Chris J. Dallmann

Neurobiology and Genetics, University of Würzburg
Am Hubland, 97074 Würzburg, Germany
e-mail: chris.dallmann(at)uni-wuerzburg.de
www.chrisjdallmann.com

Research Focus

I study how neural circuits enable animals to control their limbs flexibly across behaviors, focusing on how descending commands and sensory feedback shape movement. My work in *Drosophila* combines connectomics, calcium imaging, optogenetics, and quantitative behavioral analysis.

Positions

2023–present	**Postdoctoral Fellow** Neurobiology and Genetics, University of Würzburg, Germany (Jan M. Ache)
2018–2023	**Postdoctoral Fellow** Neurobiology and Biophysics, University of Washington, USA (John C. Tuthill)
2013–2018	**Doctoral Researcher** Biological Cybernetics, Bielefeld University, Germany (Josef Schmitz)
2009, 2012	**Visiting Student Researcher** Integrative Biology, University of California at Berkeley, USA (Robert J. Full)

Education

2019	**PhD** (Dr. rer. nat., Neuroscience), *summa cum laude* Biological Cybernetics, Bielefeld University, Germany
2013	**MSc in Systems Biology of Brain and Behavior**, highest grade Bielefeld University, Germany
2011	**BSc in Biomimetics** University of Applied Sciences Bremen, Germany

Fellowships and Awards

2023–2025	Marie Skłodowska-Curie Postdoctoral Fellowship
2020–2022	German Research Foundation (DFG) Postdoctoral Fellowship
2018–2020	Raymond and Beverly Sackler Postdoctoral Fellowship
2016	Best Talk Award, Arthropod Neuroscience Network Meeting
2013	German National Scholarship (Deutschlandstipendium)

Publications

19 peer-reviewed publications, 2 manuscripts in revision, 1 manuscript submitted
Google Scholar (October 2026): h-index 16, >820 citations; ORCID: 0000-0002-4944-920X

Selected Publications

Dallmann CJ, Luo Y, Agrawal S, Mamiya A, Chou GM, Cook A, Sustar A, Brunton BW, Tuthill JC (2025). Selective presynaptic inhibition of leg proprioception in behaving *Drosophila*. *Nature* 647, 445–453. doi:10.1038/s41586-025-09554-2

Dallmann CJ, Mukthar Iqbal F, Liebscher S, Erginkaya M, Liessem S, Sauer EL, Soyka H, Cascino-Milani F, Goldammer J, Ito K, Ache JM (2026). A dedicated brain circuit controls forward walking in *Drosophila*. bioRxiv 2026.01.04.697356. doi:10.64898/2026.01.04.697356

Dallmann CJ*, Karashchuk P*, Brunton BW, Tuthill JC (2021). A leg to stand on: computational models of proprioception. *Current Opinion in Physiology* 22, 100426. *Co-first authors. doi:10.1016/j.cophys.2021.03.001

Invited Talks and Seminars

2027	Göttingen Meeting of the German Neuroscience Society, Göttingen, Germany (scheduled)
2026	Leibniz Institute for Neurobiology, Germany; Imperial College London, UK; International Congress for Neuroethology, Vancouver, Canada; Bielefeld University, Germany
2025	Computing Cords: Sensorimotor Control by Nerve Cord Circuits Across Species, Janelia Research Campus, USA (substitute for Jan M. Ache)
2024	University of Cologne, Germany; Arthropod Neuroscience Network, virtual
2023	Society for Integrative and Comparative Biology Annual Meeting, Austin, USA
2022	University of Würzburg, Germany

Competitively Selected Oral Presentations

2024	The Brain Conference: Circuits for Movement, Rungsted Kyst, Denmark
2023	Motor Control: Spinal Circuits and Beyond, St. Andrews, UK
2021	CSHL Neurobiology of Drosophila Meeting, virtual
2017	German Zoological Society Annual Meeting, Bielefeld, Germany

Mentoring and Leadership

- Mentored 2 PhD students and co-supervised 11 additional students on a day-to-day basis (4 MSc and 3 BSc thesis students, 3 rotation students, 1 research assistant)
- Completed a two-year PI leadership program, University of Würzburg
- Reviewed 19 manuscripts for journals including *Nature Communications*, *Current Biology*, *Current Opinion in Neurobiology*, and *eLife*
- Abstract reviewer for *COSYNE 2025*
- Co-organized *NeuroDoWo 2016*, an annual national neuroscience conference for PhD students

Teaching

2025–present	Guest lecture on neural control of movement, MSc course *Neurogenetics of Behavior*, University of Würzburg
2023–present	Guest lecture and practical course on connectomics, BSc course *Neurobiology*, University of Würzburg
2021	Guest lecture on proprioception, BSc course *Neurobiology*, University of Washington
2014–2016	Teaching Assistant, MSc course *Control of Behavior* and BSc course *Neural Mechanisms of Behavior*, Bielefeld University
2011	Teaching Assistant, BSc course *Locomotion*, University of Applied Sciences Bremen

Outreach

2024	2 public talks with Q&A (Brain Awareness Week, Unibund Würzburg)
2021	Designed experiments for high school students, Rainier Scholars program, University of Washington
2016, 2019	Interview for *The New York Times* (2016) and *Inside JEB* (2019)
2012–2015	Mentored underrepresented high school students via TABULA e.V., a local non-profit association for educational equity