

# Patrick Landon Ferree

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## AREAS OF SPECIALIZATION

Philosophy Science  
History and Philosophy of Biology and Biomedicine (e.g., Metabolism Research)

## OTHER EXPERTISE

Developmental Biology  
Exposure Science

## EDUCATION

<b>University of Copenhagen</b> PhD Student in History and Philosophy of Science	Copenhagen, DK in Progress
<b>Duke University School of Medicine</b> PhD in Cell Biology – Certificate in Cell and Molecular Biology • Dissertation: <i>Temporal regulation of cell divisions in the embryo of Drosophila melanogaster</i> • Committee: Stefano Di Talia, Michel Bagnat, Danny Lew, Bernard Mathey-Prevot, Nick Buchler	Durham, NC, USA Apr 2022
<b>University of California, San Diego</b> BA in Philosophy, BS in Chemistry, Minor in Political Science, <i>magna cum laude</i>	La Jolla, CA, USA Jun 2012

## EXPERIENCE

<b>University of Copenhagen</b> PhD Student, Advisors: Karin Tybjerg & Sara Green • Affiliation: Medical Museion, Department of Public Health • Affiliation: Novo Nordisk Foundation Center for Basic Metabolic Research (CBMR) • Member: Center for Medical Science and Technology Studies (MeST) • Research: History and philosophy of the biomedical sciences	Copenhagen, DK Mar 2024 - Present
<b>The National Research Centre for the Working Environment</b> Postdoctoral Researcher, Advisor: Keld Alstrup Jensen • Research: Occupational exposure to airborne particles	Copenhagen, DK Jun 2022 - Mar 2024
<b>Copenhagen Institute for Futures Studies</b> Intern, Advisor: Bogi Eliassen • Research: Futures of healthcare and biomedicine	Copenhagen, DK Jan - Jun 2022
<b>Duke University School of Medicine</b> PhD Student, Advisor: Stefano Di Talia • Affiliation: Department of Cell Biology • Research: Developmental time and cell-cycle regulation in the early fly embryo	Durham, NC, USA Sep 2014 - Apr 2022
<b>University of Texas, El Paso</b> 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
<b>Scripps Institute of Oceanography</b> Research Assistant, Advisor: Lynn Russell • Research: Chemistry and physics of atmospheric aerosols	La Jolla, CA, USA Jan - Sep 2012

## PUBLICATIONS

**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 - Forthcoming).

- 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**).

## 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 - Draft available upon request**).

## 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.

## ACADEMIC SOCIETIES

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

*Member*, Philosophy of Science Association, 2024-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 (HSS), 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

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### **Stefano Di Talia, PhD**

Associate Professor, Department of Cell Biology, Duke University

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