

CHARLES H. PENCE

University of Notre Dame
Program in History and Philosophy of Science
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EDUCATION

- **University of Notre Dame** 2007–[2013, proj.]
Ph.D. in History and Philosophy of Science
M.A. in Philosophy
 - Dissertation: *Concepts and Uses of Chance in Evolutionary Theory*
 - Advisor: Grant Ramsey
 - Committee: Anjan Chakravartty (Philosophy), Phillip Sloan (Program in Liberal Studies), Fritz Warfield (Philosophy)
- **Princeton University** 2004–2007
A.B. in Philosophy, cum laude
 - Senior Thesis: *Spacetime and Natural Law*
 - Advisor: Adam Elga

RESEARCH AND TEACHING INTERESTS

- **Areas of Specialization**
 - Philosophy of biology
 - History of biology
 - General philosophy of science
- **Areas of Competence**
 - Philosophy of physics
 - Metaphysics
- **Areas of Special Teaching Interest**
 - Medical / Bio-Ethics
 - Logic / Philosophy of Mathematics

AWARDS AND HONORS

- Lilly Presidential Graduate Fellowship 2007–2012
- J. Walker Tomb Senior Thesis Prize 2007

ARTICLES

- Pence, C.H. “‘Describing our Whole Experience’: The Statistical Philosophies of W.F.R. Weldon and Karl Pearson.” 2011. *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., Hollocher, H., Nichols, R., Ramsey, G., Siu, E., and Sportiello, D. 2011. “[Review of] Elliott Sober: Did Darwin Write the Origin Backwards? Philosophical Essays on Darwin’s Theory.” *Philosophy of Science* 78(4):705–709.
- Hollocher, H., Fuentes, A., Pence, C.H., Ramsey, G., Sportiello, D. and Wirth, M. 2011. “[Review of] On the Origin of Stories: Evolution, Cognition, and Fiction.” *The Quarterly Review of Biology* 86(2):137–138.
- 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.

UNDER REVIEW AND IN PREPARATION

- Pence, C.H. “The Conflation of ‘Chance’ in Evolution.” In preparation. Preprint available on the PhilSci-Archive.
- Pence, C.H. and Ramsey, G. “A New Foundation for the Propensity Interpretation of Fitness.” Under review.
- Pence, C.H. and Ramsey, G. “The Disunity of Trait Fitness and the Causalist-Statisticalist Debates.” Under review.

GRANTS

- Exploratory Seminars Grant: Digital Humanities Working Group 2011–2012
- International Society for the History, Philosophy, and Social Studies of Biology Travel Grant 2011
- Notre Dame Conference Presentation Grant (ISHPSSB Conference) 2011
- International Society for the History, Philosophy, and Social Studies of Biology Travel Grant 2009
- Notre Dame Conference Presentation Grant (ISHPSSB Conference) 2009
- Notre Dame Downes Travel Grant (MBL-ASU Seminar) 2009
- Notre Dame Conference Presentation Grant (UWO Conference) 2008

CONFERENCE PRESENTATIONS

- **Chance in Evolution: A Reassessment** July 10–15, 2011
International Society for the History, Philosophy, and Social Studies of Biology Meeting
- **Biometry and Mendelism: A Philosophical Controversy** July 12–16, 2009
International Society for the History, Philosophy, and Social Studies of Biology Meeting
- **W.F.R. Weldon, Karl Pearson, and Causation** May 20–27, 2009
MBL-ASU History of Biology Summer Seminar
- **Toward a New Picture of Logical Reduction** April 30–May 1, 2008
University of Western Ontario Logic, Mathematics and Physics Graduate Philosophy Conference

WORKSHOPS AND SEMINARS

- MBL-ASU History of Biology Summer Seminar: Theory in the Life Sciences 2009
- Carnegie Mellon Summer School in Logic and Formal Epistemology 2006

- Univ. of Texas M.D. Anderson Cancer Center Science Park Summer Research Program 2003

TEACHING EXPERIENCE

- **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 2010, Robert Goulding, professor): Ran geometry tutorials, review session, grading
 - Medical Ethics, (Fall 2009, David Solomon, professor): Led discussion sections, grading
 - Fundamental Concepts of Natural Science (in the Program of Liberal Studies, Spring 2009, Robert Goulding, professor): Ran geometry tutorials, review session, grading
 - Introduction to Philosophy (Fall 2008, Jeff Speaks, professor): Led discussion sections, grading
 - Guest lecturer: Scientific Images of Humanity (Fall 2008), Fundamental Concepts of Natural Science (Spring 2009 and Spring 2010), Philosophy of Science (Fall 2010)

UNIVERSITY AND DEPARTMENTAL SERVICE

- **University of Notre Dame**
 - Program in History and Philosophy of Science Planning Committee Member 2011–2012
 - Philosophy Department Class Representative 2010–2011
 - Graduate Student Union Council Representative, Philosophy Department 2009–2011
- **Princeton University**
 - Philosophy Department Curriculum Committee Member 2006
 - Web Designer/Programmer, Logic Instruction Website 2005–2007

PROFESSIONAL ASSOCIATIONS

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

LANGUAGES

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

OTHER PROFESSIONAL ACTIVITIES

- Referee: *Philosophy of Science*

Last revised: October 25, 2011