

DR. LISA SCHMORS

Computational Neuroscientist | Postdoctoral Researcher

EDUCATION

Ph.D. in Computer Science	2019-2024
University of Tübingen, Max Planck Research School for Intelligent Systems	
Supervisors: Prof. Dr. Philipp Berens, Prof. Dr. Fabian Sinz	
M.Sc. in Neuroscience	2016-2018
Carl von Ossietzky University Oldenburg	
Final grade : 1.26 (International : 90-100%)	
B.Sc. in Biology	2013-2016
Freie Universität Berlin	
Final grade : 1.5 (International : 90-100%)	

RESEARCH EXPERIENCE

Research Visit (DFG funded)	Oct-Dec 2025
University of Cape Town – Epilepsy diagnosis using AI	Cape Town, South Africa
Postdoctoral Researcher	2024-2025
Hertie Institute for AI in Brain Health, University of Tübingen	Tübingen, Germany
Ph.D. Researcher	2019-2024
Data Science, University of Tübingen,	Tübingen, Germany
International Research Stays	
• University of Waterloo, Canada (Fernweh Scholarship)	Oct-Dec 2017
Supervisor: Prof. Dr. Chris Eliasmith, Centre for Theoretical Neuroscience	
• University of Copenhagen, Denmark (ERASMUS Traineeship Scholarship)	Jul-Sep 2017
Supervisor: Prof. Dr. Christian Igel, Department of Computer Science	
• University of Birmingham, England (ERASMUS Study Scholarship)	Sep 2015-Jul 2016
Supervisor: Prof. Dr. Timothy Dafforn, Biothechnology	

PUBLICATIONS

- **Schmors, L.**, et al. (2025). TRACE: Contrastive learning for multi-trial time-series data. NeurIPS 2025. <https://doi.org/10.48550/arXiv.2506.04906>
- Zouridis, I.S.*, **Schmors, L.***, et al. (2025). Aversion encoding in lateral habenula cell types. *European Journal of Neuroscience*. <https://doi.org/10.1111/ejn.70302>
- **Schmors, L.***, Kotkat, A.H.*, Bauer, Y.*, et al. (2025). Effects of corticothalamic feedback depend on visual responsiveness. *iScience*. <https://doi.org/10.1016/j.isci.2025.112481>
- Zouridis, I.S., **Schmors, L.**, et al. (2024). Juxtacellular recordings from mouse locus coeruleus. *European Journal of Neuroscience*. <http://doi.org/10.1111/ejn.16368>
- Klug, J., **Schmors, L.**, et al. (2020). Neural rate difference model for high-frequency stimuli lateralization. *J. Acoustical Society of America*. <https://doi.org/10.1121/10.0001602>

PREPRINTS

- Akhmetali, M., **Schmors, L.**, Zhou, N., Reimer, J., Franke, K., Sinz, F.H. (2025) Pick Your Channel: Ultra-Sparse Readouts for Recovering Functional Cell Types. Under review at **ICLR 2026**.

TEACHING & MENTORING

Lecturer – Mathematical Modelling and Statistics (Course for Master) 2024

CERMEL (Centre de Recherches Médicales de Lambaréné) Gabon | **Excellence in Teaching Award**

Teaching Assistant – Essential Statistics (Course for Master) 2019–2023

University of Tübingen

Student Supervision

- Ph.D. Co-Supervision: Aleksejs Timčenko, Hertie Institute for AI in Brain Health (Jan 2025–Present)
- Master's Thesis: Don Gwese, Data Science Master, University of Cape Town (Nov 2025–Present)
- Master's Thesis: Nicholas Cimaszewski, Neural Information Processing Master (2023)
- Lab Rotations: Aleksejs Timčenko, Neural Information Processing Master (2023/24)
- Lab Rotation: Lok Him Leung, Neural Information Processing Master (2024/25),

CONFERENCE PRESENTATIONS

- **Invited Talk:** Deep Learning Indaba 2025, NeuroAI Workshop (Kigali, Rwanda)
- **Invited Talk:** Tübingen Talks Tech: Science Slam AI Edition 2025 (Germany)
- **Talk:** Inauguration of the Hertie Institute for AI in Brain Health (Tübingen, Germany)
- **Talk:** Thalamus Anatomy and Connectomics Conference 2023 (Tübingen, Germany)
- **Poster:** AREADNE, Conference for Encoding and Decoding of Neural Ensembles, 2024 (Greece)
- **Poster:** ERM, European Retina Meeting, 2023 (Germany)
- **Poster:** COSYNE, Conference for Computational and Systems Neuroscience, 2022 (Lisbon)

PROFESSIONAL TRAINING & DEVELOPMENT

- Simons Computational Neuroscience Imbizo – 3-week intensive summer school (Apr 2023, South Africa)
- Farm Operations & Sales at Te Puna Orchard – Work and Travel (Jan-May 2019, New Zealand)
- Copenhagen Summer University – "Deep Learning for Data Analytics" (Aug 2017, Denmark)
- Summer School on Graphical Models – "Image Analysis and Computer Graphics" (Jul 2017, Sweden)
- Interdisciplinary College – "Creativity and Intelligence in Brains and Machines" (Mar 2017, Germany)

SERVICE & LEADERSHIP

Co-Host & Producer, "I AM SCIENTIST" Podcast 2023–2025

PhD experiences and mental health in academia

Event Organization

- Workshop Clinical Neuroscience & Artificial Intelligence, University of Cape Town (2025)
- Robust Learning Symposium, Max Planck Institute for Intelligent Systems (2020)
- Neuroscience Career Day, University of Oldenburg – Organizer & Moderator (2017, 2018)

Committees 2016–2018

Student Representative, Dept. of Neuroscience, University of Oldenburg

AWARDS & FUNDING

- **Funding for Academic Exchange with Africa** – University of Tübingen €5,400 (2025)
- **Excellence in Teaching Award** – University of Tübingen (2024)
- **Fernweh Scholarship** – University of Oldenburg €1,000 (2017)
- **ERASMUS Scholarship for Traineeships Abroad** – European Union €1,000 (2017)
- **SMART START Training Program** – Bernstein Network for Neuroscience, €1,600 (2016)
- **ERASMUS Scholarship for Study Abroad** – European Union €2,400 (2015)