Ondracek Curriculum Vitae 2023

PERSONAL INFORMATION

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Full Name: Janie Michelle Ondracek Contact: Technical University of Munich

Chair of Zoology, Liesel-Beckmann-Str. 4,

85354 Freising, Germany

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Date of Birth: 12.04.1982

Nationality: Switzerland and USA

Languages: English (native), German (B2.2/C1)

Profile: My research investigates sleep-dependent memory consolidation in non-mammalian animal models. I use an interdisciplinary approach that incorporates diverse methods such as:

- Neurophysiology to examine brain dynamics during learning and sleep
- Slice electrophysiology to map large-scale brain dynamics
- Behavioral paradigms to study natural learning
- Molecular and genetic tools to perturb neural circuits in real time
- Computational approaches to analyze behavior and brain state network dynamics

EDUCATION

2020- Habilitation in Zoology

Technical University of Munich, Munich, Germany

2014 Dr. sc. ETH Zurich – Physics

ETH Zurich, Zurich, Switzerland

PhD Supervisor: Prof. Dr. Richard H.R. Hahnloser

2009 MSc – Neural Systems and Computation

University of Zurich, Zurich, Switzerland

2005 **BA – Neuroscience**

Lawrence University, Appleton, Wisconsin, USA

CURRENT POSITION

2017- Lecturer and Postdoctoral Researcher

Technical University of Munich, Chair of Zoology, Freising, Germany

PREVIOUS POSITIONS

2013-2017 SNSF Postdoctoral Research Fellow

MPI for Brain Research, Frankfurt, Germany

2009-2013 **PhD student**

Institute of Neuroinformatics, Zurich, Switzerland

2005-2007 Research Associate

Rosalind Franklin University of Medicine and Science, North Chicago, IL, USA

CAREER BREAKS

07.04.2020 - 5.10.2020 Parental leave (6 months) 15.07.2022 - 17.08.2023 Parental leave (13 months)

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RESEARCH FELLOWSHIPS AND AWARDS

2021-2022: Dr.-Ing. Leonhard Lorenz-Stiftung - Research Grant

Technical University of Munich, Freising, Germany

2021-2022 Bernstein - Computational Neuroscience - Startup Funds

Technical University of Munich, Freising, Germany

2021-2022 International Emerging Actions (CNRS) - Mobility Fellowship

Technical University of Munich, Freising, Germany

2020-2021: Bayerisch-Französisches Hochschulzentrum - Mobility Fellowship

Technical University of Munich, Freising, Germany

2019 Grass Foundation - Independent Investigator Fellowship

Technical University of Munich, Freising, Germany

2019-2021 Daimler and Benz Foundation - Postdoctoral Scholarship

Technical University of Munich, Freising, Germany

2018-2022 German Research Foundation (DFG) - Research Grant

Technical University of Munich, Freising, Germany

2014-2016 SciMento Hessenweit - Mentoring Program für Wissenschaftlerinnen

MPI for Brain Research, Frankfurt, Germany

2013-2014 Swiss National Science Foundation - Early Postdoc Mobility Fellowship

ETH Zurich, Zurich, Switzerland

2004-2005 Thomas J. Watson Fellowship

Lawrence University, Appleton, Wisconsin, USA

RESEARCH SUPERVISION

MSNE Program Mentor: (2020-) Master of Science in Neuroengineering program, Department of Electrical and Computer Engineering, Technical University of Munich

N=2

Technical University of Munich, Freising, Germany (2017-present)

PhD Students: N=1
Bachelor Students: N=5
Master Students: N=2
Research Internships: N=20

MPI for Brain Research, Frankfurt, Germany (2013-2017)

Research Internships: N=7

Member of PhD thesis committees:

• 2022 - G. Khot, Radboud University, Nijmegen, Netherlands

• 2022 - H. Yeganegi, LMU, Munich, Germany (1st examiner)

Selected Student Projects:

- Identifying sharp wave-ripple activity in avian brain slices using multielectrode arrays
- AAV-mediated delivery of optogenetic constructs to the avian brain
- Spike sorting approaches for multichannel recordings from the avian brain
- Serotonin and parvalbumin immunohistochemistry in the avian brain
- Using DeepLabCut for 3D markerless pose estimation in zebra finches
- Electrophysiological investigation of sleep and behavior in embryonic chickens
- Mathematical modeling of surfacing behavior in sleeping turtles

REVIEWING ACTIVITIES

Expert Reviewer: Science

Expert Reviewer: Journal of Neural Engineering **Expert Reviewer:** Brain Structure and Function

Expert Reviewer: Journal of Smart Materials and Structures

Web of Science profile: https://www.webofscience.com/wos/author/record/AAA-6135-2021

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TEACHING EXPERIENCE

Academic courses - acting as course coordinator and lecturer (N=4)

2021- Neuroethology of Predation and Escape, Technical University of Munich

2021- Rhythms of the Brain, Technical University of Munich
 2018- Neuroscience of Vision, Technical University of Munich
 2018- Neurobiology of Birds, Technical University of Munich

Academic courses - acting as lecturer (N=7)

2018-	Principles of Neurobiology, Technical University of Munich
2018-	Sensory Physiology, Technical University of Munich

2017 Advanced Methods in Neurophysiology, Technical University of Munich

2009-11 Computational Neuroscience, ETH Zurich

2010-11 Laboratory Animal Science (Instructor, Avian Section), ETH Zurich

2010 Neuroscience: From Networks to Systems, ETH Zurich

2009 Auditory Informatics, ETH Zurich

Certificates: ProLehre Intensiv: Certificate for Teaching for the Bavarian Universities (2020)

INVITED CONFERENCES AND PRESENTATIONS

Faculty Interviews (N=2)

2018 Tenure Track Professor, Neurobiology of Vocal Communication, University of Tübingen

2018 Tenure Track Professor, Digital Health and Behaviour Monitoring, Technical University of Munich

Invited Conference Presentations (N=5)

- 2019 Daimler and Benz Foundation Alumni Meeting, Ladenburg, Germany
- 2019 European Birdsong Meeting, Cappo Caccia, Italy
- 2018 Avian Cognitive Neuroscience, Ruhr University Bochum, Bochum, Germany
- 2018 A Comparative Approach to Cracking Circuit Function II, Janelia Research Campus, Ashburn, USA
- 2017 Neuroethology Satellite Symposium, German Zoological Society, Bielefeld, Germany

Scientific Colloquiums (N=9)

- 2019 Flash Talk, Marine Biological Laboratory, Woods Hole, USA
- 2019 Grass Laboratory Trustee Meeting, Woods Hole, USA
- 2018 Biopsychology Research Colloquium, Ruhr University Bochum, Bochum, Germany
- 2018 GSN Neurolunch, Ludwig-Maximilians-University Munich, Munich, Germany
- 2018 Loren Frank Lab, Center for Integrative Neuroscience, UC San Francisco, USA
- 2018 Life Sciences and Computation Meetup, Technical University Munich, Munich, Germany
- 2017 Neurolunch Talk, Cortexlab, University College London, London, UK
- 2016 Georges Lab, University of Canberra, Canberra, Australia
- 2016 Lizard Lab, Macquarie University, Sydney, Australia

INTERNATIONAL AND NATIONAL RESEARCH COLLABORATIONS

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N. Giret Neuroscience Paris-Saclay Institute, Université Paris Sud, France

A. Leblois
 M. Shein-Idelson
 R. Hahnloser
 M. A. Tosches
 D. Vallentin
 Bordeaux Neurocampus, Université de Bordeaux, France
 Sagol School for Neuroscience, Tel-Aviv University, Israel
 Institute of Neuroinformatics, ETH Zurich, Switzerland
 Columbia University, Department of Biological Sciences USA
 Max Planck Institute for Biological Intelligence, Germany

B. Wolfrum TUM Department of Electrical and Computer Engineering, **Germany**

SOCIETY MEMBERSHIP

2018- Bernstein Center for Computational Neuroscience - Munich, Germany

2006- Society for Neuroscience, USA

2010- Federation of European Neuroscience Societies, European Union

2017- German Neuroscience Society, Germany2017- German Zoological Society, Germany