

Patrick Landon Ferree

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RESEARCH AREAS

Philosophy and sociology of the biomedical sciences

EDUCATION

University of Copenhagen

PhD Student in Science Studies – Graduate Program in Medicine, Culture, and Society

- Project: *Making up cells: A study of single-cell and spatial biology*
- Advisors: Karin Tybjerg & Sara Green

Copenhagen, DK
in Progress

Duke University School of Medicine

PhD in Developmental Biology – Graduate Program in Cell and Molecular Biology

- Dissertation: *Temporal regulation of cell divisions in the embryo of *Drosophila melanogaster**
- Committee: Stefano Di Talia, Michel Bagnat, Danny Lew, Bernard Mathey-Prevot, Nick Buchler

Durham, NC, USA
Apr 2022

University of California, San Diego

BA in Philosophy, BS in Chemistry, Minor in Political Science, *magna cum laude*

La Jolla, CA, USA
Jun 2012

CAREER

University of Copenhagen

PhD Student, Advisors: Karin Tybjerg & Sara Green

- Affiliation: Medical Museion, Department of Public Health, Faculty of Medical and Health Sciences
- Affiliation: Novo Nordisk Foundation Center for Basic Metabolic Research (CBMR)
- Affiliation: Center for Medical Science and Technology Studies (MeST)
- Research: Ethnography and philosophy of single-cell and spatial biology

Copenhagen, DK
Mar 2024 - Present

The National Research Centre for the Working Environment

Postdoctoral Researcher, Advisor: Keld Alstrup Jensen

- Research: Occupational exposure to airborne particles

Copenhagen, DK
Jun 2022 - Mar 2024

Duke University School of Medicine

PhD Student, Advisor: Stefano Di Talia

- Affiliation: Department of Cell Biology
- Research: Temporal patterning of mitosis in fly embryos

Durham, NC, USA
Sep 2014 - Apr 2022

University of Texas, El Paso

Research Technician, Advisor: Laura O'Dell

- Affiliation: Department of Psychology
- Research: Neuroscience of drug addiction in rats

El Paso, TX, USA
Jan 2013 - Sep 2014

Scripps Institute of Oceanography

Research Assistant, Advisor: Lynn Russell

- Research: Chemistry and physics of atmospheric aerosols

La Jolla, CA, USA
Jan - Sep 2012

PUBLICATIONS

P. L. Ferree, “Book Review: A History of Genomics across Species, Communities and Projects”, *New Genetics and Society*, 2025 (**Invited review essay - Forthcoming**).

P. L. Ferree, M. Polat, J. K. Nøjgaard, K. A. Jensen, “Airborne particulate matter and diesel engine exhaust on infrastructure construction sites in the Copenhagen metropolitan area”, *Annals of Work Exposures and Health*, Aug. 2024, doi.org/10.1093/annweh/wxae062 (**Article**).

- P. L. Ferree**, M. Xing, J.Q. Zhang, S. Di Talia, “Structure-function analysis of Cdc25 Twine degradation at the *Drosophila* maternal-to-zygotic transition”, *Fly*, vol. 16, no. 1, pp. 111–117, Dec. 2022, ISSN: 1933-6934 (**Article**).
- P. L. Ferree**, S. Di Talia, “Developmental Biology: Embryos Need to Control Their Nucleotides Just Right”, *Current Biology*, vol. 29, no. 7, R252–R254, Apr. 2019, ISSN: 09609822 (**Invited review essay**).
- P. L. Ferree**, S. Di Talia, “Chemical Waves in Embryonic Cell Cycles”, *Israel Journal of Chemistry*, vol. 58, no. 6, pp. 714–721, 2018, ISSN: 18695868 (**Review**).
- P. L. Ferree**, S. Di Talia, “For Embryos, Mother Can Only Take You So Far”, *Developmental Cell*, vol. 42, no. 3, pp. 203–205, 2017, ISSN: 18781551 (**Invited review essay**).
- P. L. Ferree**, V. Deneke, S. Di Talia, “Measuring time during early embryonic development”, *Seminars in Cell and Developmental Biology*, 2016, ISSN: 10849521 (**Review**).
- L. M. Carcoba, J. E. Orfila, L. E. Natividad, O. V. Torres, J. A. Pipkin, **P. L. Ferree**, E. Castañeda, D. E. Moss, L. E. O’Dell, “Cholinergic transmission during nicotine withdrawal is influenced by age and pre-exposure to nicotine: Implications for teenage smoking”, *Developmental Neuroscience*, vol. 36, no. 3-4, pp. 347–355, 2014, ISSN: 14219859 (**Article**).
- O. V. Torres, J. A. Pipkin, **P. L. Ferree**, L. M. Carcoba, L. E. O’Dell, “Nicotine withdrawal increases stress-associated genes in the nucleus accumbens of female rats in a hormone-dependent manner”, *Nicotine and Tobacco Research*, vol. 17, no. 4, pp. 422–430, 2014, ISSN: 1469994X (**Article**).

MANUSCRIPTS

- P. L. Ferree**, S. Brantley, T. Starr, A. Chao, S. Di Talia, “Activator-accumulation and repressor-depletion time mitosis during *Drosophila* gastrulation” (**Article - In Preparation**).

SELECT TALKS AND POSTER PRESENTATIONS

- P. L. Ferree**, “From clocks to hourglasses: Making time an epistemic object in developmental biology”, International Society for the History, Philosophy, and Social Studies of Biology (ISHPSSB), Porto, Portugal, July 2025 (**Accepted for a Talk**).
- P. L. Ferree**, “Technical and epistemic objects in cell-type classification: A study of single-cell sequencing”, Society for Philosophy of Science in Practice (SPSP), Columbia, SC, USA, May 2024 (**Poster**).
- P. L. Ferree**, C. Ribalta, A. Jensen, J. K. Nøjgaard, S. Nielsen, N. Sahlgren, T. Berthing, K. A. Jensen, “Workplace exposure to ultrafine particles, chemicals, and dust during plastic production with recycled plastics”, British Occupational Hygiene Society: Inhaled Particles and NanOEh, Manchester, UK, May 2023 (**Talk**).
- P. L. Ferree**, A. De Simone, S. Di Talia, “An activator-repressor model for improved temporal precision of transcription”, Quantitative Biology (Q-Bio), Oahu, HI, USA, Feb 2019 (**Talk**).
- P. L. Ferree**, C. Bunce, “The Questions of Developmental Biology”, The Society for Developmental Biology (SDB), Boston, MA, USA, Jul 2019 (**Poster**).
- P. L. Ferree**, A. De Simone, S. Di Talia, “An activator-repressor model for improved temporal precision of transcription”, Tissue Self-Organization: Challenging the Systems, Heidelberg, Germany, Mar 2018 (**Poster**).

SELECT SCHOOLS AND WORKSHOPS ATTENDED AS A STUDENT

- European Advanced School for the Philosophy of the Life Sciences, Konrad Lorenz Institute, Austria, Sep 2024.
- Summer School on the History of Knowledge, Lund University (LUCK), Sweden, Aug 2024.
- Workshop on Methods in the Philosophy of Science, University of Vienna, Austria, May 2023.
- Summer School on the History of the Life Sciences, Ischia, Italy, Jun 2022.
- Winter School on Quantitative Biology, International Center for Theoretical Physics, Trieste, Italy, Dec 2017.

TEACHING

Philosophy of Science for Medical Engineers, University of Copenhagen, Winter 2025 (with Karin Tybjerg). *Lectured and led discussions on:* General Philosophy of Science (including Popper and Kuhn); Philosophy of Big Data; Philosophy of AI; Philosophy of Measurement; Philosophy of Medical Technology; Ethical Theories; Epistemic Injustice; AI Ethics.

Responsible Conduct of Research (RCR), Duke University, Summer 2018 (with faculty from Duke School of Medicine). *Teaching Assistant (TA); led discussions on:* Ethics of Science; Academic Misconduct.

ACADEMIC SOCIETIES

Member, Society for Philosophy of Science in Practice (SPSP), 2023-present.

Member, International Society for the History, Philosophy, and Social Studies of Biology (ISHPSSB), 2024-present.

Member, Philosophy of Science Association (PSA), 2024-present.

Member, Society for Social Studies of Science (4S), 2024-present.

SERVICE TO THE COMMUNITY

Member of Editorial Team, Society for Philosophy of Science in Practice Newsletter, 2024-present.

REFERENCES

Karin Tybjerg, PhD

Associate Professor, Medical Museion and CBMR, University of Copenhagen
Email: karin.tybjerg@sund.ku.dk, Phone: +45 35 32 38 03

Sara Green, PhD

Associate Professor, History and Philosophy of Science, University of Copenhagen
Email: sara.green@ind.ku.dk, Phone: +45 35 33 46 32

Keld Alstrup Jensen, PhD

Professor, Chemistry and Microbiology, National Research Centre for the Working Environment
Email: kaj@nfa.dk, Phone: +45 20 76 47 31

Stefano Di Talia, PhD

Professor, Department of Cell Biology, Duke University
Email: stefano.ditalia@duke.edu, Phone: +1 919 684 8079