

# BEATRICE LOLA STEINERT

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## EDUCATION

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PhD in Organismic and Evolutionary Biology and History of Science, Harvard University, expected 2024

BA in Biology (Honors) and Science and Society, Brown University, 2016

- Honors Thesis: "Drawing Embryos Together: Processes of Seeing Development in *Crepidula fornicata*"
- BA partly fulfilled in Printmaking, Rhode Island School of Design (RISD)

## PRIZES, FELLOWSHIPS, AWARDS

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Bowdoin Prize for Graduate Essay in the Natural Sciences, Harvard University, 2022

National Science Foundation Graduate Research Fellowship, Harvard University, 2018-2021

Presidential Scholar, Harvard University, 2018-2024

Simmons Award, Harvard Center for Biological Imaging, 2020-2022

McDonnell Fellowship, Marine Biological Laboratory, 2018

Catherine N. Norton Fellowship, MBLWHOI Library, 2016-2017

Dean Marjorie Thompson Senior Prize in Biology, Brown University, 2016

S.C. Rosenberger Prize for the Best Undergraduate Thesis in Science and Technology Studies, Brown University, 2016

Royce Fellowship, Brown University, 2015-2016

Research at Brown Grant, Brown University, 2015-2016

National Science Foundation RI EPSCoR Undergraduate Research Fellowship, Rhode Island School of Design, 2014

## EMPLOYMENT AND TEACHING

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History of Science 100: Knowing the World, Harvard University, *Teaching Fellow* Fall 2021

Visualization and Biology, University of Chicago at MBL, *Guest Lecturer* Fall 2019

Wharton Lab, Dept. of Mol. Biology, Cell Biology, and Biochemistry, Brown University, *Research Assistant* 2016-2018

- Investigated the role of mitochondria morphology and function in nervous system development and degeneration of *Drosophila melanogaster* amyotrophic lateral sclerosis (ALS) models
- Managed a lab that uses *Drosophila* to understand molecular mechanisms underlying cell communication, function, and behavior during embryonic development and degeneration in neurodegenerative disease models

Developmental Biology, Brown University, *Lecturer and Teaching Assistant* Fall 2017

Biological Design: Structural Architecture of Organisms, Brown University, *Teaching Assistant* 2014-2015

## PUBLICATIONS

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Scholarly Reviews, Articles, Book Chapters

- Beatrice Steinert, "Janina Wellmann, The Form of Becoming: Embryology and the Epistemology of Rhythm, 1760-1830," *Journal of the History of Biology* 52 (September 2019), 493-495.
- Yanagi, Katherine S., Zhijin Wu, Joshua Amaya, Natalie Chapkis, Amanda M. Duffy, Kaitlyn H. Hajdarovic, Aaron Held, Arjun D. Mathur, Kathryn Russo, Veronica H. Ryan, Beatrice L. Steinert, Joshua P. Whitt, Justin R. Fallon, Nicolas L. Fawzi, Diane Lipscombe, Robert A. Reenan, Kristi A. Wharton, Anne C. Hart, "Meta-Analysis of Genetic Modifiers Reveals Candidate Dysregulated Pathways in Amyotrophic Lateral Sclerosis." *Neuroscience* 396 (January 1, 2019): A3-20.
- Beatrice Steinert and Kate MacCord, "Visualizing the Cell: Pictorial Styles and their Epistemic Goals in General Cytology," in *Visions of Cell Biology: Reflections Inspired by Cowdry's General Cytology*, eds. Karl Matlin, Jane Maienschein, and Manfred Laubichler, University of Chicago Press, 2018.

Online Media

- "Visual Media in Embryology," MBL History Project digital exhibit, 2017.
- "Drawing Embryos, Seeing Development," The Node, January 25<sup>th</sup>, 2016.
- "Edmund Beecher Wilson," MBL History Project digital exhibit, 2016 (co-authored with Jane Maienschein).

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- "Microscopic Discovery: A Guide for Seeing Life at Small Scale," *Synthesis: An Undergraduate Journal of the History of Science*, Issue 6, 2015, pp 25-36.

## INVITED AND CONFERENCE TALKS

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- "Dying Things," *British Society for the History of Science Global Digital History of Science Festival*, July 9, 2020.
- "Seeing Time, Making Embryos Visible," *Harvard Modern Sciences Working Group*, Cambridge, MA, October 30, 2018.
- "Exploring the Past, Present, and Future of Cell Lineage Studies," *Marine Biological Laboratory Embryo Journal Club*, Woods Hole, MA, June 1, 2018.
- "Drawing Embryos Together: Seeing 'The Embryology of *Crepidula*,'" *Joint Atlantic Seminar for the History of Biology*, Philadelphia, PA, March 25, 2017.  
-----invited talk, *Marine Biological Laboratory*, Woods Hole, MA, July 5, 2017.  
-----invited talk, *Princeton History of Science department*, Princeton, NJ, Dec. 6, 2017.
- "Seeing *Crepidula fornicata* Development under the Microscope and in Virtual Reality," *Society for Developmental Biology 75<sup>th</sup> Annual Meeting*, Boston, MA, August 4-8, 2016 (poster).  
-----*RI NSF EPSCoR 2017 Annual Research Symposium*, Providence, RI, April 12, 2017.
- "Drawing Embryos Together: Processes of Visualizing Cell Lineage in *Crepidula fornicata*," *History of Science Society*, San Francisco, CA, Nov. 21-24, 2015 (poster).
- "Let Me Tell You a Story: Curating Charisma for Successful Science Communication," *Better World by Design*, Providence, RI, Sept. 20-22, 2014 (presented with Noah Schlottman).

## GROUP EXHIBITIONS

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- *Potters and Printmakers*, Russell Janis Gallery, Brooklyn, NY (2017)
- *Wonder*, RISD Nature Lab, Providence, RI (2017)
- *STEAMshow*, Brown University Science Center, Providence, RI (2014)

## PRESS

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- "Sketching the Beginnings of Life, One Cell at a Time," *Scientific American*, February 22<sup>nd</sup>, 2017.
- "Drawing life at its start, cell by cell," *STAT News*, February 22<sup>nd</sup>, 2017.
- "Undergrad Charts Own Path in Scientific Quest," *Rhode Island NSF EPSCoR*, 2016.
- "Exploring Life in a Drop of Water," *RISD News*, September 9<sup>th</sup>, 2014.

## SKILLS

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*Laboratory*: micro-dissection; marine invertebrate aquaculture; *Drosophila melanogaster* husbandry and genetic manipulation; histology; immunohistochemistry; light and confocal microscopy; basics of molecular biology

*Studio*: intaglio (etching, dry point) and relief (woodblock, linoleum) printmaking; etching and lithography studio operation

*Computer*: Adobe Photoshop, Adobe InDesign, Adobe Illustrator, Adobe Premiere Pro, ImageJ, RStudio, Microsoft Office

*Languages*: German (reading and elementary speaking)