

# DR. LISA SCHMORS

Computational Neuroscientist | Postdoctoral Researcher

## EDUCATION

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

## RESEARCH EXPERIENCE

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

## PUBLICATIONS

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- 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

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- 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

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**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

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- **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

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- 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

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**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

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- **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)