CURRICULUM VITAE

PATRICK SCHULTHEISS, PHD

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EDUCATION

2008 – 2012	**PhD in Brain, Behaviour and Evolution, Macquarie University, Sydney, Australia** Thesis: "*Foraging ecology of the Australian desert ant* Melophorus bagoti" Advisor: Prof. K. Cheng
1998 – 2006	**Diploma in Biology, Goethe-University, Frankfurt a. M., Germany** Thesis: "*Comparison of the diversity of game-meadows and extensively used hay meadows in the Taunus*" Advisor: Prof. Dr. R. Wittig

PROFESSIONAL EXPERIENCE

since 2022	**Temporary Principal Investigator in Insect Neuroethology** University of Würzburg, Germany
2019 – 2021	**Postdoctoral Researcher in Insect Behaviour and Biogeography** University of Hong Kong, Hong Kong
2016 – 2018	**Postdoctoral Researcher in Insect Neuroethology** French National Centre for Scientific Research (CNRS), Toulouse, France
2014 – 2015	**Research Assistant in Insect Ecology** Western Sydney University, Sydney, Australia
2014 – 2014	**Postdoctoral Researcher in Insect Navigation** Australian National University, Canberra, Australia
2012 – 2014	**Postdoctoral Researcher in Insect Navigation** Macquarie University, Sydney, Australia

GRANTS AND AWARDS

2022	Research Grant (Eigene Stelle), German Research Council (DFG)
2020	Postdoctoral Fellow Research Award, University of Hong Kong
2017	Workshop Attendance Fund, The Company of Biologists
2016	Returning Scientist Fellowship, DAAD; unclaimed
2010	Postgraduate Research Fund, Macquarie University
2008	Research Excellence Scholarship, Macquarie University

TEACHING EXPERIENCE

2022	**Masterclass** Experimental Sociobiology, University of Würzburg, Germany
2022	**Instructor** Behavioural Physiology, University of Würzburg, Germany
2019	**Tutor** at experiential field course Ecology & Evolution, University of Hong Kong
2016	**Masterclass** Neuroethology, Paul Sabatier University, Toulouse, France
2015	**Lectures and practical** Navigation and Foraging, Macquarie University, Sydney, Australia
2012	**Tutor** Brain, Behaviour and Evolution, Macquarie University, Sydney, Australia
2011	**Tutor** Australasian Vertebrates, Macquarie University, Sydney, Australia
2003 – 2005	**Tutor** Animal and Plant Morphology, Goethe-University, Frankfurt a. M., Germany
2003 – 2004	**Tutor** Systematics of Plants and Animals, Goethe-University, Frankfurt a. M., Germany

LIST OF PUBLICATIONS (SELECTION)

Total publications: 28. Scopus citations: 608, *h*-index 15; Google Scholar citations: 751, *h*-index 18

* first authorship shared

1. **Schultheiss P***, Nooten SS*, Wang R, Wong MKL, Brassard F, Guénard B. 2022. The abundance, biomass, and distribution of ants on Earth. *Proceedings of the National Academy of the USA* 119:e2201550119 *(link)*
2. **Schultheiss P**, Guénard B. 2021. Kinematic study of six mangrove ants species (Hymenoptera: Formicidae) reveals different swimming styles and abilities. *Myrmecological News* 31:217-224 *(link)*
3. Buatois A, Flumian C, **Schultheiss P**, Avarguès-Weber, A, Giurfa, M. 2018. Transfer of visual learning between a virtual and a real environment in honey bees: the role of active vision. *Frontiers in Behavioral Neuroscience* 12:139 *(link)*
4. Freas CA, **Schultheiss P**. 2018. How to navigate in different environments and situations: lessons from ants. *Frontiers in Psychology* 9:841 *(link)*
5. **Schultheiss P***, Buatois A*, Avarguès-Weber A, Giurfa M. 2017. Using virtual reality to study visual performances of honeybees. *Current Opinion in Insect Science* 24:43-50 *(link)*
6. **Schultheiss P**, Stannard T, Pereira S, Reynolds, AM, Wehner R, Cheng K. 2016. Similarities and differences in path integration and search in two species of desert ants inhabiting a visually rich and a visually barren habitat. *Behavioral Ecology and Sociobiology* 70:1319-1329 *(link)*
7. **Schultheiss P**, Wystrach A, Schwarz S, Tack A, Delor J, Nooten SS, Bibost, A-L Freas CA, Cheng K. 2016. Crucial role of ultraviolet light for desert ants in determining direction from the terrestrial panorama. *Animal Behaviour* 115:19-28 *(link)*
8. **Schultheiss P**, Raderschall CA, Narendra A. 2015. Follower ants in a tandem pair are not always naïve. *Scientific Reports* 5:10747 *(link)*
9. **Schultheiss P**, Wystrach A, Legge ELG, Cheng K. 2014. Information content of visual scenes influences systematic search of desert ants. *Journal of Experimental Biology* 216:742-749 *(link)*
10. **Schultheiss P,** Cheng K. 2011. Finding the nest: inbound searching behaviour in the Australian desert ant, *Melophorus bagoti*. *Animal Behaviour* 81:1031-1038 *(link)*