

Josh R. Hunt

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RESEARCH/TEACHING AREAS

- AOS Philosophy of Science, Philosophies of Physics and Mathematics.
- AOC Epistemology, Metaphysics, Logic, Decision theory, Applied Ethics.

EDUCATION

- 2015-2022 **Ph.D. in Philosophy**, *University of Michigan*, Ann Arbor.
Thesis: "Symmetry and Reformulation"
Supervisor: Prof. Laura Ruetsche
- 2017-2018 **M.S. in Mathematics**, *University of Michigan*, Ann Arbor.
- 2014-2015 **M.Phil. in History and Philosophy of Science**, *University of Cambridge*,
First Class Distinction.
Thesis: "Interpreting the Wigner-Eckart Theorem"
Supervisor: Prof. Jeremy Butterfield
- 2010-2014 **B.Phil. in Philosophy (Honors College)**, *University of Pittsburgh*,
summa cum laude.
Thesis: "Group Theory or No Group Theory"
Supervisor: Prof. Kenneth Manders
- 2010-2014 **B.S. in Chemical Engineering**, *University of Pittsburgh*, *summa cum laude*.

PUBLICATIONS

- (forthcoming) "Epistemic Dependence & Understanding: Reformulating through Symmetry,"
British Journal for the Philosophy of Science.
- (forthcoming) "Understanding and Equivalent Reformulations," *Philosophy of Science*, 88 (5).
- 2021 "Interpreting the Wigner-Eckart Theorem", *Studies in History and Philosophy of Science*, 87: 28-43.
- 2016 "Indispensability and the Problem of Compatible Explanations," *Synthese*, 193 (2): 451-467.

AWARDS & FELLOWSHIPS

- 2020-2021 **Rackham Pre-doctoral Fellowship**, *University of Michigan*.
- 2020 **John Dewey Teaching Prize**, *University of Michigan Philosophy department*,
(Annual award for excellence in graduate student teaching).
- 2015-2019 **National Science Foundation**, *Graduate Research Fellowship Program*.
- 2015 **Hanneke Janssen Memorial Prize in History and Philosophy of Physics**,
(International prize administered by University of Nijmegen Netherlands, for
the best Masters degree thesis in history or philosophy of physics).
- 2015 **Redhead Essay Prize**, *University of Cambridge*, (Best essay performance in
the History and Philosophy of Science and Medicine MPhil course).
- 2014-2015 **Cambridge Trust Scholarship**, *University of Cambridge*.
- 2014-2015 **HPS Trust Fund Maintenance Award**, *University of Cambridge*.

- 2014 **Fulbright Student Research Grant**, Norway, (declined).
- 2010-2014 **Chancellor's Scholarship**, *University of Pittsburgh*, (Full tuition, room and board for four years).

TALKS

- 2/2022 "Norms to Explain By." American Philosophical Association, Central Division: Chicago.
- 10/2021 "Norms to Explain By." Young Scholars Pragmatism Conference: Cambridge University.
- 7/2021 "Norms to Explain By." Conference on Difference-Making and Explanatory Relevance: Hamburg Relevance Group (online).
- 7/2020 "Making it manifest: the Epistemic Significance of Good Variables." British Society for Philosophy of Science, *Canceled due to COVID-19*.
- 7/2020 "The Methodological Significance of Good Variable Choices." Society for Philosophy of Science in Practice, *Canceled due to COVID-19*.
- 9/2019 "Modularization and Understanding through Symmetry: A Case Study from Crystal Field Theory." Cushing Workshop: University of Notre Dame.
- 6/2019 "Modularization and Understanding through Symmetry: A Case Study from Crystal Field Theory." Philosophy of Logic, Mathematics, and Physics Graduate Student Conference: Western University.
- 4/2019 "Staying on-shell: Modern Methods for Scattering Amplitudes." Early Career Workshop in Philosophy and History of Physics: University of Pittsburgh.
- 11/2018 "Modern Methods for Scattering Amplitudes." Ken Manders's retirement conference: University of Pittsburgh.
- 7/2018 "Symmetry and Degeneracy in the Hydrogen Atom." Foundations 2018: Utrecht University.
- 6/2018 "Modularization and Understanding through Symmetry." MuST Models of Explanation: University of Turin.
- 10/2017 "Symmetries in Crystal Field Theory." Midwest PhilMath Workshop: University of Notre Dame.
- 7/2017 Comments on De Haro and Butterfield's "A Schema for Duality." Symmetries and Asymmetries in Physics: Leibniz Universitat Hannover.
- 6/2017 "Symmetry and Degeneracy in the Hydrogen Atom." Philosophy of Logic, Mathematics, and Physics Graduate Student Conference: Western University.
- 12/2015 "Interpreting the Wigner-Eckart Theorem." Hanneke Janssen Memorial Prize: Radboud University, Nijmegen, Netherlands.
- 7/2015 "On Wedderburn's Theorem Applied to Geometry: Response to Douglas Marshall." Case Studies in Mathematical Practice: Paris.
- 11/2014 "Understanding Ligand Field Theory through Symmetry." International Society for Philosophy of Chemistry Symposium. Philosophy of Science Association: Chicago.
- 6/2013 "Group Theory or No Group Theory: Understanding Atomic Spectroscopy." Society for Philosophy of Science in Practice: Toronto.
- 11/2012 "Response to Busch: Compatible Explanations Underdetermine Mathematical Truth." Indispensability and Explanation Workshop. IHPST: Paris.

TEACHING

AS PRIMARY INSTRUCTOR

- Spring 2020 **Science Fiction & Philosophy**, *PHIL 154*, (online due to COVID-19).
Winter 2018-20 **Method and Logic in the Biomedical Sciences**, *PHYSIOL 555*,
(four guest lectures in the Physiology department each year).

AS GRADUATE STUDENT ASSISTANT

- Fall 2021 **Critical Reasoning**, *PHIL 183*, (for Dr. Anna Edmonds).
Winter 2019 **Symbolic Logic**, *PHIL 303*, (for Prof. Jamie Tappenden).
Fall 2018 **Issues in Bioethics**, *PHIL 356*, (for Prof. Sarah Buss).
Winter 2018 **Groups & Choices**, *PHIL 444*, (for Prof. Brian Weatherson).
Fall 2017 **Law & Philosophy**, *PHIL 359*, (for Prof. Ishani Maitra).

SERVICE TO PROFESSION

- 2016-21 **Workshop organizer**, *UM Foundations of Modern Physics*, Workshops on
Cosmology, Particle Physics, and Theoretical Reformulations.
2017- **Reviewer**, *Philosophy of Science, Erkenntniss, European Journal for Philoso-*
phy of Science, Synthese, Critica.
2017-18 **Editor**, *Philosopher's Annual.*

SERVICE TO DEPARTMENT

- 2020- **Well-being and Peer Support Mentor for graduate students.**
2019-21 **Graduate Student Mentor**, (Training and evaluation of teaching assistants).
2018-19 **Co-organizer**, *2nd Biannual Alumni Conference.*
2018-19 **Graduate Student Representative to Faculty.**
2018-19 **Admissions Committee**, (*Organizing recruitment for graduate students*).
2017-19 **Organizer**, *Weekly Department Tea & Annual Picnic.*
2017-18 **Graduate Student Social Chair.**

OUTREACH

- 2018- **Co-organizer**, *Philosophy with Kids.*
2017- **Volunteer philosophy mentor**, *COMPASS Workshop.*
2016-18 **Volunteer Science/Math Tutor**, *826 Michigan.*
2014-15 **Volunteer**, *Whipple Museum of the History of Science.*
2014-15 **A-Level Chemistry Tutor**, *Cambridge STIMULUS.*
2013-14 **Sixth-Grade Math Tutor**, *Pittsburgh Higher Achievement.*
2012-14 **Volunteer**, *Pitt Science Outreach.*
2012-14 **Volunteer**, *Scientists, Engineers, and Mathematicians for Service.*