



## RESEARCH EXPERIENCE

- 08/2023 - today      **Group leader (W2 Professorship)**  
“Sensory Dynamics and Behaviour laboratory”  
Institute for Experimental Epileptology and Cognition Research, University of Bonn, Germany
- 08/2015 - 07/2023      **Postdoctoral Researcher**  
Sensory Circuits and Neurotechnology Laboratory, The Francis Crick Institute, London, UK
- 08/2017 - 07/2021      **Research Associate**  
Department of Neuroscience, Physiology and Pharmacology, University College London, UK
- 04/2009 – 10/2009      **Student Assistant**  
Department of Zoology and Animal Physiology RWTH Aachen University
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## EDUCATION

- 03/2015      **PhD in Neuroscience** (Dr. rer. nat)  
RWTH Aachen University, Germany  
Grade: *summa cum laude* (1.0)  
Dissertation:  
*Physiological investigation of chemosensory mechanisms in the mammalian olfactory and vomeronasal system*
- 10/2005 - 03/2011      **Biology studies (Diploma)**  
RWTH Aachen University, Germany  
Grade: *good* (1.7)  
Diploma thesis:  
*Biochemical analysis of the expression of chloride transporters in the chicken auditory brainstem throughout the embryonic development*
- 09/1995 - 05/2003      **Abitur**  
St. Josef Gymnasium, Biesdorf, Germany, Grade: *good* (2.3)
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## GRANTS AND AWARDS

- 2024      **DFG** | Research Unit 5424 “Modulation of Olfaction”
- 2023      **ERC Starting Grant** | “TempCOdE”, European Research Council
- 2015      **Research Fellowship** | German Research Foundation (DFG)
- 2015      **Travel award** | 11th Meeting of the German Neuroscience Society, Göttingen
- 2014      **Poster award** | Behaviour meets Biochemistry, Biochemical Society, London, UK
- 2014      **Travel award** | Behaviour meets Biochemistry, Biochemical Society, London, UK
- 2013      **Housing Award** | Association for Chemoreception Sciences, Huntington, USA

## TEACHING AND SUPERVISIONS

### Courses and lectures

2024	Lecture series on “Motor systems” and “Learning and Memory” Institute of Physiology, Medical Faculty, University of Bonn
2024	Lecture on “Chemical senses” Master of Neuroscience, University of Bonn, Germany
2024	Course lecturer “Electrophysiology” Bonn International Graduate School for Neuroscience (BIGS)
2019	Undergraduate lecture “NEUR005: Olfaction” UCL Faculty of Life Sciences, University College London, UK
2019	“Meet a researcher” programme UCL Faculty of Life Sciences, University College London, UK
2011 – 2015	Course lecturer “Tierphysiologisches Grundpraktikum“ RWTH Aachen University, Aachen, Germany
2012 – 2015	Course lecturer “ Blockpraktikum Neurophysiologie“ RWTH Aachen University, Aachen, Germany

### Academic supervision

currently	Supervisor of one Postdoc, three Ph.D. students, 1 MSc student, 1 BSc student
currently	Faculty member: International Max Planck Research School "Brain and Behavior"
currently	Faculty member: Bonn International Graduate School for Neuroscience (BIGS)
2013 – 2023	2nd supervisor of a PhD student, mentorship of two PhD students (Schaefer lab) 1st supervisor of two MSc students, 2nd supervisor of a BSs student (Spehr lab)

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## ADMINISTRATION AND SCIENTIFIC LEADERSHIP

2022	EMBO Laboratory Leadership Programme, virtual
2021	Postdoc to PI Programme, Francis Crick Institute, London, UK
2018	Postdoc Symposium Co-Organiser, Francis Crick Institute, London, UK
2017-2019	Postdoc Representative, Francis Crick Institute, London, UK
since 2017	Participation in recruitment and interview panels (BSc, MSc, PhD, Postdoc)
2016	Unconscious Bias Workshop, Francis Crick Institute, London, UK

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## PUBLIC ENGAGEMENT AND OUTREACH

2019	Fundraiser   “ <i>Creating the future</i> ”, Francis Crick Institute, London, UK
2019	Fundraiser   “ <i>You are electric</i> ”, Francis Crick Institute, London, UK
2019	Video Interview   “ <i>Scientifica meets...</i> ”, published on the Scientifica website
2017	Public event   “ <i>Bright lights, Crick circuits</i> ”, Francis Crick Institute, London, UK

## MAJOR COLLABORATIONS

Martin Schwarz | University of Bonn Medical Center, Germany

Sophie Steculorum | MPI for Metabolism Research, Cologne, Germany

Alexander Fleischmann | Brown University, Providence, USA

Izumi Fukunaga | Okinawa Institute of Science of Technology, Okinawa, Japan

Caetano Reis e Sousa | Francis Crick Institute, London, UK

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## CONFERENCES AND SYMPOSIA

### Invited talks

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| 2024 | International Symposium on Olfaction and Taste   Reykjavik, Iceland<br>Title: "Mice can discriminate odour source distance using plume temporal dynamics"                                      |
| 2023 | European Chemoreception Research Organization meeting   Nijmegen, NL<br>Title: "Mice can extract spatial information from temporal dynamics of the odour landscape"                            |
| 2021 | Cold Spring Harbor Laboratories Seminar Series   CSHL, USA<br>Title: "Fast odour dynamics are encoded in the olfactory system and guide behaviour"   |
| 2019 | Brains and Roses conference, College de France   Paris<br>Title: "Sub-sniff temporal odour information in the olfactory bulb sensory input layer"  |
| 2019 | Zoological seminar series, RWTH Aachen University   Aachen, Germany<br>Title: "Perception and representation of temporally structured odour stimuli in the mouse olfactory bulb"               |
| 2014 | SPP 1392: Integrative Analysis of Olfaction meeting   Oldenburg, Germany<br>Title: "Physiological characterization of formyl peptide receptor expressing cells in the mouse vomeronasal organ" |
| 2019 | Behaviour meets Biochemistry meeting   London, UK<br>Title: "Revisiting the labelled line coding model for the vomeronasal system with a set of defined stimuli"                               |

### Poster presentations

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| 2013-2021        | German Neuroscience Society Meeting                    |
| 2020             | Annual NeuroNex Investigator Meeting                   |
| 2020, 2012       | International Symposium on Olfaction and Taste         |
| 2018, 2014       | Society for Neuroscience Annual meeting                |
| 2017, 2016, 2014 | Association for Chemoreception Sciences Annual meeting |
| 2014             | Behaviour meets Biochemistry Meeting                   |
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## MEMBERSHIPS OF SCIENTIFIC SOCIETIES

Association for Chemoreception Sciences (AChemS)

European Chemoreception Research Organization (ECRO)

Society for Neuroscience (SfN)

German Neuroscience Society (NWG)

## ADDITIONAL QUALIFICATIONS

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| 2024 | Selection symposium for the “Paul Ehrlich & Ludwig Darmstaedter Early Career Award 2025” |
| 2024 | Shortlisted (2. Listenplatz) for a W3 Professorship at Saarland University               |
| 2024 | Shortlisted and interviewed for a W2 Professorship at LMU Munich                         |
| 2023 | Offer for a Tenure-Track Professorship at University of Bremen                           |
| 2022 | Sponsored for an ERC StG by the European Neuroscience Institute in Göttingen             |
| 2021 | Shortlisted and interviewed for the NRW Return Fellowship                                |

*Tobias Ackel*

Alfter, 15.10.2024