetorical Account of Rigor*. Seminar on Rigor, Princeton University (virtual).
3. Oct 2021. *Each Another's Audience: A Rhetorical Account of Rigor*. CSHPM Colloquium Series (virtual).
2. Oct 2020. *Linking IBL and Research through Audience-Based Heuristics*. American Mathematical Society, Fall Western Sectional Meeting (virtual).
1. Aug 2020. *The Role of Audience in Proof Methods*. Topics in Philosophy of Mathematical Practice 2020 (virtual).

### **Contributed Talks**

13. May 2023. *New Objections to the Standard View of Rigor*. Canadian Society for the History and Philosophy of Mathematics Meeting, York University.
12. July 2021. *Formal Rigor and Mathematical Environments*. Joint Meeting of the British Society for the History of Mathematics and the Canadian Society for the History and Philosophy of Mathematics (virtual).
11. Jan 2021. *Silencing Oneself: A Result of Epistemic Injustice*. American Philosophical Association, Eastern Meeting (virtual).
10. Jan 2020. *Developing Dots: The Role of Audience in Proof Methods*. International Meeting of the Association for the Philosophy of Mathematical Practice, ETH Zürich.
9. June 2019. *Mathematical Rigor and Audience-Centered Proof Development*. Masterclass in the Philosophy of Mathematical Practice, Vrije Universiteit Brussel.
8. June 2019. *Silencing Oneself: A Result of Epistemic Injustice*. Canadian Philosophy Association Meeting, University of British Columbia.
7. June 2019. *Agency, Action, and ACTION-IS*. Canadian Society for the History and Philosophy of Science Meeting, University of British Columbia.

6. June 2019. *Proof Development, Presentation, and Particular Audiences*. Canadian Society for the History and Philosophy of Mathematics Meeting, University of British Columbia.
5. April 2019. *Explanation by Effect: Regression to the Mean and Causation*. American Philosophical Association, Pacific Meeting.
4. June 2018. *Audience-Reflective Proof: A Case Study from Knot Theory*. Canadian Society for the History and Philosophy of Mathematics Meeting, Université du Québec à Montréal.
3. May 2017. *Perelmanian Proofs and the Room for Audiences in Mathematical Argument*. Canadian Society for the History and Philosophy of Science Meeting, Ryerson University.
2. May 2017. *Mathematical Proof and the Contact Between Minds*. Canadian Society for the History and Philosophy of Mathematics Meeting, Ryerson University.
1. July 2015. *Analyzing Task-Based User Studies Data to Determine Colormap Efficiency*. Talking to Ourselves, Los Alamos National Laboratory.

### Poster Presentations

3. Feb 2023. *Each Another's Audience: An Audience Based Account of Mathematical Rigor*. São Paulo School of Advanced Science on Contemporary Logic, Rationality, and Information at Campinas, Brazil.
2. April 2016. *Clinical and Genomic Risk Factors of Chronic Kidney Disease*. Board of Trustees Meeting, Florida Institute of Technology at Melbourne, FL.
1. April 2016. *Clinical and Genomic Risk Factors of Chronic Kidney Disease*. Northrop Grumman Engineering & Science Student Design Showcase, Florida Institute of Technology at Melbourne, FL.

## Teaching Experience

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### As Instructor of Record

**Intro to Logic (PHILOS 1500)** Fall 2022  
*The Ohio State University, Dept of Philosophy*

**Probability, Data, and Decision Making (PHILOS 1520)** Spring 2022, Spring 2023  
*The Ohio State University, Dept of Philosophy*

**Intro to Logic & Legal Reasoning (PHILOS 1501)** Fall 2021, Summer 2022  
*The Ohio State University, Dept of Philosophy*

### As a Teaching Assistant

**Symbolic Logic (PHILOS 2500)** Spring 2021  
*The Ohio State University, Dept of Philosophy*

**Concepts of Existentialism (PHILOS 3261)** Fall 2020  
*The Ohio State University, Dept of Philosophy*

**Statistics Workshop Facilitator** Spring 2018  
*Simon Fraser University, Dept of Statistics and Actuarial Sciences*

**Critical Thinking (PHIL 105)** Spring 2018  
*Simon Fraser University, Dept of Philosophy*

**Logic (PHIL 110)** Fall 2017, Summer 2018  
*Simon Fraser University, Dept of Philosophy*

**Moral Problems (PHIL 120W)**  
*Simon Fraser University, Dept of Philosophy*

Spring 2017

**Knowledge & Reality (PHIL 100W)**  
*Simon Fraser University, Dept of Philosophy*

Fall 2016, Summer 2017

## Research Positions

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**The Ohio State University, Dept of Linguistics** 2021  
*Research Assistant for Craige Roberts*  
Assembled a digital repository for research on the QUD Model of Discourse.

**Simon Fraser University, Dept of Philosophy** 2018  
*Research Assistant for Endre Begby*  
Designed and led GRE preparation workshops.

**Simon Fraser University, Dept of Philosophy** 2018  
*Research Assistant for Holly Andersen*  
Designed training resources for teaching assistants.

**Simon Fraser University, Dept of Philosophy** 2016-2017  
*Research Assistant for Nicolas Fillion*  
Analyzed data on threshold concepts in logic courses.

**Los Alamos National Laboratory** 2015  
*Research Intern for Joanne Wendelberger*  
Developed and analyzed survey data on colormap effectiveness

## Honors & Awards

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**Graduate Merit Award** 2023  
*Congress of the Humanities and Social Sciences*  
Prize for exceptional graduate presentations.

**Arts & Humanities Graduate Research Small Grant** 2023  
*The Ohio State University*  
College-wide award for travel funding.

**Graduate Teaching Associate Teaching Award** 2022  
*The Ohio State University, Philosophy Dept*  
Dept-wide award to recognize exceptional teaching.

**Fink Merit Essay Award** 2020  
*The Ohio State University, Philosophy Dept*  
Pandemic-version of dept-wide conference paper award.

**Fink Conference Award** 2019  
*The Ohio State University, Philosophy Dept*  
Dept-wide essay award for conference presentations.

**Arts & Humanities Graduate Research Small Grant** 2019  
*The Ohio State University*  
College-wide award for travel funding.

**Dean's Distinguished Graduate Fellowship** 2018  
*The Ohio State University*  
University-wide 3-year research fellowship with stipend.

**KEY Big Data Graduate Scholarship** 2018  
*Simon Fraser University, Big Data Initiative*

University-wide research scholarship for big data projects.

**GRFP Honorable Mention** 2018

*National Science Foundation*

National graduate fellowship competition through NSF.

**Professional Development Grant** 2017

*Simon Fraser University, Graduate Student Society*

University-wide small grant for conference travel.

**Graduate Fellowship** 2017

*Simon Fraser University, Dept of Philosophy*

Dept-wide financial award for graduate study.

**Special Graduate Entrance Scholarship** 2016

*Simon Fraser University, Dept of Philosophy*

Dept-wide financial award for graduate study.

**School of Arts and Communication Outstanding Senior** 2016

*Florida Institute of Technology*

Dept-wide award for undergraduate students.

**Distinguished Student Scholar** 2016

*Florida Institute of Technology*

Dept-wide award for undergraduate students.

**President's Award for Best in Show in College of Science** 2016

*Northrop Grumman Engineering & Science Student Design Showcase, FIT*

University-wide competition for undergraduate thesis projects.

**Science Undergraduate Laboratory Internship** 2015

*U.S. Department of Energy*

National competition for undergraduate research grant.

**Distinguished Student Scholar** 2015

*Florida Institute of Technology*

University-wide award for undergraduate students.

**Math Department Outstanding Academic Student Award** 2013

*Eastern Florida State College*

Dept-wide award for undergraduate students.

## **Summer School Participation**

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**São Paulo School of on Contemporary Logic, Rationality, and Information** Feb 2023

*State University of Campinas*

**Ninth Summer School on Formal Techniques** May 2019

*SRI International*

**Summer School on Mathematical Philosophy for Female Students** July 2017

*Munich Center for Mathematical Philosophy*

**Sixth Summer School on Formal Techniques** May 2016

*SRI International*

**Data Science at Scale School** June 2015

*Los Alamos National Laboratory*

## Service

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### As a Reviewer

- *Cambridge Elements*
- *Foundations of Science*
- *Organon F*
- *Synthese*
- FONDECYT-CHILE

### As a Conference Chair

- Text-Driven Approaches to the Philosophy of Mathematics 2 (2021)
- Joint Meeting of BSHM and CSHPM (2021)
- Workshop on Disagreement in Mathematics (2021)
- Central APA (2020)
- The PSR: Then and Now (2018)
- Pacific APA (2017)

### Service to Dept and Group Leadership

- President, Society for Philosophy of Science, OSU (2023-Current)
- Graduate Representative, OSU (2022-2023)
- Co-Chair, Graduate Recruitment Committee, OSU (2021)
- Second Leader, Society for History of Analytic Philosophy, OSU (2020)
- Secretary, Philosophy Graduate Student Society Caucus, SFU (2016-2018)

## Graduate Coursework

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### Philosophy

- Philosophy of Language: Plurals
- Philosophy of Science: Physical Computation
- Theory of Knowledge: Testimony and Trust
- Advanced Symbolic Logic
- History of Philosophy: Newtonianism and Mechanism
- Value Theory: Philosophy of Emotions
- Theory of Knowledge: Moral Knowledge
- Philosophy of Logic: Number
- History of Philosophy: Phenomenology & Existentialism
- Metaphysics: Carnap, Quine, & Sellars
- Philosophy of Mathematics (Audited)
- Aesthetic Theory (Audited)
- Philosophy of Cognitive Science (Audited)
- Metaphysics: Pragmatism (Audited)
- Philosophy of Logic: Infinity & Continuity (Audited)
- Model Theory
- Post-Kantian Ethics
- Philosophy of Science: Explanation and Causation
- Mathematics of Morality
- Philosophy of Language: Semantics and Pragmatics
- The Principle of Sufficient Reason
- Anti-Theory and Care Ethics
- Formal Epistemology (Audited)

## **Statistics and Operations Research**

- Statistical Theory I & II
- Foundations of the Linear Model
- Applied Statistics I & II
- Applied Bayesian Analysis
- Theory of the Linear Model
- Survey Methodology
- Applied Non-Parametric Statistics
- Stochastic Operations Research Models
- Mathematical Statistics I
- Deterministic Operations Research Models
- Advanced Computer Vision
- Theory of Stochastic Processes

## **References**

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### **Stewart Shapiro**

*Dept. of Philosophy, Ohio State University*  
shapiro.4@osu.edu | 614-292-7914

### **Christopher Pincock**

*Dept. of Philosophy, Ohio State University*  
pincock.1@osu.edu | 614-292-7914

### **Dirk Schlimm**

*Dept. of Philosophy, McGill University*  
dirk.schlimm@mcgill.ca | 514-398-2753

### **Andrew Aberdein**

*School of Arts & Communication, Florida Institute of Technology*  
aberdein@fit.edu | 321-674-8368

### **Lisa Shabel (Teaching Reference)**

*Dept. of Philosophy, Ohio State University*  
shabel.1@osu.edu | 614-292-7858