

ANNA LISA STÖCKL

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CURRENT & PREVIOUS POSITIONS

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| since 6/2022 | Junior Group Leader , Dept. of Biology & Centre for the Advanced Study of Collective Behaviour & Zukunftskolleg, University of Konstanz |
| 3/2018 – 5/2022 | Research fellow , Chair of Zoology II, Würzburg University, GER |
| 2/2017 – 2/2018 | Post-doctoral researcher , Dr. P. Ala-Laurila, Aalto University, FIN <i>The role of correlated activity in neural coding in the mouse retina</i> |
| 5/2012 – 1/2017 | PhD student , Prof. E. Warrant, Vision Group, Lund University, SE Thesis: <i>Neural adaptations for dim light vision in hawkmoths</i> |
| 4/2011 – 4/2012 | Master student , Prof. J. Benda, BCCN, Munich, GER Thesis: <i>Coding of communication signals in the electrosensory system of weakly electric fish</i> |
| 2/2010 – 3/2011 | Research assistant , Prof. T. Gollisch, MPI Neurobiology, Munich, GER <i>Multi-electrode array recordings of amphibian retinal ganglion cells</i> |
| 6/2009 – 9/2009 | Research student , Prof. D.-E. Nilsson, Vision Group, Lund University, SE <i>Modelling of the pacemaker interactions of a box jellyfish</i> |
| 2/2009 – 5/2009 | Bachelor student , Prof. J. Wittbrodt, EMBL, Heidelberg, GER Thesis: <i>Manipulating the proliferation control of Müller glia cells</i> |

EDUCATION

Sweden does not award PhD grades, † best: 1.0, fail: 5.0

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| 5/2012 – 12/2016 | PhD , Biology Department, Lund University, SWE (thesis defense: 04/12/2016, degree awarded 21/12/2016 *) |
| 10/2009 – 1/2012 | Master sc. Neuroscience , Ludwig Maximilian University Munich, GER (1.0 [†]) |
| 10/2006 – 5/2009 | Bachelor sc. Biology , Ruprecht Karl University Heidelberg, GER (1.1 [†]) |
| 08/1997-4/2006 | Abitur , Leininger Gymnasium Grünstadt, GER (grade: 1.0 [†]) |

AWARDS AND DISTINCTIONS

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| since 2020 | Member of the Young Academy of the Bavarian Academy of Sciences and Humanities |
| 2018 | Young Investigator Award , International Society for Neuroethology (ISN) Winner Young Scientist Seminar Series , iBiology |
| 2017 | KlarText! Science Communication Award , Klaus Tschira Foundation Capranica Prize , by the ISN Young Scientist Award , Society for Experimental Biology Best PhD Thesis 2016-2017 Prize , Science Faculty, Lund University |
| 2016 | Heiligenberg Award , International Society for Neuroethology |
| 2014 | Winner Famelab-Germany national final (competition for science communication) |
| 2012 | Winner Neurovision Film Contest (greatest informational value), Munich, GER |
| 2011 | Selected participant at the 61. Lindau Nobel Laureate Meeting |
| 2009–2012 | Scholarship recipient, Max Weber Stiftung , Member of the Elitenetzwerk Bayern |
| 2008–2012 | Scholarship recipient, Studienstiftung des Deutschen Volkes |

FUNDING

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| 2022 – 2027 | Emmy Noether grant, Deutsche Forschungsgemeinschaft | 1 900 000 |
| | Freigeist Fellowship , Volkswagenstiftung – <i>declined</i> | 1 600 000 |
| 2022 – 2026 | Zukunftskolleg 5-year Fellowship | 175 000 |
| 2021 – 2022 | Maria-Weber-Grant , Hans Böckler Foundation | 40 000 |
| 2020 – 2023 | Bavarian Academy of Sciences and Humanities research stipend | 36 000 |
| 2020 – 2023 | Deutsche Forschungsgemeinschaft „Sachbeihilfe“ research grant | 238 000 |
| 2019 | Bayerische Forschungsallianz international cooperation grant | 3900 |
| 2018 – 2020 | VolkswagenStiftung Das Experiment! research grant | 99 900 |
| 2018 | PostDoc Plus research grant, Graduate School of Life Sciences Würzburg | 4000 |
| 2016 | Royal Swedish Academy of Sciences, Lars Hierta Foundation travel grant | 4000 |
| 2008 – 2012 | Studienstiftung des Deutschen Volkes full scholarship | 45 000 |
| | | EUR |

PROFESSIONAL RESPONSIBILITIES

Editorial board member & review editor at Frontiers in Neural Circuits

Member of the advisory board of the Journal of Comparative Physiology A

Regular peer reviewer for: Current Biology, PLOS Computational Biology, Proceedings of the Royal Society B, Journal of Experimental Biology, Biology Letters, Journal of Comparative Physiology A

Review of grant proposals: Natural Environment Research Council (UK), Deutsche Forschungsgemeinschaft (DE), Studienstiftung des Deutschen Volkes (DE)

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| since 2022 | Elected member of the Council of the International Society for Neuroethology |
| 2022 | Review panel , Young Investigator Award, International Society for Neuroethology |
| since 2021 | Speaker of the Section Neurobiology of the DZG (German Zoological Society) |
| since 2020 | Co-speaker, Science Communication group , Young Bavarian Academy of Sciences |
| | Member of the Student Selection Committee, Studienstiftung des Deutschen Volkes |
| | Reviewer for the KlarText! Science Communication Award |
| since 2015 | Judge for the MINT-EC SchoolSlam science communication competition |
| 2019, 2022 | Member of the Selection Committee for iBiology Young Scientist Seminar Series |
| 2014 – 2016 | PhD student representative in the Research Education Boards of the Department of Biology and Science Faculty at Lund University |

CONFERENCE ORGANISATION

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| 2023 | Member of the Scientific Advisory Committee, International Conference on Invertebrate Vision (ICIV) 2023 , Bäckaskog SE |
| 2022 | Co-Organizer, ANN Satellite Symposium , Annual Meeting of the German Zoological Society (DZG), Bonn, DE |
| | Co-Organizer, Neurobiology Symposium , Annual Meeting (DZG), Bonn, DE |
| | Organizer, Light Pollution Workshop , Bavarian Academy of Sciences, Würzburg, DE |
| 2020 | Co-Organiser, Lepidopteran Satellite Symposium , International Congress of Neuroethology 2020, Lisbon PT – <i>cancelled due to Covid</i> |
| | Organising committee member, Annual Meeting of the German Zoological Society 2020 , Würzburg DE (postponed to 2021) |
| 2019 | Member of the Scientific Advisory Committee, ICIV 2019 , Bäckaskog SE |
| 2016 | Co-Organizer, Lund University-wide 3 Minute Thesis competition , SE |
| 2015 – 2016 | Main organizer, Biology in Lund Annual PhD student Meeting (BLAM) , SE |

TEACHING

Teaching Qualification „Zertifikat Hochschullehre der Bayerischen Universitäten - Grundstufe“ (60 AE)

Learning and Teaching in Higher Education: an Introduction, Lund University (80 course hours)

2022 **Invited Lecturer** for the Interdisciplinary College Günne, Lecture series: *Visual Flexibility*

Würzburg University

2020 Main organiser of the **Lecture and Seminar series** *Experimental Sociobiology* (Master), conducted the conversion of the course to eLearning

since 2019 **Seminar and Lecture** *Integrative Verhaltensbiologie I* (Bachelor)

since 2018 **Lectures** *Humanbiologie* (Teacher education)

Practical Course, *Integrative Verhaltensbiologie II* (Bachelor)

Lecture and Seminar *Experimental Sociobiology* (Master)

At Lund University

2015 – 2019 *Popular science communication* in the preparatory course for Bachelor students

2016 **Lectures** in Neurobiology (*Resting Membrane & Action Potential, Neural Coding*)

2012 – 2016 **Course Instructor** for Laboratories in Neurobiology and Sensory Biology,

2014 – 2016 **Course Assistant** for Laboratories in Zoology and Pharmacology

Summer Academies: Morality in Philosophy and Neuroscience

7/2013 **Instructor** for Start Sommer Campus (1-week course)

6/2011 **Instructor** for Deutsche Schülerakademie (2-week course)

SUPERVISION & MENTORING

2020 **post-doctoral researcher**: M. Held (*extracellular recordings from hawkmoth proboscis*)

PhD students

2020 – 2023 main supervisor: R. Bigge (*spatial processing in the hawkmoth lamina*)

2021 – 2024 co-supervisor: A. Raman, Edinburgh U. (*aerial manipulation in robots and hawkmoths*)

2017 – 2022 co-supervisor: N. Martyniuk, Aalto U. (*four-cell patch-clamp recordings in the mouse retina*)

Master students

2022 Vanessa Reuther (*connectivity of neurons in the hawkmoth lamina*)

Sören Kannegieser (*visual control of proboscis guidance in hawkmoths*)

2021 R. Richter (*use of floral patterns for flight and landing in bumblebees*)

2020 project assistant: C. Drerup (*proboscis control during flower probing in hawkmoths*)

2019 R. Grittner (*allometric scaling of hawkmoth spatial vision*)

2017 – 2018 co-supervision: S. Narayanan (*4-electrode patch-clamp methodology*)

2016 co-supervision: A. Dahake (*the role of antenna in hawkmoth flight control*)

2015 – 2016 project assistant: K. Kihlström (*impact of wing damage and light intensity on hawkmoth flight*)

Bachelor & biology education* students

2021 N. Kaiser (*3D morphology of lamina neurons*), M. Müller (*tuning of bee optomotor responses*)

2020 M. Krull* (*tuning of bee optomotor responses*), A. Dietz (*use of floral patterns by bees*)

Co-Supervision: A. Lange*, M. Wagner* und T. Bachthaler* (*design of a course day "Biodiversity" for 8th graders at comprehensive schools*)

2019 A. Hahn (*acuity of hawkmoth proboscis probing*), A. Böhm* (*rearing hawkmoths at school*)

COLLABORATIONS

Barbara Webb, Edinburgh U. UK: computational and robot models of pattern vision & proboscis control

Emily Baird, Stockholm U. SE: X-ray tomography and 3D reconstructions of insect eyes

Simon Sponberg, Georgia Tech. US: flight kinematics of insects

Jacqueline Degen, Würzburg U. DE: impact of light pollution on moth ecology

Johannes Spaethe, Würzburg U. DE: visual ecology of bumblebee flower choice

Jolyon Troscianko, Exeter U. UK: impact of light pollution on hawkmoth flower choice

Kentaro Arikawa, Sokendai U. JP: serial block-face imaging of insect lamina cells

INVITED SPEAKER

- 2022 *World Wide Neuro - Sussex Vision Series*, invited by Prof. Tom Baden, online
PhD colloquium Pulkit Goyal, Wageningen University, invited by Prof. Florian Muijres, NL
- 2021 *Midsummer Brains Seminar Series*, Bernstein Network Computational Neuroscience
Interdisciplinary Online Seminar on Biocomotion, by Prof. Thomas Engels, online
- 2020 *Keynote Speaker*, Interdisciplinary Graduate Conference DocColloq, Trier
Departmental Seminar, Hamburg University, by Dr. Cynthia Tedore
Departmental Seminar, CNRS - Toulouse III, by Prof. Martin Giurfa, FR
- 2019 *Symposium Speaker*, Neuroethology Satellite Meeting, DZG, Jena
Symposium Speaker, Society for Experimental Biology Annual Meeting, Seville, SP
Sokendai University, Hayama, invited by Dr. Kentaro Arikawa, JP
- 2018 *Departmental Seminar*, European Neuroscience Institute Göttingen, by Dr. Marion Silies
Symposium Speaker, Bernstein Conference for Computational Neuroscience, Berlin
Young Investigator Symposium, International Congress for Neuroethology, Brisbane, AU
- 2017 *Young Scientist Award Session*, Society for Experimental Biology Meeting, Goteborg, SE
Spatial Vision Symposium, Society for Integrative and Comparative Biology, New Orleans, US
- 2016 *Departmental Seminar*, Helsinki University, FI, invited by Dr. Ala-Laurila
- 2015 *Insect Vision Conference*, Janelia Research Campus, Ashburn, US
Departmental Seminar, Case Western University, Cleveland, US, invited by Prof. Mark Willis
- 2014 *Departmental Seminar*, Cornell University, US, invited by Dr. Goyret
- 2012 *Electric Fish Satellite*, International Congress for Neuroethology, College Park, US

OUTREACH ACTIVITIES

- Dec 2022 Maria Weber Public Lecture, “Von Photonenkünstlern und Meisterrüsslern“
- Nov 2022 Public Lecture, Ringvorlesung “Wege zur Erforschung des Gehirns“ at Freiburg University
- 2015-2019 **Workshop instructor and organiser: popular scientific presentation**
8 workshops with 15-30 participants, for the biology department, the BLAM PhD student conference, the law faculty and the 3 Minute Thesis competition at Lund University

Presentations

- 2022 **Radio Mikro Lachlabor, BR** (Radio Show answering children’s questions about the world: “Do animals have boogies?”, “Do animals cook?”, “Do animals have allergies?”)
- 2020 17. Wiesbadener **Science Slam**, Wiesbaden, DE
- 2019 **Science Slam** at Würzburg University, DE
- 2018 12. Frankfurter **Science Slam** of the “Physikalischen Vereins”, Frankfurt, DE
www.youtube.com/watch?v=G52d7nc9Mis&t=7s
Presentation at STIFT **Teacher Conference**, Erfurt, DE
- 2017 Article for **KlarText Magazin: DIE ZEIT Mit guter Sicht gut durch die Nacht**. Okt, S. 11-12
(*german*) www.youtube.com/watch?v=LogH7NSUU5g&t=106s
Finalist Skolar Award, Helsinki, FI, www.youtube.com/watch?v=UA330Fck5QQ
- 2016 **TED-Ed Videos**
Why the insect brain is so incredible www.ed.ted.com/lessons/why-the-insect-brain-is-so-incredible-anna-stockl
How do animals see in the dark www.ed.ted.com/lessons/how-do-animals-see-in-the-dark-anna-stockl
- 2015 **Hall of Famelab**, London, UK & Famelab Science Festival, Prague, CZ
- 2014 **Famelab Hamburg & Famelab National Final**, Bielefeld, DE
www.youtube.com/watch?v=qTDFwfudiQ and **Famelab International Final**, Cheltenham, UK
- 2013 **Science Slam at Public Event**, Bernstein Conference, Tübingen, DE
- 2012 **Famelab Munich, Famelab National Final**, Bielefeld, DE www.youtube.com/watch?v=Uu6BNwJQJQc
- 2009 Article in **Spektrum der Wissenschaft E.colizenz zum Töten**. April, S. 16-17 (*German*)