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NOVEMBER 2016

Appointment **OHIO UNIVERSITY**
Assistant Professor (tenure track), Department of Philosophy, August 2014-Present.

Education **UNIVERSITY OF PITTSBURGH**
Ph.D., History and Philosophy of Science, August 2014.
Dissertation: *Models in Scientific Practice*.
Committee: Sandra D. Mitchell (co-director), James G. Lennox (co-director),
Kenneth F. Schaffner, and P. Kyle Stanford (external).

UNIVERSITY OF NEVADA, RENO
M.A., Philosophy, May 2007.
B.A. *summa cum laude*, Philosophy, May 2005.

Areas of
Specialization Philosophy of Science, Philosophy of Biology

Areas of
Competence Ethics (esp. Metaethics), Philosophy of Cognitive Science, Logic, History of Science,
History of Biology

Peer-Reviewed
Journal Articles Yoichi Ishida. 2017. "Sewall Wright, Shifting Balance Theory, and the Hardening
of the Modern Synthesis." *Studies in History and Philosophy of Biological and
Biomedical Sciences* 61: 1–10.

Frank V. Marcoline, Yoichi Ishida, Joseph A. Mindell, Smita Nayak, and Michael
Grabe. 2016. "A Mathematical Model of Osteoclast Acidification During
Bone Resorption." *Bone* 93: 167–180.

Yoichi Ishida, Smita Nayak, Joseph A. Mindell, and Michael Grabe. 2013. "A Model
of Lysosomal pH Regulation." *Journal of General Physiology* 141: 705–720.

Yoichi Ishida. 2009. "Sewall Wright and Gustave Malécot on Isolation by Distance."
Philosophy of Science 76: 784–796.

David W. Zeh, Jeanne A. Zeh, and Yoichi Ishida. 2009. "Transposable Elements and
an Epigenetic Basis for Punctuated Equilibria." *BioEssays* 31: 715–726.

Yoichi Ishida. 2007. "Patterns, Models, and Predictions: Robert MacArthur's Approach to Ecology." *Philosophy of Science* 74: 642–653.

Work
in Progress

"Random Sampling, Offspring Distribution, and Genetic Drift." (With Alirio Rosales)

"Drift, Selection, and Probabilistic Causality"

"Realism, Instrumentalism, and Uses of Models in Science."

"External Representation and Mathematical Modeling"

Peer-Reviewed
Conference
Presentations

"Visual Thinking in Genetics."

International Society for the History, Philosophy, and Social Studies of Biology, Montreal, Canada, July 5–10, 2015.

"Visual Thinking in Genetics."

Diagrams as Vehicles of Scientific Reasoning, Center for Philosophy of Science, University of Pittsburgh, USA, April 10–12, 2015.

"Seymour Benzer, Genetic Maps, and the Junkman's Problem."

International Society for the History, Philosophy, and Social Studies of Biology, Montpellier, France, July 7–12, 2013.

"Random Sampling, Offspring Distribution, and Genetic Drift."

Philosophy of Biology at Madison, University of Wisconsin, Madison, USA, June 1–3, 2012. (Co-authored with Alirio Rosales)

"Roles of Models in Population Genetics: Sewall Wright's Analysis of the *Linanthus* Data."

International Society for the History, Philosophy, and Social Studies of Biology, University of Utah, Salt Lake City, USA, July 10–15, 2011. (Part of a symposium on "Population Genetics as a Multidimensional Scientific Discipline," which I co-organized with Alirio Rosales.)

"The Origins of *F*-statistics: Sewall Wright and Gustave Malécot on Inbreeding and Relationship."

Philosophy of Science Association, Montreal, QC, Canada, November 4–6, 2010. (Part of a symposium on "Sewall Wright's *F*-statistics: Measurement of Biological Population Structure and its Causes," organized by Marshall Abrams.)

"The Danger of Taking a Population Genetic Model Too Seriously (and Too Literally)."

Models and Simulations 3, University of Virginia, USA, March 6–8, 2009.

“Sewall Wright’s Analysis of the Distribution of Flower Color in *Linanthus parryae*, 1941–1978.”

International Society for the History, Philosophy, and Social Studies of Biology, Emmanuel College, Brisbane, Australia, July 12–16, 2009.

“The Optimality Argument for the 3/4-Power Scaling Law in Ecology.”

Pitt-Paris I: Adaptations in Biology and in Psychology, Institut d’Histoire et de Philosophie des Sciences et des Techniques, Paris, France, June 4–5, 2008.

“Sewall Wright and Gustave Malécot on Isolation by Distance.”

Philosophy of Science Association, Pittsburgh, PA, USA, November 6–9, 2008.

“Patterns, Models, and Predictions: Defending Robert MacArthur’s Approach to Ecology.”

Philosophy of Science Association, Vancouver, BC, Canada, November 2–5, 2006.

Invited Talks

“A Model of Lysosomal pH Regulation.”

Mathematical Biology Seminar, Ohio University, April 22, 2015.

“Causal Inference and Experimental Design.”

Molecular and Cellular Biology Seminar, Ohio University, November 18, 2014.

Federal
Research Grant

“Historical and Philosophical Analysis of the Genetic Maps in Seymour Benzer’s Research on Genetic Fine Structure.” Doctoral Dissertation Research Improvement Grant, National Science Foundation, 2012–2013. (NSF #1230201; \$10,865)

Courses Taught

OHIO UNIVERSITY

Causation and Explanation (Graduate) (Fall 2016).

Graduate Seminar in Philosophy (on Elliott Sober’s *Ockham’s Razors*) (Spring 2016).

Philosophy of Science (Graduate) (Fall 2015).

Evolution of Human Cognition and Cooperation (Graduate) (Spring 2015).

Fundamentals of Philosophy (Spring 2015, Spring 2016).

Philosophy of Science Survey (Fall 2014).

Principles of Reasoning (Fall 2014, Fall 2015, Fall 2016).

UNIVERSITY OF PITTSBURGH

Principles of Scientific Reasoning (Fall 2010, Spring 2013).

Myth and Science (History of Ancient Greek Science) (Spring 2011).

UNIVERSITY OF NEVADA, RENO

Introduction to Philosophy (Fall 2006, Spring 2007).

Thesis	Committee Member, Aimee Bly (Ohio University)
Committees	Committee Member, Christopher Arledge (Ohio University)
Served	Committee Member, Jordan Shonberg (Ohio University) Committee Member, Duke Cruz (Ohio University) Committee Member, Ryan O'Loughlin (Ohio University) Committee Member, Ben Smith (Ohio University) Committee Member, Alex Pleskach (Ohio University)
Service to the Profession	Session organizer (with Alirio Rosales), Symposium on Population Genetics as a Multidimensional Scientific Discipline, International Society for the History, Philosophy, and Social Studies of Biology, Salt Lake City, USA, July 10–15, 2011. Session 1: "Theories, Models, and Data in Classical Population Genetics" (Presenters: Alirio Rosales, Jon Seger, and Yoichi Ishida); Session 2: "Population Genetic Modeling in the Age of Molecular Data" (Presenters: Michael Dietrich, Anya Plutynski, and Edna Suárez-Díaz). Referee for <i>Philosophy of Science</i> (2009, 2011, 2013, 2014, 2015, 2016); <i>The British Journal for the Philosophy of Science</i> (2015); <i>Journal of Theoretical Biology</i> (2016); <i>Bioscience</i> (2010).
Languages	Japanese (native), English (fluent), French (reading)
Professional Affiliations	American Philosophical Association History of Science Society International Society for the History, Philosophy, and Social Studies of Biology Philosophy of Science Association
References	Available upon request.