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, Biotechnology

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)
- Masterʻs Thesis: Don Gwese, Data Science Master, University of Cape Town (Nov 2025-Present)
- Master's Thesis: Nicholas Cimaszewski, Neural Information Processing Master (2023)
- Lab Rotation: 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, Australia)
- 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

- **Travel grant** (Conference for Systems Neuroscience) – COSYNE €1,500 (2026)
- **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)