

CHARLES H. PENCE

Université catholique de Louvain
Institut supérieur de philosophie
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APPOINTMENTS

- **Université catholique de Louvain** 2018–present
Directeur, Centre de philosophie des sciences et sociétés (CEFISES)
- **Université catholique de Louvain** 2018–present
*Chargé de cours, Institut supérieur de philosophie et
Faculté de philosophie, arts et lettres*
- **Louisiana State University** 2018–2019
Assistant Professor — Research (for NSF grant)
- **Louisiana State University** 2017–2018
Director, LSU Ethics Institute
- **Louisiana State University** 2014–2018
Assistant Professor, Department of Philosophy and Religious Studies

EDUCATION

- **University of Notre Dame** 2007–2014
Ph.D. in History and Philosophy of Science
M.A. in Philosophy
 - Dissertation: *Chance in Evolutionary Theory: Fitness, Selection, and Genetic Drift in Philosophical and Historical Perspective*
 - Advisor: Grant Ramsey
 - Committee: Anjan Chakravartty (Philosophy), Phillip Sloan (Program in Liberal Studies), Fritz Warfield (Philosophy)
- **National Evolutionary Synthesis Center** 2013
Pre-Doctoral Visiting Fellow
 - For work on the evoText project, fall semester
- **Princeton University** 2003–2007
A.B. in Philosophy, cum laude
 - Senior Thesis: *Spacetime and Natural Law* (award received)
 - Advisor: Adam Elga

RESEARCH AND TEACHING INTERESTS

- **Areas of Specialization**
 - Philosophy and history of biology
 - General philosophy of science

- Digital humanities (esp. text mining, textual analysis)
- **Areas of Competence**
 - Philosophy of physics
 - Metaphysics
 - Epistemology
 - Ethics of emerging weapons technologies
- **Areas of Special Teaching Interest**
 - Medical / Bio-ethics
 - Logic / Philosophy of mathematics

BOOKS AND EDITED COLLECTIONS

- Pence, C.H. Under contract. *Causes and Probability in Evolution [working title]*. Cambridge: Cambridge University Press.
- Ramsey, G. and Pence, C.H., editors. 2016. *Chance in Evolution*. Chicago: University of Chicago Press. DOI: 10.7208/chicago/9780226401911.001.0001.

ARTICLES AND BOOK CHAPTERS

- Pence, C.H. “How Not to Fight About Theory: The Debate Between Biometry and Mendelism in *Nature*, 1890–1915.” Forthcoming (under contract) in Ramsey, G. and De Block, A., eds., *The Dynamics of Science: Computational Frontiers in History and Philosophy of Science*. Pittsburgh: University of Pittsburgh Press.
- Pence, C.H. and Ramsey, G. “How to Do Digital Philosophy of Science.” Forthcoming in *Philosophy of Science*.
- Pence, C.H. 2018. “Sir John F.W. Herschel and Charles Darwin: Nineteenth-Century Science and its Methodology.” *HOPOS: The Journal of the International Society for the History of Philosophy of Science* 8(1):108–140. DOI: 10.1086/695719.
- Pence, C.H. and Swaim, D.G. 2018. “The Economy of Nature: The Structure of Evolution in Linnaeus, Darwin, and the Modern Synthesis.” *European Journal for Philosophy of Science* 8(3):435–454. DOI: 10.1007/s13194-017-0194-0.
- Pence, C.H. 2017. “Is Genetic Drift a Force?” *Synthese* 194(6):1967–1988. DOI: 10.1007/s11229-016-1031-2.
- Mendelson, T.C., Fitzpatrick, C.L., Hauber, M.E., Pence, C.H., Rodriguez, R.L., Safran, R.J., Stern, C.A., and Stevens, J.R. 2016. “Cognitive Phenotypes and the Evolution of Animal Decisions.” *Trends in Ecology and Evolution* 31(11):850–859. DOI: 10.1016/j.tree.2016.08.008.
- Ramsey, G. and Pence, C.H. 2016. “Chance in Evolution from Darwin to Contemporary Biology.” In Ramsey, G. and Pence, C.H., eds., *Chance in Evolution*, pp. 1–11. Chicago: University of Chicago Press. DOI: 10.7208/chicago/9780226401911.003.0001.
- Ramsey, G. and Pence, C.H. 2016. “evoText: A New Tool for Analyzing the Biological Sciences.” *Studies in History and Philosophy of Biological and Biomedical Sciences* 57:83–87. DOI: 10.1016/j.shpsc.2016.04.003.
- Pence, C.H. 2016. “RLetters: A Web-Based Application for Text Analysis of Journal Articles.” *PLoS ONE*. DOI: 10.1371/journal.pone.0146004.
- Pence, C.H. and Ramsey, G. 2015. “Is Organismic Fitness at the Basis of Evolutionary Theory?” *Philosophy of Science* 82(5):1081–1091. DOI: 10.1086/683442.
- Pence, C.H. 2015. “The Early History of Chance in Evolution.” *Studies in History and Philosophy of Science*

- 50:48–58. DOI: 10.1016/j.shpsa.2014.09.006.
- Pence, C.H. 2015. “Military Genomic Testing: Proportionality, Expected Benefits, and the Connection between Genotypes and Phenotypes.” *Journal of Law and the Biosciences* 2(1):85–91. DOI: 10.1093/jlb/lso035.
 - Pence, C.H. and Ramsey, G. 2013. “A New Foundation for the Propensity Interpretation of Fitness.” *British Journal for the Philosophy of Science* 64(4):851–881. DOI: 10.1093/bjps/axso37. (Awarded the 2013 Sir Karl Popper Prize from the British Society for the Philosophy of Science, and *Editor’s Choice* for *BJPS* vol. 64, no. 4.)
 - Ramsey, G. and Pence, C.H. 2013. “Fitness: Philosophical Problems.” *eLS*. Chichester: John Wiley and Sons. DOI: 10.1002/9780470015902.a0003443.pub2.
 - Pence, C.H. and Buchak, L. 2012. “Oyun: A New, Free Program for Iterated Prisoner’s Dilemma Tournaments in the Classroom.” *Evolution: Education and Outreach* 5(3):467–476. DOI: 10.1007/s12052-012-0434-x.
 - Philip, J.T., Pence, C.H., and Goodson, H.V. 2012. “MTBindingSim: Simulate Protein Binding to Microtubules.” *Bioinformatics* 28(3):441–443. DOI: 10.1093/bioinformatics/btr684.
 - Pence, C.H. 2011. “‘Describing our Whole Experience’: The Statistical Philosophies of W.F.R. Weldon and Karl Pearson.” *Studies in History and Philosophy of Biological and Biomedical Sciences* 42(4):475–485. DOI: 10.1016/j.shpsc.2011.07.011.
 - Pence, C.H. 2011. “Nietzsche’s Aesthetic Critique of Darwin.” *History and Philosophy of the Life Sciences* 33(2):165–190.

BOOK REVIEWS

- Pence, C.H. 2018. “[Review of] *Origins of Darwin’s Evolution: Solving the Species Puzzle Through Time and Place*.” *The Quarterly Review of Biology* 93(2):128–129. DOI: 10.1086/698027.
- Pence, C.H. 2017. “[Review of] Robert J. Richards and Michael Ruse, *Debating Darwin*.” *HOPOS: The Journal of the International Society for the History of Philosophy of Science* 7(2):397–400. DOI: 10.1086/693430.
- Pence, C.H. 2015. “The Many Chances of Charles Darwin. [Essay Review.]” *Studies in History and Philosophy of Biological and Biomedical Sciences* 53:107–110. DOI: 10.1016/j.shpsc.2015.07.008.
- Pence, C.H. 2015. “[Review of] *Darwin’s Dice: The Idea of Chance in the Thought of Charles Darwin*.” *Reports of the National Center for Science Education* 35(6):11.
- Pence, C.H. 2014. “Busting Myths about ‘Species’ [Review of *Species: A History of the Idea*, by John Wilkins].” *Evolution: Education and Outreach* 7:21. DOI: 10.1186/s12052-014-0021-4.
- Pence, C.H. 2013. “[Review of] Staffan Müller-Wille and Hans-Jörg Rheinberger, *A Cultural History of Heredity*.” *HOPOS: The Journal of the International Society for the History of Philosophy of Science* 3(1):168–172. DOI: 10.1086/668913.
- Hollocher, H., Pence, C.H., Ramsey, G., and Wirth, M.M. 2013. “A Path to Success? A Review of *Evolution, Development, and the Predictable Genome* by David L. Stern.” *Evolution and Development* 15(1):80–82. DOI: 10.1111/ede.12016.
- Pence, C.H., Hollocher, H., Nichols, R., Ramsey, G., Siu, E., and Sportiello, D.J. 2011. “[Review of] Elliott Sober: *Did Darwin Write the Origin Backwards? Philosophical Essays on Darwin’s Theory*.” *Philosophy of Science* 78(4):705–709. DOI: 10.1086/661775.
- Hollocher, H., Fuentes, A., Pence, C.H., Ramsey, G., Sportiello, D.J., and Wirth, M.M. 2011. “[Review of] *On the Origin of Stories: Evolution, Cognition, and Fiction*.” *The Quarterly Review of Biology* 86(2):137–138. DOI: 10.1086/659913.

- Ramsey, G., Hollocher, H., Fuentes, A., Pence, C.H., and Siu, E. 2010. “[Review of] Darwinian Populations and Natural Selection.” *The Quarterly Review of Biology* 85(4):499–500. DOI: 10.1086/656856.

UNDER REVIEW AND IN PREPARATION

- Pence, C.H. “Causation and Metaphysics in Evolutionary Biology.” Under review.
- Pence, C.H. “What Role for ‘Fitness?’” Under review.
- Pence, C.H. “Locating Uncertainty in Stochastic Evolutionary Models: Divergence Time Estimation.” Under review.
- Radick, G., Jamieson, A., and Pence, C.H. *W.F.R. Weldon’s Theory of Inheritance*. (Scholarly edition of unfinished manuscript with extensive editorial apparatus.) In preparation.
- Pence, C.H. and Hicks, D.J. “Dual-Use Technology Development and the Idea(l) of the ‘Scientific Community:’ Two Unappreciated Problems.” In preparation.
- Pence, C.H. “Process and Product Concepts of Natural Selection and Genetic Drift.” In preparation.

AWARDS AND HONORS

- LSU Tiger Athletic Foundation Undergraduate Teaching Award 2015–2016
- Most-Read Paper, July 2014, *British Journal for the Philosophy of Science*, “A New Foundation for the Propensity Interpretation of Fitness” 2014
- 2013 Sir Karl Popper Prize, British Society for the Philosophy of Science, for “A New Foundation for the Propensity Interpretation of Fitness” 2013
- Editor’s Choice article, *British Journal for the Philosophy of Science*, vol. 64, no. 4, for “A New Foundation for the Propensity Interpretation of Fitness” 2013
- Phillip R. Sloan Prize, Notre Dame Program in History and Philosophy of Science 2012
- Lilly Presidential Graduate Fellowship, Graduate School, University of Notre Dame 2007–2012
- Second Place – Humanities, Notre Dame Graduate Research Symposium 2012
- Best Presentation – Forum Topic: Reimagining School, Notre Dame Graduate Research Symposium 2012
- Striving for Excellence in Teaching Certification, Notre Dame Kaneb Center for Teaching & Learning 2012
- J. Walker Tomb Senior Thesis Prize, Philosophy Department, Princeton University 2007

GRANTS

- “The Development of Chance and Statistics in Evolutionary Biology,” US National Science Foundation HPS Scholars’ Award Grant #1826784 2018–2019
- Manship Summer Research Fellowship, LSU College of Humanities and Social Sciences (for W.F.R. Weldon archival work) 2017
- Three LSU Office of Research and Economic Development Faculty Travel Grants 2014–2017
- Three LSU College of Humanities and Social Sciences Faculty International Travel Grants 2014–2017
- Consultant to “Safeguarding Cyberspace with Ethical Rules for Cyberwarfare” Grant (US National Science Foundation Collaborative Project Grant #1318126, #1317798, and #1318270; Cal Poly, Naval Postgraduate School, and Western Michigan University) 2016

- “The evoText Project,” US National Science Foundation HPS Scholars’ Award Grant #1456573 2015–2016
- Manship Summer Research Fellowship, LSU College of Humanities and Social Sciences (for evoText) 2015
- National Evolutionary Synthesis Center, Short-Term Visitorship 2013
- Six Conference-Funded Travel Grants (ISHPSSB, APA, PSA, HOPOS, DHSI) 2009–2013
- Five Notre Dame Conference Presentation Grants 2008–2013
- Exploratory Seminars Grant: Digital Humanities Working Group 2011–2012
- Notre Dame Notebaert Professional Development Grant (DHSI) 2012
- Notre Dame Downes Travel Grant (MBL-ASU Seminar) 2009

MEDIA COVERAGE

- Interviewed by local ABC affiliate, KTRE, for Darwin Day lecture 2017
- Interviewed on the ethics of technology: “The Bright Ages,” *Legacy Magazine*, fall issue 2015
- On teaching Ethics of New Weapons Technologies (at LSU): “New Course Challenges Ethics of War Weapon Technology,” *LSU Reveille*, November 12 2014
- On the evoText project: “‘Big Data’ Revolutionizes Research on Evolution,” *NDWorks*, October 2014
- On teaching Ethics of Emerging Weapons Technologies (at ND): “A General in the Classroom Takes On the Ethics of War,” *The New York Times*, February 8 2014
- On teaching Ethics of Emerging Weapons Technologies (at ND): “Fighting for the Ethical Use of Technology,” University of Notre Dame advertisement, NBC (national television broadcast) 2013
- On my talk at the American Philosophical Association Eastern Division Meeting, “The Philosophy of Genetic Drift,” *Philosophy and Theory in Biology* blog 2012

INVITED TALKS AND COLLOQUIUM PRESENTATIONS

- Dual-Use Research and the “Scientific Community” April, 2019
Delft University of Technology
- *title to be determined* March, 2019
PhillyBioMed, Université de Bordeaux
- *title to be determined* March, 2019
Louvain Institute of Biomolecular Science and Technology (LIBST) and Earth and Life Institute-Biodiversity (ELI-B) Seminar, Université catholique de Louvain
- Causation and Metaphysics in Evolutionary Biology December, 2018
KU Leuven Center for Logic and Philosophy of Science Seminar
- ‘Like Somebody Who Has Seen Thousands of Trees but Has Never Seen a Forest’: The Critical Role of History and Philosophy of Science in Science Education November, 2018
History of Science Society Meeting — HSS 2018
- The Development of Darwin’s Views of Chance October, 2018
Center for Science Studies, Aarhus University
- Darwin on Mind, Ethics, and Animals September, 2018
CEFISES Seminar, Groupe de recherche interdisciplinaire sur la crise écologique, Université catholique de Louvain

- Archives to Networks and Back Again (keynote) November, 2017
History of Science Society, THATCampHSS
- Syntheses that Weren't: W.F.R. Weldon's Abandoned "Synthesis" of Biometry and Mendelism July, 2017
International Society for the History, Philosophy, and Social Studies of Biology Meeting
- Theories Under Stress: Evolution in the Late Nineteenth Century May, 2017
University of Leeds HPS Centre Seminar
- Theories Under Stress: Evolution in the Late Nineteenth Century May, 2017
University College London
- Evolution and Chance: From Darwin to the Pioneers of Statistics in Biology February, 2017
Darwin Day, Stephen F. Austin State University
- Fitness and Prediction in Evolutionary Theory January, 2017
London School of Economics
- Theories Under Stress: Evolution in the Late Nineteenth Century (keynote) October, 2016
The Science of Evolution and the Evolution of the Sciences Conference
- The Economy of Nature and the Structure of Evolution October, 2016
KU Leuven Center for Logic and Analytic Philosophy (CLAW) Seminar
- Introduction to Text Mining February, 2016
LSU Digital Scholarship Lab
- Adaptive Dynamics, Chaos, Chance, and Fitness November, 2015
Mississippi State University Philosophy Colloquium
- Quantitative Textual Analysis and Philosophy: Hypothesis-Testing and Data-Mining Philosophical Ideas April, 2015
American Philosophical Association Pacific Division Meeting
- Commentator: Ethics of Emerging Weapons Technologies March, 2015
Reilly Center 30th Anniversary Celebration
- Is Organismic Fitness at the Basis of Evolutionary Theory? October, 2014
LSU Philosophy Salon
- Background Briefing: Attribution & Repression in Cyberwarfare May, 2014
International Committee of the Red Cross
- Ethics of Emerging Weapons Technologies: A Pedagogical Approach May, 2014
Fondation Brocher
- Coming to Terms with Chance in Evolutionary Theory February, 2014
Louisiana State University

CONFERENCE PRESENTATIONS

- Chance, Statistics, and Experiment in Early Evolutionary Biology July, 2018
History of the Philosophy of Science — HOPOS 2018
- Darwin and Evolution: Using Historical Critiques and Responses to Address Student Misunderstandings November, 2017
National Science Teachers Association Conference on Science Education
- C'mon, Neil! Why Good Philosophy of Science is Part of Good Science Teaching and Science November, 2017
National Science Teachers Association Conference on Science Education
- evoText and the Philosophy of Science November, 2016
Philosophy of Science Association Meeting
- The Economy of Nature: Structure in Biology from Linnaeus, to Darwin, to the Modern Synthesis February, 2016
The History of Science and Contemporary Scientific Realism
- Charles Darwin and Sir John F.W. Herschel: Nineteenth-Century Science and its Methodology September, 2015
European Philosophy of Science Association — EPSA 2015
- Charles Darwin and Sir John F.W. Herschel: Nineteenth-Century Science and its Methodology August, 2015
15th Congress of Logic, Methodology, and Philosophy of Science — CLMPS 2015
- Adaptive Dynamics, Chaos, Chance, and Fitness July, 2015
International Society for the History, Philosophy, and Social Studies of Biology Meeting
- Is Organismic Fitness at the Basis of Evolutionary Theory? November, 2014
Philosophy of Science Association Meeting
- Models, Probability, and the Deep Past May, 2014
Models and Simulations 6
- Process and Product Concepts of Natural Selection and Genetic Drift August, 2013
European Philosophy of Science Association Meeting
- Process and Product Concepts of Natural Selection and Genetic Drift July, 2013
International Society for the History, Philosophy, and Social Studies of Biology Meeting
- Symposium: It's Okay to Call Genetic Drift a "Force" (commentators: Lindley Darden and Lindsay Craig) December, 2012
American Philosophical Association Eastern Division Meeting
- It's Okay to Call Genetic Drift a "Force" November, 2012
Philosophy of Science Association Meeting
- Oyun: Prisoner's Dilemma Tournaments in the Philosophy of Science July, 2012
American Association of Philosophy Teachers Meeting
- The Early History of Chance in Evolution: Causal and Statistical in the 1890s June, 2012
History of the Philosophy of Science — HOPOS 2012
- Software Demo: RLetters June, 2012
Digital Humanities Summer Institute Colloquium
- Four Conflated 'Chance'-Like Concepts in Evolutionary Theory April, 2012
Indiana Philosophical Association
- Biology and Metaphysics: The Causalist/Statisticalist Debate April, 2012
PhiloSTEM-3
- The Early History of Chance in Evolution: Causal and Statistical in the 1890s March, 2012
Integrated History and Philosophy of Science — eHPS4

- Chance in Evolution: A Reassessment July, 2011
International Society for the History, Philosophy, and Social Studies of Biology Meeting
- Biometry and Mendelism: A Philosophical Controversy July, 2009
International Society for the History, Philosophy, and Social Studies of Biology Meeting
- W.F.R. Weldon, Karl Pearson, and Causation May, 2009
MBL-ASU History of Biology Summer Seminar
- Toward a New Picture of Logical Reduction April, 2008
University of Western Ontario Logic, Mathematics and Physics Graduate Philosophy Conference

CHAired CONFERENCE SESSIONS

- Developing a Normative Framework for Cyberwarfare November, 2016
United States Naval Academy

ORGANIZED AND CO-ORGANIZED SESSIONS AND SEMINARS

- Monthly Seminar, Historical Explanation 2018–2019
CEFISES, Université catholique de Louvain

ORGANIZED AND CO-ORGANIZED CONFERENCES

- Scientific Committee, IX Conference of the Spanish Society for Logic, Methodology, and Philosophy of Science November, 2018

POSTER PRESENTATIONS

- K-12 Science Teachers: Unsuspecting Philosophers of Science November, 2018
Philosophy of Science Association — PSA 2018 (with Greg Macklem and Erik Peterson)
- evoText: Digital Humanities Meets Evolutionary Biology February, 2012
Notre Dame Graduate Research Symposium (awards received)
- MTBindingSim: A Program to Simulate Protein Binding to Microtubules March, 2011
Chicago Cytoskeleton (with Julia Philip and Holly Goodson)(with Julia Philip and Holly Goodson)

OTHER PRESENTATIONS

- evoText December, 2013
National Evolutionary Synthesis Center
- The Ethics of Warfare on the Unmanned Battlefield April, 2013
US Air Force ROTC Detachment 225, Leadership Laboratory

WORKSHOPS AND SEMINARS

- Association for Practical and Professional Ethics, Ethics Center Directors' Summit 2018
- Society for Ethics Across the Curriculum (as Director, LSU Ethics Institute) 2017
- Cyberwarfare Curriculum Development (invited participant), Naval Postgraduate School 2016

- Cyberwar, Ethics, and International Humanitarian Law (invited participant), International Committee of the Red Cross, Geneva 2014
- Uses of Scale in Literary Study Workshop (invited participant), University of Illinois at Urbana-Champaign 2013
- Digital Humanities Summer Institute, University of Victoria: Out-of-the-Box Text Analysis for the Digital Humanities 2012
- Marine Biological Laboratory / Arizona State University History of Biology Summer Seminar: Theory in the Life Sciences 2009
- Carnegie Mellon Summer School in Logic and Formal Epistemology 2006
- University of Texas M.D. Anderson Cancer Center Science Park Summer Research Program 2003

TEACHING EXPERIENCE

- **Université catholique de Louvain** 2018–present
Chargé de cours
 - Developed curriculum, delivered lectures, and evaluated student work for the following courses:
 - Séminaire d'éthique des relations sciences-sociétés (Spring, 2019): In English, master-level course on ethics, science, and society
 - Séminaire de philosophie des sciences de la nature (Spring, 2019): In English, master-level course on philosophy of science (co-titulaire)
 - Questions d'éthique dans les sciences et les techniques (Spring, 2019): In English and French, master-level course treating examples of ethics in science and technology (co-titulaire)
- **Louisiana State University** 2014–2018
Assistant Professor
 - Developed curriculum, delivered lectures, and evaluated student work for the following courses:
 - Philosophy of Science (Fall, 2014, Spring, 2016, and Spring, 2018): Upper division undergraduate majors' and master's students' survey course
 - History and Philosophy of STEM (Spring, 2015, 2016, 2017, and 2018): Introductory course in history and philosophy of science for students pursuing a secondary teaching certification
 - Philosophy of Biology (Spring, 2017): Upper division undergraduate majors' and master's students' course
 - Scientific Knowledge (Fall, 2016): M.A. seminar in epistemology, focusing on inductive/abductive inference
 - Symbolic Logic (Fall, 2014 and Fall, 2016): Introductory course in symbolic logic
 - Ethics and New Weapons Technologies (Spring, 2015): Introductory course on ethical questions in contemporary warfare/technology
 - Developed two new courses added to the curriculum (Philosophy of Biology; Ethics and New Weapons Technologies)
 - Offered multiple directed reading and independent study courses at undergraduate and graduate levels, including history and philosophy of biology, agnotology, and epistemology
- **University of Notre Dame** 2012–2014
Lecturer
 - Emerging Weapons Technology and the Ethics of Peace and War (Spring, 2013 and 2014): Co-taught

- with Maj. Gen. Robert H. Latiff, Ph.D., USAF (Ret.), developed about ⅔ of curriculum (syllabus, readings, etc.), delivered corresponding lectures, and evaluated student work
- Introduction to Philosophy (Fall, 2012): Developed curriculum (syllabus, readings, etc.), delivered lectures, and evaluated student work
- **University of Notre Dame** 2012
Student Facilitator
 - Graduate School Ethics Workshop (Spring, 2012): Invited to facilitate discussions in the official, university-wide, required graduate training on research ethics
 - **Notre Dame Summer School Program for Secondary Teachers** 2009
Lecturer
 - Program offers masters-credit courses in HPS to secondary science and mathematics teachers
 - Evolution, Heredity, and the History of Biology (Summer, 2009): Developed curriculum (syllabus, readings, etc.), delivered lectures, and evaluated student work
 - **University of Notre Dame** 2008–2010
Teaching Assistant
 - Fundamental Concepts of Natural Science (in the Program of Liberal Studies, Spring, 2009 and 2010, Robert Goulding, professor): Ran geometry tutorials, review sessions, grading
 - Medical Ethics, (Fall, 2009, David Solomon, professor): Led discussion sections, grading
 - Introduction to Philosophy (Fall, 2008, Jeff Speaks, professor): Led discussion sections, grading
 - **Invited Guest Lectures**
 - At New York University: Panelist for course on Engineering Technologies of Peace (Spring, 2017)
 - At the Naval Postgraduate School: Ethics of Warfare Graduate Seminar (Spring, 2016)
 - At New York University: Panelist for course on the Ethics of 21st-Century Engineering (Spring, 2015)
 - At the University of Notre Dame: Scientific Images of Humanity (Fall, 2008), Fundamental Concepts of Natural Science (Spring, 2009 and 2010), Philosophy of Science (Fall, 2010)

OTHER PROFESSIONAL ACTIVITIES

- Research Fellow, Emerging Technologies of National Security and Intelligence, John 2013–present
J. Reilly Center for Science, Technology, and Values, University of Notre Dame
- Referee: *Acta Biotheoretica*, *Biology & Philosophy*, *Ergo*, *Erkenntnis*, *European Journal for Philosophy of Science*, *Philosophy of Science*, *Philosophy & Theory in Biology*, *Science Education*, *Studies in History and Philosophy of Biological and Biomedical Sciences*, *Synthese*, *Theoria*
- Invited Book Reviewer: *Evolution: Education and Outreach*, *HOPOS*, *Reports of the National Center for Science Education*, *Studies in History and Philosophy of Biological and Biomedical Sciences*
- Invited Book Proposal Referee: Cambridge University Press, Elsevier, Springer, Oxford University Press
- Invited Conference Proposal Referee: Indiana Philosophical Association
- Proposal Referee: US National Science Foundation, Mitacs Accelerate

UNIVERSITY AND DEPARTMENTAL SERVICE

- **Université catholique de Louvain**
 - Directeur, Centre de philosophie des sciences et sociétés (CEFISES) 2018–present

- **Louisiana State University**
 - Director, LSU Ethics Institute 2017–2018
 - Department of Philosophy, Webmaster 2015–2018
 - Department of Philosophy, Director of Undergraduate Studies 2016–2017
 - Participant, Working Group on LSU Ethics Center 2016–2017
 - Department of Philosophy, Director of Undergraduate Recruitment 2014–2017
 - Department of Philosophy, Assistant Director of Undergraduate Studies 2014–2016
 - Participant, Focus Group on LSU Flagship 2030 Agenda 2016
- **University of Notre Dame**
 - Program in History and Philosophy of Science, Planning Committee Member 2011–2012
 - Program in History and Philosophy of Science, Graduate Handbook Committee 2011
 - Philosophy Department Graduate Representative 2010–2011
 - Graduate Student Union Council Representative, Philosophy Department 2009–2011
- **Princeton University**
 - Web Designer/Programmer, Logic Instruction Website 2005–2007
 - Philosophy Department Curriculum Committee Member 2006

PROFESSIONAL ASSOCIATIONS

- Philosophy of Science Association
- European Philosophy of Science Association
- International Society for the History, Philosophy, and Social Studies of Biology
- International Society for the History of Philosophy of Science

LANGUAGES

- Programming Languages: C, C++, Go, Ruby, Ruby on Rails (fluent), Python, Shell (working knowledge), MATLAB, PHP (familiarity)
- French (intermediate speaking and reading)
- Spanish (elementary speaking and reading)
- German (basic reading)

Last revised: November 6, 2018