Curriculum Vitae

Personal Details

Name	Luisa Kumpitsch
Address	Kobberstensvägen 17
	45296 Strömstad
	Sweden
Phone Number	+46766229463
E-Mail	luisa.kumpitsch@gu.se
Birthday/-place	10.06.1995 in Friedrichroda
Nationality	German



Education

10/2017 - 09/2021	TU Dresden, Dresden, Germany
	Field of study: Biology (Master of Science)
10/2014 - 03/2018	TU Dresden, Dresden, Germany
	Field of study: Biology (Bachelor of Science)
10/2013 - 09/2014	University of Passau
	Field of study: International Cultural and Business Studies (Bachelor of
	Arts)
08/2005 - 06/2013	Salzmannschule Schnepfenthal, Governmental school for languages,
	Schnepfenthal, Germany
	Degree: Abitur

Work Experience10/2017 - 03/2020TU Dresden, Germany, Faculty of Biology, Institute of Zoology06/2016 - 03/2017Professorship of Applied ZoologyFunction: student research assistant (behavioral experiments with
Cimex lectularius and *Drosophila melanogaster*, measurements of
reactive oxygen species in sperm of *D. melanogaster* lines)03/2018 - 09/2018TU Dresden, Division of Sciences, International Office
Function: student assistant (organization and implementation of a
German-Japanese symposium in Kobe, Japan)

Present Employment	
01/2022 - current	PhD Student, Tjärnö Marine Laboratory, Department of Marine
	Sciences, University of Gothenburg, Strömstad, Sweden
	Project: The role of sperm in sexual selection and speciation in marine
	intertidal organisms
International Experience	e
31.10.2022 - 30.11.2022	Toralla Marine Station, University of Vigo, Vigo, Spain
	Project: Sperm competition effects on fertilization success and sperm
	motility in the sea urchin Paracentrotus lividus (Funded by Aquacosm-
	plus, European Commission)
09/2020 - 06/2021	Marine Biological Research Centre, University of Southern Denmark
	Kerteminde, Denmark and Geomar, Helmholtz Zentrum für
	Ozeanforschung, Kiel, Germany
	Project: Master Thesis on physiological and structural effects of
	macroplastic on blue mussel aggregates; the thesis was part of the
	international project GAME led by Geomar Kiel.
03/2017 - 07/2017	Kyoto Institute of Technology, Kyoto, Japan
	Project: Effects of ozone on the photosynthesis rate of two different
	plant species (Rhododendron pulchrum and Prunus yedoensis) in zones
	with different traffic amounts in Kyoto, Japan
Courses	
26.08.2024 - 30.08.2024	Villefranche-Sur-Mer Marine station, Sorbonne University, Villefranche-sur-
	Mer, France
	Course: Imaging marine invertebrate embryos
	Acquired skills: fundamental concepts of embryonic/extraembryonic
	development of marine invertebrates (ascidians, jellyfish, salps, sea
	urchins), handling of organisms and their gametes/embryos, confocal and
	light sheet microscopy, image analysis
26.06.2024 - 27.06.2024	University of Cambridge, Cambridge Centre for Proteomics, Cambridge,
	United Kingdom

	Courses Analysis of everyonics methomics data in D
	Course: Analysis of expression proteomics data in R
	Acquired skills: characterization of the protein diversity and abundance in
	datasets from LFQ and TMT mass spectrometry, proteomics Bioconductor
	packages
04.06.2024 - 13.06.2024	Tjärnö Marine Laboratory, Universtiy of Gothenburg, Strömstad, Sweden
	Course: Experimental Design and Data Analysis for Marine Sciences
	Acquired skills: experimental and sampling design, data analysis (linear
	models, multiple regression, model selection and regression trees, mixed
	models, multivariate analyses)
12.06.2023 - 14.07.2023	Friday Harbor Laboratories, Friday Harbor, Washington State, USA
	Course: Larval Biology
	Acquired skills: handling of marine invertebrate gametes and embryos,
	different fertilization techniques, plankton sampling, larval
	development, behavior and anthropogenic change effects in the marine
	environment
10.06.2022 - 16.06.2022	Tjärnö Marine Laboratory, Universtiy of Gothenburg, Strömstad, Sweden
	Course: Variation & Extremes in Ecology and Ecological Physiology -
	Thinking Beyond the Average
	Acquired skills: the role of variation and extremes in ecology and
	ecological physiology, the pervasive effects of Jensen's inequality ("the
	fallacy of the average"), the statistics of extremes and how to calculate
	and interpret them, and the importance of mechanistic models in the
	exploration of variation and extremes
25.04.2022 - 29.04.2022	Institute of Aquatic Ecology, HUN-REN Centre for Ecological Research,
	Budapest, Hungary
	Course: Aquacosm-plus Spring School
14.03.2022 - 19.03.2022	Kristineberg Center, University of Göteborg, Fiskebäckskil, Sweden
	Course: Basic Training Course on ocean acidification
	Acquired skills: characterization of seawater carbon chemistry, key
	aspects of ocean acidification experimental design
	Acquired skills: key aspects of mesocosm experiments in aquatic
	environments (marine and freshwater)

Conferences

14.07.2023 - 28.07.2023	XIII International Symposium on Littorinid Biology and Evolution, Vila do
	Conde, Portugal
	Presentation: Talk on "The role of eusperm in reproductive isolation and
	sperm competition in Littorina snails"
04.09.2023 - 08.09.2022	Biology of Sperm meeting, Nynäshamn, Sweden
	Presentation: Poster on "Sperm ultrastructure and variation in the
	marine gastropod genus Littorina"
14.08.2022 - 19.08.2022	Congress of the European Society for Evolutionary Biology, Prag, Czech
	Republic
	Presentation: Poster on "Comparative analysis of heteromorphic sperm
	in the gastropod genus <i>Littorina</i> "
Teaching Experience	
01/2022 - current	Tjärnö Marine Laboratory, Universtiy of Gothenburg, Strömstad, Sweden

Teaching: undergraduate course on DNA and protein extractions,

undergraduate course on marine biodiversity, graduate course on

Teaching: English, Spanish, Biology, and Japanese for high school

marine experimental ecology, supervision of three bachelor students

Additional Experiences

Training in transmission electron microscopy and scanning electron microscopy, inshore yachtmaster diploma, experience in operating small motor boats, open water diver

GoStudent Austria

students

Language Skills

08/2020 - 01/2022

German (native), English (C1 **CEFR**), Spanish (C1 **CEFR**), Japanese (B1 **CEFR**), Swedish (A2 **CEFR**), Russian (A1 **CEFR**)

Computer Skills

Microsoft Office, ImageJ, R

Publications

Dobson, A. J., Voigt, S., Kumpitsch, L., Langer, L., Voigt, E., Ibrahim, R., Dowling, D. K., & Reinhardt, K. (2023). Mitonuclear interactions shape both direct and parental effects of diet on fitness and involve a SNP in mitoribosomal 16s rRNA. PLOS Biology, 21(8), e3002218.

Matsumoto, M., Kiyomizu, T., Yamagishi, S., Kinoshita, T., Kumpitsch, L., Kume, A., & Hanba, Y. T. (2022). Responses of photosynthesis and long-term water use efficiency to ambient air pollution in urban roadside trees. Urban Ecosystems, 25(4), 1029–1042.

Matsuura, T., Okamoto, Y., Matsumoto, M., Kiyomizu, T., Kumpitsch, L., Kume, A., & Hanba, Y. T. (2025). The impact of air pollution control measures and the COVID-19 pandemic on photosynthesis in urban trees. Scientific Reports, 15(1), 1453. https://doi.org/10.1038/s41598-024-85080-x

Turnell, B. R., Kumpitsch, L., & Reinhardt, K. (2021). Production and scavenging of reactive oxygen species both affect reproductive success in male and female Drosophila melanogaster. Biogerontology, 22(4), 379–396.

Turnell, B. R., Kumpitsch, L., Ribou, A.-C., & Reinhardt, K. (2021). Somatic production of reactive oxygen species does not predict its production in sperm cells across Drosophila melanogaster lines. BMC Research Notes, 14(1), 131.