

EMMA PETERS

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Neuroscientist with a PhD from the University of Bern and experience designing and conducting complex human sleep studies. Specialized in structured protocols, data quality, and clear scientific documentation. Experienced in integrating complex datasets and coordinating collaborators to deliver high-quality, publication-ready work. Detail-oriented, organized, creative, and independent.



CORE COMPETENCIES

Documentation & Quality Control

- Scientific and technical document review and editing
- Ensuring consistency between data, analysis, and reporting
- Development of SOPs, templates, and documentation standards

Research & Data Analysis

- Experimental design and protocol development
- Statistical analysis and interpretation of human data
- Management of complex physiological and behavioral datasets

Project & Stakeholder Coordination

- End-to-end project management from concept to publication
- Coordination across collaborators, junior researchers, and technical systems
- Mentoring and supervision of student researchers

Technical Skills

- MATLAB, Python
- EEG/PSG data acquisition and analysis (EEGlab)
- Non-invasive sensory stimulation

ACADEMIC EMPLOYMENT

Research Associate/PhD Researcher | Feb 2022 – Jun 2026, University of Bern, Switzerland

- Designed and executed multiple human experimental studies from concept to publication
- Developed and reviewed scientific documents for data acquisition and analysis workflows
- Coordinated contributions across collaborators, junior researchers, and technical systems
- Supervised and mentored BSc and MSc students
- Managed project timelines, resources, and budgeting across multiple studies

Lecturer | Feb 2022 – Jan 2026, University of Bern, Switzerland

- Developed and delivered a full 5 ECTS university course on sleep and dreaming
- Translated complex scientific concepts into clear, structured, and accessible content

Research Assistant and Internship Trainee | Aug 2019 – Dec 2021, Donders Institute, Sleep and Memory Lab, Nijmegen, the Netherlands

- Experimental design, PSG, and behavioral data collection and analysis in sleep and cognition research
- Contributed to scientific reporting and preparation of research outputs

EDUCATION

- **PhD Neuroscience of Dreaming** | Feb 2022 – Jun 2026 University of Bern: summa cum laude
- **MSc Cognitive Neuroscience** | Sept 2019 – Aug 2021 Radboud University: Plasticity and Memory
- **BSc Medical Biology** | Sept 2015 – July 2019 Radboud University, Nijmegen, the Netherlands

PUBLICATIONS

Published in peer-reviewed journals including Physiological Reviews, Philosophical Transactions of

the Royal Society B, Consciousness and Cognition, Dreaming, Brain Sciences, Medical Hypotheses, Somnologie, and the International Journal of Dream Research.
Full publication list: emma-peters.com/publications

ACHIEVEMENTS AND AWARDS

- University of Bern, Digitalization Grant | 2026
- Poster Prize Nominee DGSM, Hannover, Germany | 2025
- Swiss National Science Foundation Grant: The Embodied Dreaming Project | 2021
- Major contributing researcher: study design, conceptualization, and writing
- Swiss Government Excellence Scholarship (declined by me) | 2021

RESEARCH DEVELOPMENT

- 1.5-week Research visit, Neuropsychiatry of sleep and dreams, Basic Neurosciences and Psychiatry, Geneva, Switzerland | May 2025
- 3-week Research visit, The Dream & Nightmare Laboratory, Sacré-Coeur Hospital, Montreal, Canada | Jun 2023

TEACHING EXPERIENCE

- Guest Lecture: The Science of Dreaming (50+ students), Trent University, Canada | 2025
- Main Lecturer and Developer: The Science of Dreaming (BSc, 5 ECTS, 30+ students), University of Bern, Switzerland | 2024
- Teaching Assistant and Lecturer: Sport und Schlaf (BSc, 30+ students), University of Bern, Switzerland 2022-2026

ACADEMIC SERVICE

Ad-hoc reviewer:

PLOS ONE, Scientific Reports, Nature and Science of Sleep, Neuropsychologia, International Journal of Dream Research, Virtual Reality, Dreaming, Journal of Physiological Anthropology, Psychology of Consciousness, Journal of Sleep Research, and British Journal of Psychology

Co-Editor:

- Routledge: Handbook of Philosophy and Science of Dreaming | TBD

Conference & Scientific Community Roles:

- Co-Founder and coordinator. Lucid Lab Bern
- Main Organization. Lucid Dreaming Symposium Bern 2025, Switzerland
- Co-chair. Sleep Symposium, SGS Conference 2024, Zürich, Switzerland
- Co-chair. 'Non-invasive stimulation in sleep' Symposium, DGSM 2024, Essen, Germany

SELECTED CONFERENCE ACTIVITIES

Presented research at international institutions and conferences including Massachusetts Institute of Technology, University of Cambridge, Donders Institute for Brain, Cognition and Behaviour, IMT School for Advanced Studies Lucca, as well as IASD, ASSC, DGSM, SSSSC, and SGS.

Full list: emma-peters.com

LANGUAGES

- Dutch: Native
- English: C2 (fluent)
- German: B2 (upper intermediate)
- French: B1 (intermediate)

MEDIA OUTREACH

- The Guardian, Scientific American, SRF, Psychologie Magazine, KIJK Magazine, Newstalk, NSW0, The New Yorker, Future Mechanics, ARD Wissen

For all media, see www.emma-peters.com