

# Patrick Landon Ferree

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## AREAS OF SPECIALIZATION

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Philosophy of Science in Practice • History and Philosophy of Biology • Biomedical Science and Technology Studies

## EDUCATION

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<b>University of Copenhagen</b> PhD Student in Philosophy of Science; Program in Medicine, Culture, and Society	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>	Durham, NC, USA Apr 2022
<b>University of California, San Diego</b> BS in Chemistry; BA in Philosophy; Minor in Political Science; <i>magna cum laude</i>	La Jolla, CA, USA Jun 2012

## EXPERIENCE

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<b>Technical University of Munich</b> Visiting Researcher, Department of Science, Technology, and Society Host: Sabina Leonelli; Chair of Philosophy and History of Science and Technology	Munich, DE Mar 2026 – Present
<b>University of Copenhagen</b> PhD Student, Department of Public Health, Medical Museion; Center for Medical Science and Technology Studies (MeST); Novo Nordisk Foundation Center for Basic Metabolic Research (CBMR) Advisor: Karin Tybjerg Co-advisor: Sara Green	Copenhagen, DK Mar 2024 – Present
<b>The National Research Centre for the Working Environment</b> Postdoctoral Researcher, Chemical Working Environment Advisor: Keld Alstrup Jensen	Copenhagen, DK Jun 2022 – Mar 2024
<b>Duke University School of Medicine</b> PhD Student, Department of Cell Biology Advisor: Stefano Di Talia	Durham, NC, USA Sep 2014 – Apr 2022
<b>University of Texas, El Paso</b> Research Technician, Department of Psychology Advisor: Laura O'Dell	El Paso, TX, USA Jan 2013 – Sep 2014
<b>Scripps Institution of Oceanography</b> Research Assistant, Aerosol Group Advisor: Lynn Russell	La Jolla, CA, USA Jan – Sep 2012

## ARTICLES

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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*, 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

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**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

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**P. L. Ferree**, "Cell atlas construction in big and small biomedicine" (**Article - In Preparation**).

**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**).

## TALKS

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**P. L. Ferree**, "Protocol Knowledge and the Invisible Technician", Organized symposium: "Scientific Protocols: the Making and Breaking of Scientific Norms", Philosophy of Science Association (PSA), San Diego, CA, USA, Nov 2026 (**Forthcoming**).

**P. L. Ferree**, "Make your own map: Cell atlas construction in big and small biomedicine", Frontiers of Open Science Colloquium, Technical University of Munich, Munich, Germany, Apr 2026 (**Forthcoming**).

**P. L. Ferree**, "The platformification of biomedical technology: A study of single-cell omics", Department of Science Education, Section for History and Philosophy of Science, University of Copenhagen, Copenhagen, DK, Sep 2025.

**P. L. Ferree**, "From clocks to hourglasses: Making time an epistemic object in developmental biology", Organized symposium: "Time in Developmental Biology", International Society for the History, Philosophy, and Social Studies of Biology (ISHPSSB), Porto, Portugal, Jul 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

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**P. L. Ferree**, “What is science studies?”, MAPS Retreat, Snekkersten, Denmark, Nov 2025.

**P. L. Ferree**, “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.

**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.

**P. L. Ferree**, C. Bunce, “The Questions of Developmental Biology”, 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.

**P. L. Ferree**, A. Momen-Roknabadi, S. Di Talia, “Precise timing of mitosis during *Drosophila* gastrulation”, Winter School on Quantitative Biology, International Center for Theoretical Physics, Trieste, Italy, Dec 2017.

## GRANTS AND AWARDS

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**Travel Award** (\$1,500) – Allen Institute Workshop, Apr 2026.

## TEACHING

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**Medicine in Context – Histories and Cultures of Biomedical Science** (PhD course) Copenhagen, DK  
Guest Lecturer, University of Copenhagen 2025

**Philosophy of Science for Medical Engineers** (BA course) Copenhagen, DK  
Lecturer (co-instructor), University of Copenhagen 2025 – 2026

**Creative Processes for Academic Writing** (PhD course) Copenhagen, DK  
Guest Lecturer, University of Copenhagen 2024 – 2025

**Responsible Conduct of Research** (PhD course) Durham, NC, USA  
Teaching Assistant, Duke University School of Medicine 2018

## FACILITATION

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“What makes science happen? Research Culture at CBMR” – Interactive workshop. MAPS Retreat, Snekkersten, Denmark, Nov 2025 (with C. Salkovskis).

## SELECT SCHOOL AND WORKSHOP PARTICIPATION

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Workshop on Cell Types: “Describe Your Neurons Like the Allen Institute”, Seattle, Washington, USA, Apr 2026.

HERSS Summer School on “Narratives of Disruption and Continuity in STS”, 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.

## INTERVIEWS

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“Methods in the Philosophy of Science: Interview with S. Veigl and A. Currie”, *SPSP Newsletter*, 24, Nov 2025.

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

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

## PUBLIC ENGAGEMENT

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*Measure Me* – Research contribution to a museum exhibition on the history of measurement apparatuses in medicine. Medical Museion, Copenhagen, Denmark, Nov 2025.

“Encoding Information in Waves and Patterns” – Public lecture. *Moogfest*, Durham, NC, USA, May 2018.

Science Speed Dating – Public science events. Duke INSPIRE, Durham, NC, USA, 2016 - 2018.

## SERVICES TO THE COMMUNITY

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

*Board Member*, Metabolic Research Association of Postdocs and Students (MAPS) at CBMR, 2024 - present.

*Reviewer*, *European Journal for Philosophy of Science*

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

*Member*, Danish Association for Science and Technology Studies (DASTS), 2024 - present.

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

## REFERENCES

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### **Karin Tybjerg, PhD**

Associate Professor, Medical Museion and CBMR, University of Copenhagen

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### **Sara Green, PhD**

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### **Keld Alstrup Jensen, PhD**

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

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