

Matthew H. Slater

John Howard Harris Professor, Department of Philosophy, Bucknell University
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Education

Columbia University — Ph.D., Philosophy, 2006
Dissertation: “The Nature of Kinds”
Philip S. Kitcher and Achille C. Varzi, directors

Dartmouth College — A.B., Philosophy (highest honors), 2000

Areas of Specialization

Philosophy of Science, Metaphysics of Science, Philosophy of Biology, Social Epistemology,
Public Understanding of Science and Science Communication

Areas of Teaching Competence

Epistemology, Metaphysics, Logic, History of Science, Environmental Philosophy

Academic Appointments

John Howard Harris Professor of Philosophy, Bucknell University (2020–present)

Professor, Philosophy Department, Bucknell University (2018–present)

Associate Professor, Philosophy Department, Bucknell University (2013–2018)

Assistant Professor, Philosophy Department, Bucknell University (2009–2013)

Assistant Professor, Philosophy Department, University of Idaho (2006–2009)

Scholarship

Books

Published

Are Species Real?: An Essay on the Metaphysics of Species (2013)

Palgrave–Macmillan Publishers: *New Directions in the Philosophy of Science* Series.

Forthcoming

The Nature of Biological Kinds

Oxford University Press (forthcoming, 2023)

In Preparation

Norms of Classification, with Matthew J. Barker (Concordia University)

Co-authored “monograph”; in review process at Oxford University Press.

Should We Trust Science?

Monograph in progress.

Belief & Reality

Hybrid textbook/anthology for introductory Metaphysics and Epistemology courses.

Edited Volumes

Metaphysics and the Philosophy of Science: New Essays.

Oxford University Press, February 2017. Matthew H. Slater and Zanja Yudell (editors).

Reference and Referring

Vol. 10 of *Topics in Contemporary Philosophy* series. MIT Press, December 2012. William Kabasenche, Michael O'Rourke, and Matthew H. Slater (editors).

The Environment: Philosophy, Science, and Ethics

Vol. 9 of *Topics in Contemporary Philosophy* series. MIT Press, June 2012.
William Kabasenche, Michael O'Rourke, and Matthew H. Slater (editors).

The Architecture of Reality

Advisor Editor: *The Monist* 94:2 (April 2011 issue).

Carving Nature at its Joints: Natural Kinds in Science and Metaphysics

Vol. 8 of *Topics in Contemporary Philosophy* series. MIT Press, October 2011.
Joseph Keim Campbell, Michael O'Rourke, and Matthew H. Slater (editors).

Articles / Book Chapters

Accepted or Published (* = lead author when other than me; † = fully collaborative)

“Public Conceptions of Scientific Consensus” (forthcoming) *Erkenntnis*; with Joanna Huxster & Emily R. Scholfield (BU '22)

“Trust of Science as a Public Collective Good” (forthcoming) *Philosophy of Science*; with Emily R. Scholfield (BU '22)

“Extending the Ladder of Stances: Comments on Chakravartty’s *Scientific Ontology*” (2021) *Dialogue* 60(1): 33–42. DOI: 10.1017/S0012217320000323

“The Development and Validation of the Social Enterprise of Science Index (SESI): An Instrument to Measure Grasp of the Social-Institutional Aspects of Science” (2021) *SAGE Open* 11:2; with Joanna Huxster* & Asheley Landrum; DOI: 10.1177/21582440211016411

“Reporting on Science as an Ongoing Process (or Not)” (2021) *Frontiers in Communication* (part of the Theoretical and Practical Issues in the Epistemology of Science Journalism special issue); with Emily R. Scholfield (BU '22) and J. Conor Moore (BU '21); DOI: 10.3389/fcomm.2020.535474

“Open Questions in Scientific Consensus Messaging Research” (2020) *Environmental Communication* 14(8): 1033–1046; with Asheley Landrum*

“Denialism as Applied Skepticism” (2020) *Erkenntnis* 85: 871–890; with Joanna Huxster, Julia E. Bresticker (BU '17), and Victor LoPiccolo (BU '18); DOI: 10.1007/s10670-018-0054-0

“Understanding and Trusting Science” (2019) *Journal for General Philosophy of Science* 50 (2): 247–261; with Joanna Huxster and Julia E. Bresticker (BU '17)

- “Whither Convergence?: Comments on Ludwig’s ‘Revamping the Metaphysics of Ethnobiological Classification’” (2018) *Current Anthropology* 59(4): 430–431
- “A Pragmatic Approach to the Possibility of De-Extinction” (2018) *Biology & Philosophy* 33(4): 1–21, with Hayley Clatterbuck
- “Natural Kinds for the Scientific Realist” (2018) *The Routledge Handbook of Scientific Realism*. Juha Saatsi, Ed. Routledge Publishers, Taylor & Francis Group
- “Anchoring in Ecosystemic Kinds” (2018) *Synthese* 195(4): 1487–1508 (Special Issue on Causation in the Metaphysics of Science: Natural Kinds and Individuality)
- “Understanding ‘Understanding’ in *Public Understanding of Science*” (2017) *Public Understanding of Science* 27(7): 756–771; with Joanna Huxster*, Jason Leddington, Nate Aspinall (BU ’18), Jeffrey Bergman (BU ’18), Julia E. Bresticker (BU ’17), Nicolas Diaz (BU ’17), Melissa Hopkins (BU ’16), Mack Jones (BU ’17), Victor LoPiccolo (BU ’18), and Caroline McGlynn (BU ’18)
- “Attempts to Prime Intellectual Virtues for Understanding of Science: Failures to Inspire Intellectual Effort” (2017) *Philosophical Psychology* 30(8): 1141–1158; with Joanna Huxster*, Melissa Hopkins (BU ’16), Julia E. Bresticker (BU ’17), and Jason Leddington
- “Pluto and the Platypus: an Odd Ball and an Odd Duck — On Classificatory Norms” (2017) *Studies in the History and Philosophy of Science; Part A* 61: 1–10
- “Metaphysical Contention over the Ontological Status of Species” (2017) in *Metaphysics and the Philosophy of Science*. M.H. Slater & Z. Yudell (Eds.), New York: Oxford University Press, 2017
- “White Nose Syndrome and Bat Populations” (2016) *Institute for Laboratory Animal Research Journal* 56(3): 275–282; with DeeAnn Reeder* and Ken Field
- “Natural Kindness” (2015) *The British Journal for the Philosophy of Science* 66: 375–411.
Winner of the 2015 Karl Popper Prize: <thebsps.org/2015/12/2015-popper-prize-winner-matthew-h-slater/>
- “A Novel Exercise for Teaching the Philosophy of Science” (2014) in *Philosophy of Science* 81: 1184–1196; with Gary Hardcastle †
- “Cell Types as Natural Kinds” (2013) *Biological Theory* 7 (2): 170–179
- “Lessons from the Scientific Butchery,” (2011) Introductory essay for *Carving Nature at its Joints: Natural Kinds in Science and Metaphysics*. Joseph Keim Campbell, Michael O’Rourke, and Matthew H. Slater (eds.), MIT Press; with Andrea Borghini †
- “Introduction: Framing the Problems of Time and Identity” (2011) Introductory essay for *Time and Identity*, Joseph Keim Campbell, Michael O’Rourke, and Harry Silverstein (eds.), MIT Press
- “A Reflection on our Freedom” (2010) *Philosophia* 38(2): 327–330
- “Macromolecular Pluralism” (2009) *Philosophy of Science* 86: 851–863
- “Where No Mind Has Gone Before: Exploring Counterfactuals in Distant and Sparse Worlds” (2009) *International Studies in Philosophy of Science* 23(3): 265–276; with Chris Haufe †
- “How to Justify Teaching False Science” (2008) *Science Education* 92(3): 526–542

“Playing for the Same Team” (2007) *Basketball & Philosophy*, Basham and Walls (eds.), University of Kentucky Press; with Achille Varzi †

“Monism on the One Hand, Pluralism on the Other” (2005) *Philosophy of Science* 72(1): 22–40.

“The Necessity of Time Travel (on Pain of Indeterminacy)” (2005) *The Monist* 88(3): 362–369.

“A Contextualist Reply to the Direct Argument” (2005) *Philosophical Studies* 125: 115–137.

“Commitments about Coincidence” (2003) *Dialectica* 57(3): 323–329.

Under Review

“Consensus Messages about Mask Efficacy Do Not Increase COVID-19 Risk Perceptions or Policy Support (But an Infographic Does!)” with Joanna Huxster & Asheley Landrum*; under review at *Experimental Psychology*.

In Preparation / Draft

“Natural Kinds in Crisis?: Explaining our Present Circumstances and Defending the SPC Approach”

“Two Aspects of Scientific Creativity”

“Realism and Non-Factive Understanding”

“Elaboration and Central Processing of Consensus Messages,” with Asheley Landrum, Joanna Huxster, and Ch’ree Essary (Registered Report in development for *Nature Human Behavior*) †

“Resilient Understanding: The Value of Seeing for Oneself,” with Jason Leddington †

“Epistemic Weismannism: Transmitting vs. Reproducing Understanding”

“Discovering Subjunctives,” with Chris Haufe †

Peer-Reviewed Conference Papers / Posters

“Philosophical Challenges Facing Science Journalists,” with Chris Haufe†, to be presented at the 2022 Philosophy of Science Association Biennial Meeting (10th November 2022).

“Classificatory Norms in Scientific Practice: the Unobjective but Rational *Chemical Element*,” with Matthew Barker†, presented at the 2021 Philosophy of Science Association Biennial Meeting (13th November 2021).

“Trust of Science as a Public Collective Good,” with Emily R. Scholfield (BU ’22)†; presented at the 2020/21 Philosophy of Science Association Biennial Meeting (13th November 2021).

“Public Rationales on Mask Wearing for Preventing COVID-19 Spread” (poster), with Emily R. Scholfield (BU ’22)* and Joanna Huxster, presented at the American Association for the Advancement of Science Annual Meeting (February 2021).

“Realism and Understanding: The Challenge from Pluralism,” presented at the 2019 APA Central Division Meeting, Denver (20th February 2019).

“The Public’s Interpretation of Scientific Consensus,” with Joanna Huxster†, presented at the 2018 Philosophy of Science Association Biennial (2nd November 2018).

“Realism and Non-Factive Understanding,” presented at the University of Stockholm DIAPHORA

Workshop: The Nature of Representation (18th May 2017) and at the Third Metaphysics of Science Association Conference, Milan (6th October 2017).

“The Possibility of De-Extinction,” presented at the 2017 Pacific Division Meeting of the American Philosophical Association, Seattle (15th April 2017) and at the Classification in Biological Practice workshop at the Vrije Universiteit Amsterdam (21st April 2017).

“Understanding and Trusting Science,” with Joanna Huxster, presented at the 2016 Biennial Meeting of the Philosophy of Science Association (5th November 2016); at the 2017 Annual Meeting of the American Association for the Advancement of Science, Boston (18th February 2017).

“Naturalized Metaphysics and the Ontological Status of Species,” symposium paper delivered at the Central Division Meeting of the American Philosophical Association, Chicago (3rd March 2016).

“The Use and Abuse of Epistemic Success Terms in *Public Understanding of Science*,” (poster) with Jason Leddington, Joanna Huxster, Victor LoPiccolo (BU '18), Jeff Bergman (BU '17), and Mack Jones (BU '17), presented at the 2016 Annual Meeting of the American Association for the Advancement of Science (14th February 2016).†

“The Effect of Priming Intellectual Virtues on Individual Effort and Understanding,” (poster) with Jason Leddington, Joanna Huxster, Melissa Hopkins (BU '16), and Julia E. Bresticker (BU '17), presented at the 2016 Annual Meeting of the American Association for the Advancement of Science (14th February 2016).†

“Norms of Classificatory Practice,” with Matthew Barker†; presented at the Biennial Meeting of the International Society for the History, Philosophy, and Social Studies of Biology in Montreal, Canada (9th July 2015).

“Understanding, Knowledge, and Literacy in Climate Change Communication,” with Jason Leddington, Jeff Bergman (BU '17), Nicolas Diaz (BU '17), Rachel Greenburg (BU '15), Victor LoPiccolo (BU '18), and Caroline McGlynn (BU '18), delivered at the second annual meeting of the Consortium for Socially Relevant Philosophy of/in Science & Engineering, Detroit, MI (28th March 2015).†

“In Favor of the (Possible) Reality of Race,” delivered at the APA Pacific Meeting, San Diego (19th April 2014); also delivered at the Philosophy of Science Association Biennial Meeting (7th November 2014).

“Ecosystemic Kinds,” presented at the Philosophy of Biology at Madison (POBAM) Workshop (30th May 2014).

“Thinking Inside the Box: An Example of Project-Based Learning for Philosophy of Science Courses,” with Gary Hardcastle†, presented at the Biennial Meeting of the Philosophy of Science Association (November 2012).

“Hi, I’m a Fibroblast!,” presented in a session on Cellular Signaling at the International Society for the History, Philosophy, and Social Studies of Biology Biennial Meeting, Salt Lake City (14th July 2011).

“A Different Kind of Property Cluster Kind,” presented at the Biennial Meeting of the Philosophy of Science (5th November 2010).

“Referring to Species,” presented at the 13th Inland Northwest Philosophy Conference on “Reference and Referring,” Washington State University and the University of Idaho (1st May 2010).

“Metaphysics of Species for those Wary of Commitment,” presented at the Sydney-Tilburg Conference on “The Future of Philosophy of Science,” Tilburg University (15th April 2010).

- “Pluto and the Platypus: Tales of an Odd Ball and an Odd Duck,” colloquium paper presented at the 2009 APA Pacific Meeting (8th April 2009); Commentator: Nathan Robert Smith.
- “Macromolecular Pluralism,” presented at the Biennial Meeting of the Philosophy of Science Association (8th November 2008) and at the Eastern APA (30th December 2008); Commentator: William Goodwin.
- “Is Homeostasis Too Much to Ask of Natural Kinds?” colloquium paper presented at the APA Pacific Meeting (20th March 2008); Commentator: Chris Jenson.
- “Modes of Macromolecular Classification,” presented at the Northwest Philosophy Conference, University of Portland (5th October 2007) and accepted for the AHRC Conference on the Metaphysics of Science, England (12th October 2007; unable to attend).
- “An Explanation for Explanatory Utility of Species,” colloquium paper presented at the Northwest Philosophy Conference, University of Portland (5th November 2006).
- “Epistemicism Can’t Save the Individuality of Species,” colloquium paper presented at the 2006 APA Pacific Meeting (23rd March 2006); Winner of an Outstanding Graduate Student Paper Prize; Commentator: Christopher Stephens.
- “Stability of Extrinsic Dispositional Ascription,” colloquium paper presented at the APA Central Meeting (April 2005); Winner of an Outstanding Graduate Student Paper Prize; Commentator: Mahesh Ananth.
- “The Arbitrariness of Mereological Immoderation,” colloquium paper delivered at the APA Pacific Meeting (March 2005); Winner of an Outstanding Graduate Student Paper Prize; Commentator: Ted Sider.
- “Fundamental Physics and Parochial Explanations,” presented at the Northern New England Philosophy Association (October 2004).

Other Scholarly Activities

Invited Talks / Presentations / Commentaries

- “Natural Kinds in Crisis?” presented at the Case Western Reserve University Philosophy Department Philosophy Colloquium (14th September 2022).
- “Desiderata for Philosophical Approaches to Scientific Classification,” presented at the Rijeka Workshop in the Philosophy of Science: Enthusiasm for Natural Kinds (29th March 2021).
- “The Epistemic Worth of Relative Significance Controversies: Comments on Deaven,” presented at the APA Pacific (8th April 2021).
- “Scientific Consensus and the Public Trust of Science,” presented in the Philosophy Colloquium Series at Michigan State University (19th October 2018) and the University of New Mexico (26th October 2018).
- “Realism and Non-Factive Understanding,” presented in the SUNY Buffalo Philosophy Colloquium series (19th October 2017).
- “Tissues and Organ Types Across Species,” presented in the Konrad Lorenz Institute seminar series (4th May 2017).
- “Understanding and Trusting Science,” with Joanna Huxster, presented in the Pennsylvania State University’s College of Education Seminar Series (24th February 2017), in the Bucknell Humanities

Center Series (21st March 2017), in the Philosophy Colloquium Series at the University of Tampere, Finland (25th May 2017), and in the Humanities Center speaker series at Case Western Reserve University (20th September 2017).

- “Mining Biological Practice for Metaphysics,” Symposium Commentary on C. Kenneth Waters’ “How Science Can Inform Metaphysics: Insights from Biological Practice,” at the 2016 Pacific APA, San Francisco (31st March 2016).
- “Defanging Denialism by Seeing for Oneself,” with Jason Leddington, delivered at the Mid-Point Conference for the Varieties of Understanding Project, New York City (25th June 2015).
- “Anchored Ecological Categories,” delivered at The Metaphysics of Science: Causation and Natural Kinds Workshop, IHPST, Paris I (21st March 2014).
- “The Biodiversity Problem: Ethics, Science, and Policy,” delivered in the Bucknell Faculty Colloquium Series (18th March 2014).
- “Metaphysical Contention over the Ontological Status of Species,” delivered in the Lewis & Clark College’s Philosophy Department Colloquium Series (26th February 2014).
- “The Norm-Ladenness of Biological Classification,” delivered in an invited symposium on *The Influence of Norms and Values on Science* at the APA Pacific (30th March 2013).
- “Natural Kinds as Pragmatic vs. Ontological Categories,” delivered in an invited symposium organized by the Metaphysics of Science Association, APA Central Meeting (16th February 2012).
- “Deep and Superficial Similarity among Cellular Kinds,” Workshop on *Natural Kinds in Philosophy and in the Life Sciences: Scholastic Twilight or New Dawn?*, Granada Spain, (9th September 2011).
- “Prospects for a Structural Monism concerning Biochemical Kinds,” Work-in-Progress Talk in the Philosophy Department, University of Sydney (6th June 2011).
- “Stability and Homeostasis within Natural Kinds,” Philosophy Seminar Series, University of Sydney (1st June 2011).
- “Biological Parts and Wholes,” presented in the Philosophy Seminar Series, Australia National University (26th May 2011).
- “Comments on Trogdon’s ‘The Non-Transitivity of Metaphysical Explanation’,” at the 2011 APA Pacific Meeting (22nd April 2011).
- “Biological Kinds and the Polymorphism Problem,” presented in the Philosophy Seminar Series at the University of Utah (18th April 2011).
- “Natural Kinds, Norms, and Extrinsic Properties,” to be presented in a symposium on “Neo-Non-Reductivism,” APA Eastern Meeting (27th December 2010; could not present due to weather-related travel problems).
- “The Metaphysics of Stability,” presented in the Philosophy and History of Science Seminar Series, University of Bristol (17th November 2010).
- “Comments on Devitt’s ‘Natural Kinds and Biological Realisms’,” offered at the 11th Annual Inland Northwest Philosophy Conference (17th March 2008).
- “The Concept of a Natural Law,” colloquium talk delivered to the Physics Department, University of

Idaho (3rd December 2007).

“Realism About Biological Taxa,” colloquium talk delivered to the Philosophy Department at Witwatersrand University, Johannesburg, South Africa (11th July 2007).

“Pluto and the Platypus,” colloquium talk delivered to the Philosophy Department at Washington State University (17th November 2006).

“Comments on Campbell’s ‘Free Will and the Necessity of the Past,’” commentary offered at the Northwest Philosophy Conference, University of Portland (5th November 2006).

“Why the Long Face? Natural Kinds Without (Many) Tears,” colloquium talk for the Duke University Philosophy of Biology Reading Group (4th October 2006); Philosophy Department of Dartmouth College (30th June 2006).

“The Metaphysics of Species and Specious Metaphysics,” colloquium talk for the Department of Philosophy, University of Idaho (24th February 2006); Department of Philosophy, College of William & Mary (8th February 2006).

“Back to the Open Future: Two Paradoxes of Time Travel,” colloquium talk for the Department of Philosophy, University of Minnesota at Duluth (3rd February 2006); Department of Philosophy, Middlebury College (30th January 2006); Department of Philosophy, Dickinson College (26th January 2006); Department of Philosophy, Franklin & Marshall College (23rd January 2006).

Book Reviews

Muhammad Ali Khalidi: *Natural Categories and Human Kinds* (2015) *British Journal for the Philosophy of Science* 66 (4):1017–1023.

P.D. Magnus: *Scientific Inquiry and Natural Kinds* (2013) *Notre Dame Philosophical Reviews* 2013.06.28
<<http://ndpr.nd.edu/news/40779-scientific-enquiry-and-natural-kinds-from-planets-to-mallards/>>

“Recent Texts in Metaphysics” (2009) *Teaching Philosophy* 32(3): 285–296.

Encyclopedia Articles

“Natural Kinds,” invited survey article for the online *Canadian Eugenics Archive*.
<http://eugenicsarchive.ca/discover/encyclopedia>.

Grants and Fellowships (listing funded and unfunded applications)

Total post-doctoral funding: \$655,200 (omitting travel awards).

Dalal Innovation and Creativity Grant for Student-Faculty Collaboration (2019): “Vaccine Hesitancy Among Young Adults”. Funded: \$6,000.

Bucknell Humanities Center, Summer Teaching Lab (2018): “Science in the Public Eye”. Funded: \$17,000.

The National Academies of Science (2017): “Understanding the Social Structure of Science and Trusting Consensus Climate Science,” with Joanna Huxster and Michael E. Mann (\$37,500).
Not funded.

National Science Foundation, Scholar’s Award (2017): “What Ought the Public Understand about Science?” Funded: \$210,088 for AY2018–20.

The Konrad Lorenz Institute for Theoretical Biology, Vienna, Austria (2017): Month-long Research

- Fellowship to work on *The Nature of Biological Kinds*. Funded: accommodations & office space.
- Templeton Foundation (2017): “Building Epistemic Humility,” with Ashley R. Landrum (\$225,964). *Not funded*.
- The Forney Foundation (2016 and 2018): “Understanding and Trusting Science”
Funded: \$50,000 in support of ongoing Production of Public Understanding of Science research activities.
- The Templeton Foundation (2016) “Making Climate Change Meaningful,” with Joanna Huxster, Michael E. Mann, Aaron McCright, and Nancy Tuana (\$2,112,550). *Not funded*.
- National Science Foundation, Standard Research Grant (2016): “Climate Literacy, Trust, and Epistemic Resilience,” with Joanna Huxster (\$363,745). *Not funded*.
- The Templeton Foundation (2015): “Epistemic Exceptionality,” with Joanna Huxster (\$100,000). *Not funded*.
- President’s Fund at Bucknell: “The Production of Public Understanding of Science,” with Jason Leddington (2015–2018): Support for a postdoctoral research fellow, travel, and student research assistance. **Funded:** \$77,500 for 2015–2018.
- National Science Foundation, for a postdoctoral fellow to assist with the Production of Public Understanding Project, with Jason Leddington (\$177,360). *Not funded*.
- The Templeton Foundation (Varieties of Understanding Project): “The Production of Public Understanding,” with Jason Leddington (AY2014–15).
Funded: \$100,000 (one of eight funded nationally).
- David Scadden Research Fellowship: “Confusion Regarding ‘Biodiversity,’” October 2011.
Funded: \$5,000 (one of two at Bucknell in AY2011–12).
- College Core Curriculum Course Development Grant for an Environmentally-Focused Integrated Perspectives Course: “The Science and Ethics of Climate Change” (with Duane Griffin, Geography), March 2012. **Funded:** \$8,000 (total).
- National Science Foundation Scholar’s Award: “Case Studies for a General Account of Biological Classification” (SES-0924376), February 2009.
Funded: \$178,900 in leave and research support for AY2010–11.
- University of Idaho Seed Grant: “Scientific Creativity and Understanding,” February 2009.
Funded: \$10,000; declined in order to take a position at Bucknell University.
- EPSCoR Proposal Enhancement Release Time (PERT) Grant, August 2008.
Funded: \$5,000 for a course release during which to pursue an NSF Grant.
- Kurt Olsson Grant: “The Significance of ‘Pure’ Research,” March 2008.
Funded: \$10,000 for research support in AY2008–09.
- Idaho Humanities Council Project Grant, March 2008.
Funded: \$2,000 to support Inland Northwest Philosophy Conference Public Forum: “Why Does Carving Nature Matter”.

Graduate/honors/other Projects or Theses Advised

Faculty Mentor for Eric Martin (Biology, BU '13) "Diverse Uses of the Term 'Biodiversity'" funded by the Bucknell Program for Undergraduate Research; Summer 2012.

Honors Thesis Advisor for Rachel Moger-Reischer (Philosophy/Mathematics Major, BU '12) "Knowledge in Context"; AY2011–12.

Outside Advisor for Brian D. Crist (University of Idaho Masters Student) "The Role of Interests in Special Science Laws: A Case Study" AY2008–2009 and AY2009–2010.

Lead Advisor for Brandon Holter (University of Idaho Masters Student) "The Ontology of Species: A Radically Pluralistic Perspective" AY2007–2008 and AY2008–2009.

Teaching

At Bucknell (last six years)

AY2022–23

PHIL 103: Logic (both semesters)

UNIV 200: The Anthropocene (Spring 2023)

Integrated Perspectives Course co-taught with professors from departments of Geology and History.

RESC 220/221: Discovery Dinner Seminar (both semesters)

AY2021–22

PHIL 272: Philosophy of Biology (Fall 2021)

PHIL 103: Logic (Spring 2022)

RESC 220/221: Discovery Dinner Seminar (both semesters)

AY2020–21

PHIL 100: Belief & Reality (Fall 2020)

UNIV 200: The Anthropocene (Fall 2020, Spring 2021)

Integrated Perspectives Course co-taught with professors from departments of Geology, History, and Religious Studies.

PHIL 201: Symbolic Logic (Spring 2021)

PHIL 220: Philosophy of Science (Spring 2021)

RESC 220/221: Discovery Dinner Seminar (both semesters)

AY2019–20

PHIL 100: Belief & Reality (two sections, Fall 2019)

PHIL 100: Philosophy in Film (Summer 2020)

PHIL 311: Socializing Epistemology (Spring 2020)

RESC 220/221: Discovery Dinner Seminar (both semesters)

AY2018–19: reduced teaching due to NSF Scholars' Award

PHIL 268: Science in the Public Eye (Fall 2018)

RESC 220/221: Discovery Dinner Seminar (both semesters)

AY2017–18

PHIL 103: Logic (two sections, Fall 2017)
PHIL 100: Belief & Reality (Fall 2017)
PHIL 201: Symbolic Logic (Spring 2018)
PHIL 214: Epistemology (Spring 2018)

Previously

RESC 098: Revolutions in Science (Fall 2013, Fall 2014)
RESC 220/221: Discovery Dinner Seminar (Academic Years, 2016–17–current)
PHIL 100: Belief & Reality (Spring 2014, Spring 2016)
PHIL 100: Philosophy and Film (Fall 2012)
PHIL 103: Logic (Fall 2009, Spring 2010, Spring 2012)
PHIL 218: Ecology, Nature, & the Future (Spring 2010)
PHIL 220: Philosophy of Science (Fall 2009, Fall 2011, Fall 2012, Fall 2014)
UNIV 200: Climate Change: Science and Ethics (Spring 2013, Spring 2015, Fall 2015)
Integrated Perspectives Course with Duane Griffin from Geography Department.
PHIL 222: Analytic Philosophy: Paradoxes (Spring 2010, Fall 2011, Fall 2013)
PHIL 272: Philosophy of Biology (Spring 2013, Spring 2014, Spring 2016)
PHIL 311: Advanced Seminar: Ignorance and Understanding (Fall 2015)
PHIL 311: Advanced Seminar: Doubt, Dogmatism, & Disagreement (Spring 2012)

At the University of Idaho

CORE 124: Core Discovery: Revolutions in Scientific Understanding (AY2007–08)
PHIL 202: Symbolic Logic (Spring 2008)
PHIL 221: Philosophy in Film (Summer 2007, Summer 2008)
PHIL 240: Belief & Reality (Fall 2006, Spring 2008)
PHIL 320: History of Ancient and Medieval Philosophy (Fall 2006)
PHIL 351: Introduction to the Philosophy of Science (Fall 2007, Fall 2008)
PHIL 417/517: Philosophy of Biology (Spring 2008, Spring 2009)
PHIL 450: Ethics in Science (Spring 2009)
PHIL 490: Senior Seminar: Natural Laws and Natural Kinds (Spring 2007)
PHIL 504: Special Topics in the Philosophy of Biology (Spring 2007)

At Columbia University (sole-instructor only; TAing responsibilities omitted)

Contemporary Civilizations I & II (AY2003–4 & 2004–5)
Epistemology (Summer 2004)
Elementary Logic (Summer 2003)

Service to the University and to the Profession

University Level Service

Department Chair, Philosophy: Summer 2019–present.
Chair, Bucknell Institutional Review Board: Summer 2013–present.
Elected Member, Faculty Hearing Committee: Fall 2017– Fall 2020.

Appointed Member, The President's Sustainability Council: 2016–2019.

External Search Committee Member: Biology Department, AY2017–18.

Member, Residential College Steering Committee: AY2017–18.

Member, Bucknell Humanities Council: AY2017–18.

Chair, Committee on Athletics: AY 2014–15; elected committee member 2012–15.

Teaching and Learning Center Faculty Fellow for Blended Learning: AY 2013–14.

Elected member of the Committee on Library and Information Resources: Fall 2013–Spring 2016.

Co-Founder and Advisory Group Member of the Discovery Residential College: Fall 2012–present.

Humanities Representative for the Bucknell Institutional Review Board: Fall 2011–Spring 2013.

Organizer of a Faculty–Student Reading Group on “Confusion Regarding ‘Biodiversity’,” funded by a David Scadden Research Fellowship, Spring 2012.

External Search Committee Member: Open-Rank Position in Biology/Animal Behavior, Fall 2012.

Department Level Service

Library Representative: Fall 2011–Spring 2019.

Assessment Liaison: Fall 2011–present;

Worked on formulating a departmental assessment strategy and conducted data analysis.

Assisted with major curriculum redesign, outreach (Lunch Chats, Department Blog, Campus Theatre Association, Majors/Admissions Fairs), hiring, and other general duties.

Extramural Service

Referee for: *The Australasian Journal of Philosophy*; *Biological Theory*; *Biology & Philosophy*; The Belgian Research Foundation; *The British Journal for the Philosophy of Science*; *The Canadian Journal of Philosophy*; The Canadian Philosophical Association; Continuum Publishers; *Current Anthropology*; *Dialogue*; *Ergo*; *Erkenntnis*; *Ethics, Policy & Environment*, *Environmental Ethics*; *The European Journal for the Philosophy of Science*; *Foundations of Science*; The Israel Science Foundation; *The Journal for General Philosophy of Science*; *The Journal of Philosophy*; Minnesota University Press; The MIT Press; *The Monist*; The U.S. National Science Foundation; *Nature Genetics*; Oxford University Press; Pickering and Chatto Publishers; *Philosophical Quarterly*; *Philosophical Psychology*; *Philosophy of Science*; *Philosophical Studies*; *Public Understanding of Science*; Routledge Publishers; *Science Education*; *Science, Technology, and Human Values*; the Social Sciences and Humanities Research Council of Canada; *Studies in the History and Philosophy of Science*; the Swiss National Science Foundation; *Synthese*; Wadsworth Publishing.

Symposium Organizer (with Chris Haufe and Vanessa Schipani) at the 2022 Philosophy of Science Association Biennial Meeting: “The Philosophy of Science Journalism” *Participants*: Mikkel Gerken (University of Southern Denmark), Chris Haufe (Case Western Reserve University), Vanessa Schipani (University of Pennsylvania), Matthew H. Slater (Bucknell University), and a panel of practicing science journalists.

Symposium Organizer (with Chris Haufe) at the 2020/21 Philosophy of Science Association Biennial Meeting: “Why Trust Science?” *Participants*: Heidi Grasswick (Middlebury College), Chris Haufe (Case Western Reserve University), Naomi Oreskes (Harvard University), and Emily Scholfield and Matthew

H. Slater (Bucknell University).

Symposium Organizer (with Heather Akin, Department of Strategic Communication, University of Missouri) at the American Association of the Advancement of Science 2018 Annual Meeting, “Understanding and Responding to Climate Change Denial;” *Participants*: Joanna Huxster (Environmental Studies, Eckerd College) and Matthew H. Slater (Bucknell University), Asheley Landrum (Communications, Texas Tech University), Michael E. Mann (Atmospheric Sciences, Penn State University), Aaron McCright (Psychology, Michigan State University).

Symposium Organizer (with Deena Skolnick Weisberg, University of Pennsylvania) at the American Association of the Advancement of Science 2017 Annual Meeting, “Public Attitudes about Polarized Science: Evolution, Climate Change, Zika, and GMOs;” *Participants*: Joanna Huxster and Matthew H. Slater (Bucknell University), Asheley Landrum (Annenberg School for Public Policy), Michael Weisberg (University of Pennsylvania).

Symposium Organizer (with Chris Haufe) at the 2016 Philosophy of Science Association Biennial Meeting: “The Public Understanding of Science: Theoretical and Empirical Approaches;” *Participants*: Chris Haufe (Case Western Reserve University), Arnon Keren (University of Haifa), Boaz Miller (Bar Ilan), Joanna Huxster, Matthew H. Slater (Bucknell University), Deena Skolnick Weisberg, S. Emlen Metz, and Michael Weisberg (University of Pennsylvania).

Symposium Organizer (with Gary Hardcastle) at the 2012 Philosophy of Science Association Biennial Meeting: “Innovative Strategies for Teaching the Philosophy of Science;” *Participants*: Hasok Chang (Cambridge University), Chris Haufe (Case Western Reserve University), Matthew H. Slater (Bucknell University), Gary Hardcastle (Bloomsburg University).

Co-Director (with Zanja Yudell and Chris Haufe) of the Toronto–University of Chicago Conference on Metaphysics in the Philosophy of Science (MPSC2011), 13–15 May 2011.

Founder of the University of Idaho Lectures in the History and Philosophy of Science; Member of HPS Advisory Panel with James Foster (Biology), Jerine Pegg (Education), Matthew Rudd (Mathematics), Gary Williams (English), Spring 2007–Spring 2009.

Co-Director (with Michael O’Rourke) of the 12th Annual Inland Northwest Philosophy Conference: The Environment, April 2009.

Co-Director (with Joseph Campbell) of the 11th Annual Inland Northwest Philosophy Conference: Carving Nature at its Joints, March 2008.

Symposium Organizer (with Chris Haufe) at the 2008 Philosophy of Science Association Biennial Meeting: “Is Evolutionary Theory a Theory of Forces?” *Participants*: Robert Brandon, Chris Stephens, Denis Walsh; John Beatty (Chair).

Conference Organizer and Webmaster: Inaugural Columbia Grad Conference in Philosophy (2001).

Professional Memberships

The Council on Undergraduate Research (CUR.org)

The International Society for the History, Philosophy, and Social Studies of Biology (ishpssb.org)

The Philosophy of Science Association (philsci.org)

The American Association for the Advancement of Science (AAAS.org)

The American Philosophical Association (apaonline.org)