

## YOICHI ISHIDA

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MAY 2019

- 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 Philosophy of Cognitive Science, Ethics, Logic (deductive and inductive), History of Science, History of Biology
- Peer-Reviewed Journal Articles Yoichi Ishida. Forthcoming. "In Dialectical Tension: Realist and Instrumentalist Attitudes in Scientific Practice." *Synthese*.
- 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.

Papers

A paper on mathematical modeling of dynamical systems

Under Review

A paper on the development of theoretical population genetics

Peer-Reviewed  
Conference  
Presentations

“Equations and Models.”

Philosophy of Science Association, Seattle, USA, November 1–4, 2018.

“Equations and Models.”

Models and Simulations 8, University of South Carolina, USA, March 15–17, 2018.

“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  
(by Topics)

**OHIO UNIVERSITY**

PHILOSOPHICAL WRITING AND METHODOLOGY

Graduate Seminar on Philosophical Writing (Fall 2018, Fall 2019).

INTRODUCTION TO PHILOSOPHY

Fundamentals of Philosophy (Spring 2015, Spring 2016, Spring 2017, Spring 2018).

LOGIC AND CRITICAL THINKING

Principles of Reasoning (Fall 2014, Fall 2015, Fall 2016, Fall 2017, Fall 2018, Fall 2019).

PHILOSOPHY OF SCIENCE

Graduate Seminar on Philosophy of Science (Fall 2015, Spring 2018).

Graduate Seminar on Causation and Explanation (Fall 2016).

Graduate Seminar on Elliott Sober's *Ockham's Razors* (Spring 2016).

Philosophy of Science Survey (Fall 2014, Spring 2019).

PHILOSOPHY OF BIOLOGY

Graduate Seminar on Evolution of Human Cognition and Cooperation (Spring 2015, Spring 2017).

SOCIAL ONTOLOGY AND PHILOSOPHY OF SOCIAL SCIENCE

Graduate Seminar on Models of Mind and Society (Fall 2017).

MORAL PSYCHOLOGY

Graduate Seminar on John Doris's *Talking to Our Selves* (Spring 2019).

**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).

Independent  
Studies  
Directed

Probabilistic Causality (Duke Cruz, MA student in philosophy; Spring 2016).  
Metaphysics and Semantics (Luke Elmore, MA student in philosophy; Spring 2018).  
Neuroscience and Philosophy of Mind (Noelle Stroud, undergraduate in the Honors  
Tutorial College; Fall 2018).

Thesis  
Committees  
Served

Thesis Director for Luke Elmore and Nicholas Bochenek (all at Ohio University).  
Committee Member for Aimee Bly, Christopher Arledge, Jordan Shonberg, Duke  
Cruz, Ryan O'Loughlin, Ben Smith, Alex Pleskach, Carlin Chruscicki, Kyle  
Burbach, and Dylan Rostoker (all at Ohio University).

Service to the  
Department

Graduate Committee (2017-)  
Library Committee (2017-)  
Director of Studies (Philosophy), Honors Tutorial College (2017-2018)  
Ad Hoc Committee for Department Self-Assessment Survey for Inclusion and Ac-  
cessibility (2017)

Service to the Profession	<p>Program Committee, Philosophy of Science Association, 2020.</p> <p>Program Committee, British Society for the Philosophy of Science, 2018.</p> <p>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.</p> <p>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).</p> <p>Referee for <i>Studies in History and Philosophy of Biological and Biomedical Sciences</i> (2019); <i>Biology and Philosophy</i> (2017); <i>Philosophy of Science</i> (2009, 2011, 2013, 2014, 2015, 2016, 2017, 2018, 2019); <i>The British Journal for the Philosophy of Science</i> (2015); <i>Journal of Theoretical Biology</i> (2016); <i>Bioscience</i> (2010).</p>
Languages	Japanese (native), English (fluent), French (reading)
Professional Affiliations	International Society for the History, Philosophy, and Social Studies of Biology Philosophy of Science Association