

# Patrick Landon Ferree

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## SPECIALIZATION

Philosophy of science, technology, and biomedicine • ethnography • science studies

## COMPETENCE

History of biomedicine

## EDUCATION

### University of Copenhagen

PhD Student in Medicine, Culture, and Society

Copenhagen, DK

in Progress

### Duke University School of Medicine

PhD in Cell Biology, Certificate in Cell and Molecular Biology

Durham, NC, USA

Apr 2022

### University of California, San Diego

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

La Jolla, CA, USA

Jun 2012

## EXPERIENCE

### University of Copenhagen

PhD Student, Advisor: Karin Tybjerg; Co-advisor: Sara Green

Copenhagen, DK

Mar 2024 - Present

- Affiliation: Medical Museion and Center for Medical Science and Technology Studies (MeST), Department of Public Health; and Novo Nordisk Foundation Center for Basic Metabolic Research (CBMR), Faculty of Health and Medical Sciences
- External member: Research Group for History and Philosophy of Biology and Health Science, Section for HPS, Department of Science Education, Faculty of Science
- Research: Ethnography and philosophy of single-cell and spatial omics
- Methods: Participant observation, interviews, content analysis, thematic analysis

### The National Research Centre for the Working Environment

Postdoctoral Researcher, Advisor: Keld Alstrup Jensen

Copenhagen, DK

Jun 2022 - Mar 2024

- Research: Occupational exposure to airborne particles
- Methods: Instrumental analysis, field campaigns, chamber studies

### Duke University School of Medicine

PhD Student, Advisor: Stefano Di Talia

Durham, NC, USA

Sep 2014 - Apr 2022

- Affiliation: Department of Cell Biology
- Methods: Quantitative *in vivo* confocal microscopy, computational image analysis
- Dissertation: *Temporal regulation of cell divisions in the embryo of Drosophila melanogaster*
- Committee: Michel Bagnat, Danny Lew, Bernard Mathey-Prevot, Nick Buchler

### University of Texas, El Paso

Research Technician, Advisor: Laura O'Dell

El Paso, TX, USA

Jan 2013 - Sep 2014

- Affiliation: Department of Psychology
- Research: Neuroscience of drug addiction in rats
- Methods: Survival surgeries, behavioral tests, qPCR

### Scripps Institute of Oceanography

Research Assistant, Advisor: Lynn Russell

La Jolla, CA, USA

Jan - Sep 2012

- Research: Chemistry and physics of atmospheric aerosols
- Methods: IR spectroscopy

### Articles

**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*, Volume 68, Issue 8, Oct. 2024, Pages 791–803, <https://doi.org/10.1093/annweh/wxae062>.

**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.

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.

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.

### Reviews

**P. L. Ferree**, “A History of Genomics Across Species, Communities and Projects”, *New Genetics and Society*, 44 (1), e2500749, May 2025, <https://doi.org/10.1080/14636778.2025.2500749> (**Book review**).

**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 (**Commentary**).

**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 (**Commentary**).

**P. L. Ferree**, V. Deneke, S. Di Talia, “Measuring time during early embryonic development”, *Seminars in Cell and Developmental Biology*, 2016, ISSN: 10849521 (**Review**).

### Manuscripts

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

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## PRESENTATIONS

### Talks

“From clocks to hourglasses: How studies of the cell cycle made timing a tractable problem in developmental biology”, part of the organized symposium: *Time in Developmental Biology*, International Society for the History, Philosophy, and Social Studies of Biology (ISHPSSB), Porto, Portugal, July 2025.

**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.

**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.

## Posters

“An ethnographic and philosophical study of single-cell biology”, International Society for the History, Philosophy, and Social Studies of Biology (ISHPSSB), Porto, Portugal, July 2025.

“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.

**P. L. Ferree**, C. Bunce, “The Questions of Developmental Biology”, The Society for Developmental Biology (SDB), Boston, MA, USA, Jul 2019.

**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.

## SCHOOL AND WORKSHOP PARTICIPATION

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Summer School on “Narratives of Disruption and Continuity in Science, Technology, and Society”, part of the DFG Research Training Group: Transformations of Science and Technology since 1800, Wuppertal, Germany, Sep 2025.

Summer School for Philosophy in Biology and Medicine (PhilInBioMed), University of Bordeaux, France, Jun 2025.

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

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*Guest Lecturer* (with Karin Tybjerg), Philosophy of Science for Medical Engineers, University of Copenhagen, 2025.

*Guest Lecturer* (with Tine Friis), Creative Processes for Academic Writing, University of Copenhagen, 2024-2025.

*Teaching Assistant* (with Duke faculty), Responsible Conduct of Research (RCR), Duke University, Summer 2018.

## SOCIETIES

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*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*, Danish Association for Science and Technology Studies, 2024-present.

## SERVICES TO THE COMMUNITY

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

## INTERVIEWS AND OTHER OUTPUTS

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“Practices of Classification in Conservation Science: Interview with Joeri Witteveen”, *SPSP Newsletter*, 23, Jun 2025.

“Practices of Validation in the Biomedical Sciences: Interview with Lara Keuck”, *SPSP Newsletter*, 22, Nov 2024, (with Stefano Canali).

## REFERENCES

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**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

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