

YOICHI ISHIDA

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MAY 2021

Appointment

OHIO UNIVERSITY

Associate Professor with Tenure, Department of Philosophy, August 2020-Present.
Assistant Professor (tenure track), Department of Philosophy, August 2014-July 2020.

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

History and Philosophy of Science, 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

(315 total citations, h-index = 5, based on Google Scholar)

Yoichi Ishida. 2020. "In Dialectical Tension: Realist and Instrumentalist Attitudes in Scientific Practice." *Synthese* 197, no. 6 (June): 2665–2694.
<https://doi.org/10.1007/s11229-018-1855-z> (First published online in 2018.)

Yoichi Ishida and Alirio Rosales. 2020. "The Origins of the Stochastic Theory of Population Genetics: The Wright-Fisher Model." *Studies in History and Philosophy of Biological and Biomedical Sciences* 79 (February): 101226.
<https://doi.org/10.1016/j.shpsc.2019.101226>

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 (February): 1–10.
<https://doi.org/10.1016/j.shpsc.2016.11.001>

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 (December): 167–180.
<https://doi.org/10.1016/j.bone.2016.09.007>

Yoichi Ishida, Smita Nayak, Joseph A. Mindell, and Michael Grabe. 2013. “A Model of Lysosomal pH Regulation.” *Journal of General Physiology* 141, no. 6 (June): 705–720. <https://doi.org/10.1085/jgp.201210930>

Yoichi Ishida. 2009. “Sewall Wright and Gustave Malécot on Isolation by Distance.” *Philosophy of Science* 76, no. 5 (December): 784–796.
<https://doi.org/10.1086/605802>

David W. Zeh, Jeanne A. Zeh, and **Yoichi Ishida**. 2009. “Transposable Elements and an Epigenetic Basis for Punctuated Equilibria.” *BioEssays* 31, no. 7 (July): 715–726. <https://doi.org/10.1002/bies.200900026>

Yoichi Ishida. 2007. “Patterns, Models, and Predictions: Robert MacArthur’s Approach to Ecology.” *Philosophy of Science* 74, no. 5 (December): 642–653.
<https://doi.org/10.1086/525610>

Invited
Publication

Yoichi Ishida. 2020. “In Praise of Teachers.” *APA Newsletter on Asian and Asian-American Philosophers and Philosophies* 20, no. 1 (Fall): 28–30. A Special Issue on “What Is It Like To Be A Philosopher of Asian Descent?” edited by A. Minh Nguyen and Yarran Hominh.

Work
in Progress

A paper on exchangeable population models in evolutionary genetics
A paper on qualitative analysis of dynamical systems
A paper on metabolic scaling laws in ecology
A paper on visual thinking in genetics
A textbook on logic and critical thinking

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, Fall 2020).

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, Fall 2020).

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, Spring 2020, Spring 2021).

Senior Seminar on Objectivity, Agnotology, and Trust in Science (Spring 2021).

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).

HISTORY OF PHILOSOPHY

Graduate Seminar on Pragmatism (Spring 2020).

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

History of Philosophy of Science, Hesse to van Fraassen (Connor Griffiths, Marc Guagenti, Eric Kanable, and Ryan Powers, MA students in philosophy; Spring 2021)

History of Philosophy of Science, Mach to Nagel (Connor Griffiths, Marc Guagenti, Eric Kanable, and Ryan Powers, MA students in philosophy; Fall 2020)

Classics in History and Philosophy of Science (Noelle Stroud, undergraduate in the Honors Tutorial College; Spring 2020)

Philosophy of Cancer Biology (Lizzy Davis, undergraduate in the Honors Tutorial College; Fall 2019).

Neuroscience and Philosophy of Mind (Noelle Stroud, undergraduate in the Honors Tutorial College; Fall 2018).

Metaphysics and Semantics (Luke Elmore, MA student in philosophy; Spring 2018).

Probabilistic Causality (Duke Cruz, MA student in philosophy; Spring 2016).

Theses
Directed

Connor Griffith, M.A. in Philosophy, Ohio University. Thesis Title: "A Confucian Response to Amoralism" (in progress).

Jacob Coleman, M.A. in Philosophy, Ohio University. Thesis Title: "An Aesthetic Experience of Comedy: Dewey and Incongruity Theory" (completed in Spring 2021).

Nicholas Bochenek, M.A. in Philosophy, Ohio University. Thesis Title: "Knowing in the Face of Power" (completed in Spring 2020).

Luke Elmore, M.A. in Philosophy, Ohio University. Thesis Title: "Beyond the Limits of Disagreement: Sense and Self-Reference" (completed in Summer 2019).

Thesis Committees Served Committee Member for Aimee Bly, Christopher Arledge, Jordan Shonberg, Duke Cruz, Ryan O'Loughlin, Ben Smith, Alex Pleskach, Carlin Chruscicki, Kyle Burback, Dylan Rostoker, Brad Osuna, and David Ween (all at Ohio University).

Professional Development Activities Faculty Learning Community on Digital Humanities in the Classroom (Jeremy Webster and Brian Schoen, Organizers), Ohio University, Spring 2021.
Open Textbook Workshop, Ohio University, October 17, 2017.
Faculty Learning Community on Challenges in Teaching (Herta Rodina and Neil Bernstein, Organizers), Ohio University, Spring 2015.

Service to the Department Graduate Chair (2019-)
Graduate Committee (2017-)
Library Committee (2017-)
Committee on Workload and Annual Evaluation Process (Chair, 2021)
Promotion and Tenure Committee (2020)
Annual Evaluation Committee (2020)
Director of Studies (Philosophy), Honors Tutorial College (2017-2018)
Ad Hoc Committee for Department Self-Assessment Survey for Inclusion and Accessibility (2017)

Service to the Profession Program Committee, Philosophy of Science Association, 2020.
Program Committee, British Society for the Philosophy of Science, 2018.
Referee, Ohio Philosophical Association, 2019.
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 *Studies in History and Philosophy of Science* (2021); *Synthese* (2021); *History and Philosophy of the Life Sciences* (2020, 2021); *Studies in History and Philosophy of Biological and Biomedical Sciences* (2019); *Philosophy of Science* (2009, 2011, 2013, 2014, 2015, 2016, 2017, 2018, 2019); *Biology and Philosophy* (2017, 2021); *Journal of Theoretical Biology* (2016); *The British Journal for the Philosophy of Science* (2015); *Bioscience* (2010).

Languages Japanese (native), English (fluent), French (reading)

Professional Affiliations International Society for the History, Philosophy, and Social Studies of Biology
Philosophy of Science Association