

AGNES BOLINSKA

Department of Philosophy
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APPOINTMENTS

Aug 2020–	Assistant Professor, Department of Philosophy, University of South Carolina
Oct 2018–Aug 2020	College Research Associate, Clare College, University of Cambridge
Sept 2017–Aug 2020	Research and Teaching Associate, Department of History and Philosophy of Science, University of Cambridge
Jan–May 2017	Assistant Professor, Department of Philosophy, University of Wisconsin-Stevens Point
Sept–Dec 2016	Visiting Assistant Professor, Department of History and Philosophy of Science, University of Pittsburgh
Sept 2015–May 2016	Postdoctoral Fellow, Center for Philosophy of Science, University of Pittsburgh

EDUCATION

PhD	University of Toronto (2015) Dissertation: <i>Epistemic Representation in Science and Beyond</i> Committee: Joseph Berkovitz (chair), Anjan Chakravartty, Margaret Morrison
BSc (Honours)	University of Toronto (2006) Majors: Mathematics, History and Philosophy of Science; Minor: Biology

AREAS OF SPECIALIZATION AND COMPETENCE

AOS	Philosophy of Science, Philosophy of Biology
AOC	Philosophy of Medicine, Applied Ethics, Epistemology

REFEREED PUBLICATIONS

- Bolinska, A. (2023). 'Epistemic expression in the determination of biomolecular structure', *Studies in History and Philosophy of Science Part A*.
- Bolinska, A. (2022). 'A monist proposal: against integrative pluralism about protein structure', *Erkenntnis*.
- Bolinska, A. & Martin, J. D. (2021). 'The tragedy of the canon; or, path dependence in the history and philosophy of science', *Studies in History and Philosophy of Science Part A* 89: 63–73.
- Suárez, M. & Bolinska, A. (2021). Informative models: idealization and abstraction. In: Cassini A., Redmond J. (eds) *Models and Idealizations in Science. Logic, Epistemology, and the Unity of Science*, vol 50. Springer, Cham.

- Bolinska, A. & Martin, J. D. (2020). 'Negotiating history: contingency, canonicity, and case studies', *Studies in History and Philosophy of Science Part A* 80: 37–46.
- Winner of the 2019 International Union for the History and Philosophy of Science and Technology Essay Prize in the History and Philosophy of Science
 - Summarized in Bolinska, A. & Martin, J. D. (2019) 'What is the value of history of science for philosophy of science?', *Communiqué: Canadian Society for the History and Philosophy of Science* 100: 14–16.
- Bolinska, A. (2018). 'Synthetic versus analytic approaches to protein and DNA structure determination', *Biology and Philosophy* 33: 26.
- Bolinska, A. (2016). 'Successful visual epistemic representation', *Studies in History and Philosophy of Science Part A* 56: 153–60.
- Bolinska, A. (2013). 'Epistemic representation, informativeness and the aim of faithful representation', *Synthese* 190: 219–34.

FELLOWSHIPS, GRANTS, AND AWARDS

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| 2024–27 | Peter and Bonnie McCausland Faculty Fellowship, College of Arts and Sciences, University of South Carolina
<ul style="list-style-type: none"> • \$10,000 annual award and \$10,000 one-time research fund recognizing outstanding early-career faculty for excellence in research and teaching |
| 2019 | International Union for the History and Philosophy of Science and Technology Essay Prize in the History and Philosophy of Science (with Martin, J. D.) |
| 2017–19 | Social Sciences and Humanities Research Council Postdoctoral Fellowship (declined) |
| 2012, 2013 | Doctoral Completion Award |
| 2009, 2011 | Ontario Graduate Scholarship |
| 2006, 2008, 2010 | University of Toronto Fellowship |
| 2007 | T-Holder's Academic Excellence Award, Faculty of Physical Education and Health, University of Toronto |
| 2007 | Honourable Mention, Kiran van Rijn Essay Prize, History and Philosophy of Science and Technology Student Society |

INVITED TALKS

- 'Understanding integration: lessons from integrative modeling in structural biology' (with Sali, A.)
- Former Fellow Lunchtime Talk, Center for Philosophy of Science, University of Pittsburgh (via Zoom), October 2023 (presented by Bolinska, A.)
- 'Heuristics for effective model construction: lessons from integrative structural biology'
- Philosophy of Science in Practice Group Talk, University of Twente (via Zoom), June 2023
 - 5th Scientific Understanding and Representation workshop (SURE5), University of Toronto, May 2023
- 'Epistemic expression in the determination of DNA structure'
- Queen St. Symposium, Columbia, SC, October 2022

‘A framework for epistemic representation’

- Department of Philosophy, University of Toronto, January 2021

‘What is a canonical case?’ (with Martin, J. D.)

- Committee for Integrated HPS Panel, Philosophy of Science Association Biennial Meeting, Baltimore, November 2021 (presented by Bolinska, A.)
- Turning the mirror: from scientific pluralism to pluralism in HPS, University of Exeter, January 2020
- Path Dependency and Contingency workshop, Université de Lorraine, December 2019

‘The case for epistemic representation’

- Department of Philosophy Colloquium, University of South Carolina, February 2020
- Philosophy Department, Providence College, January 2020
- Department of Philosophy, San Diego State University, December 2019

‘Negotiating history: contingency, canonicity, and case studies’ (with Martin, J. D.)

- Path Dependency and Contingency workshop, Université de Lorraine, December 2019
- Possibility and Certainty in Laboratory Environments workshop, ICI Berlin Institute for Cultural Inquiry, October 2019 (presented by Martin, J. D.)
- 16th International Congress on Logic, Methodology and Philosophy of Science, Czech Technical University, August 2019
- Cambridge Philosophy of Science Seminar, University of Cambridge, January 2019

‘Determining the structure of biological macromolecules: theory, models, and data’

- Summer School in Philosophy of Molecular Biology, University of Rijeka, July 2019

‘Understanding function through multiple models of protein structure’ (with Gandier, J-A.)

- Summer School in Philosophy of Molecular Biology, University of Rijeka, July 2019
- Cambridge Philosophy of Science Seminar, University of Cambridge, May 2018

‘Protein structure, X-ray crystallography, and pluralism’ (with Chang, H.)

- Association for the Discussion of the History of Chemistry, University of Cambridge, March 2019

‘Synthetic versus analytic approaches to protein and DNA structure determination’

- Association for the Discussion of the History of Chemistry, University of Cambridge, October 2018

‘Towards an explication of scientific representation’

- Workshop on Representation in Science, Charles University, Prague, Czech Republic, May 2018

‘Visual epistemic representations as tools for gaining information’

- Department of Philosophy, University of Wisconsin-Stevens Point, October 2016
- Center for Philosophy of Science, University of Pittsburgh, September 2015

‘The epistemic function of molecular model construction in Watson and Crick's discovery of DNA structure’

- Women in Philosophy Seminar, Philosophy Course Union, University of Toronto, November 2014

REFEREED CONFERENCE PRESENTATIONS AND POSTERS

‘Models of Information’

- Ninth Quadrennial Fellows Conference, University of Miami, June 2024

‘Managing uncertainty: nested representation in integrative structure modeling’

- 17th Congress on Logic, Methodology, and Philosophy of Science and Technology, Buenos Aires, Argentina, July 2023
- South Carolina Society for Philosophy, University of South Carolina-Beaufort, April 2023

- ‘Heuristics for integrative structure modeling: how to use information effectively’ (poster, with Sali, A.)
- Philosophy of Science Association Biennial Meeting, Pittsburgh, November 2022
- ‘Epistemic expression in the determination of DNA structure’
- Canadian Society for the History and Philosophy of Science, University of Alberta, May 2021
- ‘The tragedy of the canon; or, path dependence in the history and philosophy of science’ (with Martin, J. D.)
- History of Science Society, New Orleans, October 2020 [*cancelled due to COVID-19*]
 - Integrated History and Philosophy of Science (&HPS) 8, Virginia Tech, July 2020 [*cancelled due to COVID-19; replaced by an author interview available at [the Circle: Philosophy, Science, and History](#)*]
- ‘Molecular models as tools for gaining information’
- 8th Biennial Conference of the Society for Philosophy of Science in Practice, Michigan State University, July 2020 [*cancelled due to COVID-19*]
 - Canadian Society for the History and Philosophy of Science, University of Western Ontario, May 2020 [*cancelled due to COVID-19*]
- ‘Negotiating history: contingency, canonicity, and case studies’ (with Martin, J. D.)
- British Society for the Philosophy of Science Annual Conference, Durham University, July 2019
 - Canadian Society for the History and Philosophy of Science, University of British Columbia, June 2019
- ‘Understanding function through multiple models of protein structure’ (with Gandier, J-A.)
- Models & Simulations 8, University of North Carolina, March 2018 (presented by Gandier, J-A.)
- ‘How to determine protein structure: challenges for integrative pluralism’ (with Gandier, J-A.)
- Canadian Society for the History and Philosophy of Science, Ryerson University, May 2017
- ‘Why order of evidence matters: an information-theoretic model for efficient molecular structure determination’
- Society for Philosophy Science in Practice Biennial Meeting, Aarhus University, June 2015
 - Canadian Society for the History and Philosophy of Science, University of Ottawa, May 2015
- ‘An account of successful epistemic representation’
- Models and Simulations 6, University of Notre Dame, May 2014
- ‘Towards an account of scientific representation’
- Models and Simulations 5, University of Helsinki, June 2012
 - Canadian Society for the History and Philosophy of Science, University of Waterloo, May 2012
- ‘The epistemic function of misrepresentational models’
- Canadian Society for the History and Philosophy of Science, University of New Brunswick, May 2011
- ‘Epistemic representation and Contessa’s interpretational account’
- Models and Simulations 4, University of Toronto, May 2010
 - Pitt-CMU Graduate Conference, University of Pittsburgh, March 2010
 - Virginia Tech Graduate Conference, November 2009

PANELS AND SYMPOSIA

Symposium Organizer, ‘History and philosophy of structural biology’

- 17th Congress of Logic, Methodology, and Philosophy of Science and Technology, Buenos Aires, July 2023

Symposium Organizer (with Aylward, A.), ‘Size matters: exploring the textual dimensions of scientific knowledge in four centuries of British publishing’
• 26th International Congress of History of Science and Technology, Prague, July 2021

Panelist, Integrating Values into Evidence-Based Medicine (INVITE) workshop, London School of Economics, October 2019

GRADUATE TEACHING AND ADVISING

University of South Carolina:

2022 *Independent Study* (PHIL 797), Elliott Sober’s *Evidence and Evolution*, Jim Stewart
2021 *Philosophy of Science* (PHIL 512)
2020– PhD Advisory Committee Chair, Jim Stewart

University of Cambridge:

2019–20 MPhil Manager, History and Philosophy of Science
2018–20 PhD Pastoral Advisor, Elizabeth Seger
2018–19 Part III (MSc) Manager, History and Philosophy of Science
2019 *Philosophy and Ethics of Medicine: Measuring Health* (MPhil seminar, with Anna Alexandrova)
2018, 2019 *Scientific Representation* (MPhil seminar)
2019 How to Write a Part III Set Essay, workshop for MSc students
2019–20 MPhil Research Presentation Convener
2017–19 MPhil Dissertation Supervisor
2017–20 MPhil Research Paper Supervisor
2017–2020 How to Write an HPS Essay, workshop for MPhil students

UNDERGRADUATE TEACHING

Philosophy of Science and Medicine:

2018–20 *Models in Scientific Practice* (Part II, Paper 5), University of Cambridge
2018–20 *Philosophy of Medicine: Quantifying Health* (Part II, Philosophy and Ethics of Medicine), University of Cambridge
2018–20 *HPS Part IB Philosophy of Science*, Supervisor, Clare College, University of Cambridge
2017–19 *The Stanford School* (Part II, Primary Source Seminar), University of Cambridge
2017–20 *Realism and Reductionism* (Part II, Paper 5), co-taught with Matt Farr and Tim Lewens, University of Cambridge

2011 *Introductory Philosophy of Science* (HPS250S), co-taught with Hakob Barseghyan, University of Toronto (St. George Campus)

Ethics and Moral Psychology:

2023–24 *How to Think in an Age of Political Polarization* (SCHC360), University of South Carolina

2020, 2022–23 *Communicating Moral Issues* (PHIL213), University of South Carolina

2021–24 *Medical Ethics* (PHIL321), University of South Carolina

2018–19 *Philosophy Part IA Ethics*, Supervisor, Clare College, University of Cambridge

2016 *The Nature of Emotions* (HPS605), University of Pittsburgh

2016 *Morality and Medicine* (HPS613), University of Pittsburgh

2015 *Bioethics* (PHL281F), University of Toronto (St. George Campus)

2015 *Biomedical Ethics* (PHLB09S), University of Toronto (Scarborough Campus)

General Introductory Courses:

2017 *Introduction to Philosophy* (PHIL100), University of Wisconsin-Stevens Point

2012 *The Development of Western Thought II* (HUM200), team-taught, Seneca College

UNDERGRADUATE ADVISING AND STUDENT SUPPORT

2023–24 Senior Thesis (SCHC 390) Supervisor, Mackenzie Manzi, “Becoming a master of phronesis: the power of reflection through storytelling”

2019 Part II Dissertation Seminar Convener

2017–19 Part II Primary Source Essay Supervisor, University of Cambridge

2017–18 Part II Dissertation Supervisor, University of Cambridge

2018 How to Revise for Exams, workshop for Part II (final-year) students, University of Cambridge

2018 Philosophy and Ethics of Medicine revision session for Part II (final-year) students, University of Cambridge

2017, 2018 How to Write an HPS Essay, workshop for Part II (final-year) students, University of Cambridge

Jan–May 2017 Undergraduate Advisor, University of Wisconsin-Stevens Point

2011–13, 2015 Undergraduate Advisor, Institute for the History and Philosophy of Science and Technology Writing Centre, University of Toronto

TEACHING ASSISTANTSHIPS (UNIVERSITY OF TORONTO)

Philosophy:

2014	<i>Reason and Truth</i> (PHLA10F)
2014	<i>Knowledge and Reality</i> (PHL232F)
2011–14	<i>Introduction to Philosophy</i> (PHL105Y)
2013	<i>Bioethics</i> (PHL281F)
2008–09	<i>Methodology, Theory, and Practice in the Natural Sciences</i> (VIC171Y)

History of Science:

2011, 2007	<i>Scientific Revolutions II</i> (HPS211S)
2010	<i>History of Evolutionary Biology II</i> (JHE355S)
2008	<i>Genes, Genetics and Biotechnology</i> (HMB201F)

PUBLIC PHILOSOPHY

- A Soundscape of Human Emotion* (with Dogon Krigga, Fiona Eirene, and John Schaffler)
- Interactive art installation, Philosophy of Five Points, Columbia, SC, November 2023

PROFESSIONAL DEVELOPMENT

Aug 2022	Participant, Teaching Civil Discourse Summer Seminar for Faculty, Duke University
Jan–May 2017	Shadow Instructor, <i>Critical Thinking</i> (PHIL121) and <i>Environmental Ethics</i> (PHIL380) University of Wisconsin-Stevens Point
Jan–May 2017	Critical Thinking Initiative Faculty Exploration Group, University of Wisconsin-Stevens Point
May 2016	Participant, <i>Science Outside the Lab North</i> Canadian science policy workshop, University of Ottawa and Concordia University
Jan–Apr 2015	Earned certification through <i>Teaching in Higher Education</i> (THE500) course, Centre for Teaching Support and Innovation, University of Toronto

PROFESSIONAL SERVICE

2024–	Assessor, Division for Logic, Methodology, and Philosophy of Science and Technology
2022–	Chair, Joint Commission of the International Union for History and Philosophy of Science and Technology
2023–24	Organizer (with Leah McClimans and Alfred Nordmann), Verification and Validation strand of the “Trust and Trustworthiness in Science and Technology: Challenges, Problems, Tensions” conference, Bielefeld University, October 2024

2022–	University of South Carolina Philosophy Department Liaison, the Consortium for Socially Relevant Philosophy of/in Science and Engineering
2022–24	Member, Steering Committee, Understanding Cancer: Philosophical Explorations Conference, University of South Carolina, March 2024
2022–24	Conference Organizer (with Leah McClimans), Society for the Philosophy of Science in Practice (SPSP) Biennial Meeting, University of South Carolina, May 2024
2022–23	Member, Conference Program Committee, XVIIth Congress on Logic, Methodology, and Philosophy of Science and Technology, July 24–29th, 2023, Buenos Aires, Argentina
2022–23	Chair, International Union for History and Philosophy of Science and Technology Essay Prize in History and Philosophy of Science Prize Committee
2021–23	Conference Organizer (with Michael Stoeltzner), International Conference on Integrated History and Philosophy of Science 9 (&HPS9), University of South Carolina, March 2023
2020–22	Mentor, Duygu Uygun Tunc, Philosophy of Science Association Underrepresented Philosophy of Science Scholars Initiative
2020–21	Member, Joint Commission of the International Union for History and Philosophy of Science and Technology
2020–21	Member, International Union for History and Philosophy of Science and Technology Essay Prize in History and Philosophy of Science Prize Committee
2011–13, 2019–21	Member, Advisory Board, Canadian Society for the History and Philosophy of Science
2011–	Referee, <i>Erkenntnis</i> , <i>British Journal for the Philosophy of Science</i> , <i>Philosophy of Science</i> , <i>Synthese</i> , <i>Studies in History and Philosophy of Science</i> , <i>International Studies in the Philosophy of Science</i> , <i>Philosophy of Science</i> , <i>Journal for General Philosophy of Science</i> , <i>Philosophy & Technology</i> , <i>Science & Education</i> , <i>Austrian Science Fund (FWF)</i>
Sept–Dec 2016	Member, Conference Program Committee, Scientific Knowledge Under Pluralism March 31st–April 2nd 2017, Center for Philosophy of Science, University of Pittsburgh
2008–09, 2011	Member, Executive Board, History and Philosophy of Science and Technology Student Society
2006	Copy Editor, <i>Spontaneous Generations: A Journal for the History & Philosophy of Science</i>

INSTITUTIONAL SERVICE

2024	Host (with Leah McClimans, Allison Marsh, and Suman Seth), The Ann Johnson Institute's Writing Retreat, STS in Public Practice, New Jersey, June 2024
2024	Local Expert, Ann Johnson Institute Book Manuscript Workshop, <i>Reclaiming the Self in Psychiatry: Centering Personal Narratives for a Humanist Science</i> by Serife Tekin
2022–	Placement Officer, Philosophy, University of South Carolina
2022–	Member, Faculty Advisory Committee for the Medical Humanities and Culture Minor, College of Arts and Sciences, University of South Carolina

2020–	Member, Graduate Committee, Philosophy, University of South Carolina
2023	Sample Lecture, “What Makes Science Scientific?”, Top Scholars Weekend, University of South Carolina Honors College
2023	Local Expert, Ann Johnson Institute Book Manuscript Workshop, <i>Inter-Knowledge: Trust, Information, and Belief in a Digital Age</i> by Isaac Record and Boaz Miller
2022	Local Expert, Ann Johnson Institute Book Manuscript Workshop, <i>In Defense of Medical Cases</i> by Rachel Ankeny
Aug–Dec 2021	Philosophy of Science Reading Group Convener, Philosophy, University of South Carolina
Aug–Dec 2020	Philosophy of Science Reading Group Convener (with Michael Stoeltzner), Philosophy, University of South Carolina
2017–20	Member, Teaching Committee, HPS, University of Cambridge
2017–20	HPS Departmental Seminar Organizer, University of Cambridge
2017–20	MPhil/Part III Ordinary Examiner, HPS, University of Cambridge
2017–20	Part II Ordinary Examiner, HPS, University of Cambridge
2018	Faculty of Philosophy Admissions, Clare College, University of Cambridge
Jan–Jun 2018	Philosophy and Ethics of Medicine Manager, HPS, University of Cambridge
Jan–Jun 2018	Paper 6 Manager, HPS, University of Cambridge

REFERENCES

John D. Norton, University of Pittsburgh jdnorton@pitt.edu	Hasok Chang, University of Cambridge hc372@cam.ac.uk
Edouard Machery, University of Pittsburgh machery@pitt.edu	Anna Alexandrova, University of Cambridge aa686@cam.ac.uk
Anjan Chakravartty, University of Miami chakravartty@miami.edu	Tim Lewens, University of Cambridge tml1000@cam.ac.uk
Denis Walsh, University of Toronto (teaching) denis.walsh@utoronto.ca	Joseph Berkovitz, University of Toronto (thesis advisor) joseph.berkovitz@utoronto.ca