

# Jeremy Steeger

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## Areas of Specialization / Competence

### AOS

- Philosophy of Physics
- Philosophy of Science

### AOC

- Philosophy of Probability
- Philosophy of Logic
- Formal Epistemology

## Education

- 2013–present **PhD Candidate, History and Philosophy of Science**, *University of Notre Dame*, Notre Dame, IN.
- June 2013 **Bachelor of Science, Physics**, *Massachusetts Institute of Technology*, Cambridge, MA.

## Dissertation Abstract

### Quantum Probabilism: New Foundations for Subjective Quantum Probabilities

One orthodox approach to quantum probabilities takes some of them to be subjective—namely, those given by proper mixtures. I present a novel philosophical analysis of this approach, and I defend it by modifying the ‘Dutch book’ and accuracy-dominance arguments for probabilism. I also critically examine several previous applications of ‘Dutch book’ arguments to quantum probabilities.

## Papers

### Publications

- 2018 **‘Probabilism for Stochastic Theories’**, *Studies in History and Philosophy of Modern Physics*, <https://doi.org/10.1016/j.shpsb.2018.10.004>.
- 2018 **‘Two Forms of Inconsistency in Quantum Foundations’**, with Nicholas Teh, *The British Journal for the Philosophy of Science*, axy071, <https://doi.org/10.1093/bjps/axy071>.

### In preparation

#### **‘Betting on Quantum Objects’.**

Preprint: <https://arxiv.org/abs/1707.06566>

#### **‘In What Sense Are Non-Classical Probabilities Subjective?’.**

*Draft available upon request.*

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## Selected Presentations

Probabilism for Stochastic Theories

June 2018 **XXI International Summer School in Philosophy of Physics**, *University of Urbino*.

Two Forms of Inconsistency in Quantum Foundations

Nov. 2018 **PSA 2018**, *Seattle, Washington*.

As 'Hidden Variables and Subjective Probability'.

May 2018 **Controlled Quantum Dynamics Group Seminar**, *Imperial College London*, Invited Speaker.

Betting on Quantum Objects

Jan. 2018 **Hong Kong Workshop on Quantum Information and Foundations**, *University of Hong Kong*, Invited Speaker.

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## Teaching Experience

Spring 2019 **Topics in Philosophy of Physics: Puzzles of the Quantum**, *Instructor of Record*.

Fall 2017 **Introduction to Philosophy of Science**, *Instructor of Record*.

Fall 2015 **Introduction to Philosophy**, *Teaching Assistant*, for Prof. Meghan Sullivan.

Fall 2014 **Cosmology and Philosophy**, *Teaching Assistant*, for Prof. Katherine Brading.

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## Service

Fall 2018 **HPS Writing Group**, *University of Notre Dame*, Organizer.

Fall 2018 **Philosophy of Physics Reading Group**, *University of Notre Dame*, Organizer.

July 2018 **First Biennial Midwest Summer School in Philosophy of Physics**, *University of Chicago*, Discussion Leader.

April 2018 **Contextuality and Special Topics in Quantum Foundations Workshop**, *University of Notre Dame, London*, Organizer.

2017–2018 **Undergrad Mentoring Program**, *University of Notre Dame*, Graduate Mentor.

April 2017 **8th Annual Notre Dame/Northwestern Graduate Epistemology Conference**, *University of Notre Dame*, Referee.

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## Visits, Fellowships, and Prizes

2018 **Visitor at the Centre for Philosophy of Natural and Social Science (CPNSS)**, *London School of Economics*.

Funded by the National Science Foundation under Grant #1734155.

2017 **Institute for Scholarship in the Liberal Arts (ISLA) Professional Development Award**, *University of Notre Dame*.

2017 **Phillip Sloan Prize**, *University of Notre Dame*.

Awarded to the top student in the History and Philosophy of Science Graduate Program.

2014–2018 **Bernard J. and Helen Holland Voll Presidential Fellow**, *University of Notre Dame*.