

# Patrick Landon Ferree

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## PROFILE

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**AOS:** Philosophy of Science (esp. Biology, Biomedicine, Experiment, and Methods), History of Biomedical Sciences

**AOC:** Philosophy of Technology, Pragmatism (esp. Dewey and Rorty), History of Chemistry (esp. 20th-Century)

## EDUCATION

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### University of Copenhagen

PhD Student in History and Philosophy of Science

Copenhagen, DK  
in Progress

### Duke University School of Medicine

PhD in Cell Biology – Certificate in Cell and Molecular Biology

Durham, NC, USA  
Apr 2022

- 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

### University of California, San Diego

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

La Jolla, CA, USA  
Jun 2012

## EXPERIENCE

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### University of Copenhagen

PhD Student, Advisors: Karin Tybjerg & Sara Green

Copenhagen, DK  
Mar 2024 - Present

- Affiliation: Medical Museion, Department of Public Health; Program in Medicine, Culture, and Society
- Affiliation: Novo Nordisk Foundation Center for Basic Metabolic Research (CBMR)
- Member: Center for Medical Science and Technology Studies (MeST)
- Research: History and philosophy of biomedical science, particularly metabolism

### 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

### Copenhagen Institute for Futures Studies

Intern, Advisor: Bogi Eliassen

Copenhagen, DK  
Jan - Jun 2022

- Research: Futures of healthcare and biomedicine

### Duke University School of Medicine

PhD Student, Advisor: Stefano Di Talia

Durham, NC, USA  
Sep 2014 - Apr 2022

- Affiliation: Department of Cell Biology
- Research: Developmental time and cell-cycle regulation in the early fly embryo

### 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

### Scripps Institute of Oceanography

Research Assistant, Advisor: Lynn Russell

La Jolla, CA, USA  
Jan - Sep 2012

- Research: Chemistry and physics of atmospheric aerosols

## MANUSCRIPTS IN PROGRESS

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**P. L. Ferree**, C. Ribalta, A. CØ Jensen, A. Brostrøm, T. Berthing, K. A. Jensen, “Airborne nano/microplastics in the plastics recycling and manufacturing industry” (**Article - in Preparation**).

**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**).

## SCIENCE PUBLICATIONS

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**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*, 2024 (**Article - Accepted**).

**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 (**Preview**).

**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 (**Preview**).

**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”, *Dev 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**).

## SELECT TALKS AND POSTER PRESENTATIONS

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**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

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Summer School on 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.

Conference: Crossing the Disciplinary Boundaries of Physics, Bohr Centennial, Copenhagen, Denmark, Aug 2023.

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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TA, “Philosophy of Science, Medicine, and Technology”, University of Copenhagen, Winter 2025 (**Expected**).

## ACADEMIC SOCIETIES

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*Member*, Society for Philosophy of Science in Practice, 2023-present.

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

*Member*, Society for the Study of Measurement, 2024-present.

*Member*, History of Science Society, 2024-present.

*Member*, The Richard Rorty Society, 2019-present.

## 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**

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