Vanessa Marzetz

Contact

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Scientific career

PhD candidate, 'Theoretical Aquatic Ecology', University of Potsdam
Research Assistant, 'Theoretical Aquatic Ecology'
Semester abroad, study focus 'Marine Biology', University of Technology Sydney, Australia
Master of Science in 'Ecology, Evolution and Conservation', University of Potsdam, Major in Aquatic Ecology and Modelling
Student and Research Assistant, 'Ecology/ Ecosystem Modelling'
Bachelor of Science in Biosciences at the University of Potsdam, Specialization in 'Organismic Biology'

Publications

2017	Marzetz, V. , Koussoroplis, A-M., Martin-Creuzburg, D., Striebel, M. & Wacker, A. (2017) Linking primary producer diversity and food quality effects on herbivores: A biochemical perspective. Scientific Reports 7: 11035. DOI: 10.1038/s41598-017-11183-3
2015	Wacker A., Marzetz V. & Spijkerman, E. (2015) Interspecific competition in phytoplankton drives the availability of essential mineral and biochemical nutrients. Ecology 96 (9): 2467-2477. DOI: 10.1890/14-1915.1

Awards

2018 Schwoerbel-Benndorf Young Talent Award of the German Limnological Society (DGL) for the publication in Scientific Reports

Conference contributions

2018	Plenary talk, Schwoerbel-Benndorf Young Talent Award of the German Limnological Society (DGL), Kamp-Lintfort, Germany "Linking primary producer diversity and food quality effects on herbivores: A biochemical perspective"
2018	Aquatic Science Summer Meeting of the Association for the Sciences of Limnology and Oceanography (ASLO) Victoria, Canada, "Light quality effects on phytoplankton communities" (Oral presentation)
2017	British Ecological Society (BES) Annual Meeting, Ghent, Belgium, "Assessing physiological changes in phytoplankton communities" (Poster).
2017	DynaTrait conference, Hannover, Germany "Linking primary producer diversity and food quality effects on herbivores: A biochemical perspective" (Oral presentation).
2017	Aquatic Science Meeting of the Association for the Sciences of Limnology and Oceanography (ASLO), Honolulu, USA "Does the diversity of phytoplankton communities drive zooplankton into co-limitation?" (Oral presentation)
2015	Annual conference of the German Limnological Society (DGL), Essen, Germany"Interspezifische Konkurrenz im Phytoplankton beeinflusst die Verfügbarkeit von essentiellen mineralischen und biochemischen Nährstoffen" (Oral presentation)
2015	Aquatic Science Meeting of the Association for the Sciences of Limnology and Oceanography (ASLO), Granada, Spain "Does interspecific competition lead to changed composition of essential mineral and biochemical nutrients in phytoplankton?" (Oral presentation)

Research interests

- Ecology of aquatic organisms and food webs
- Mineral and biochemical composition of phytoplankton
- Biodiversity of phytoplankton communities
- Interspecific competition in phytoplankton communities
- Environmental influences on phytoplankton species, communities and its impact on their biochemical composition
- Food quality effects of phytoplankton communities on daphnids

Techniques

- Cultivation and experimental study of phyto- and zooplankton species
- Determination of elemental nutrient content and sterol/fatty acid analysis of phytoplankton (i.e. gas chromatography)

- PhytoPAM measurements
- Determination of phytoplankton abundances with light and epifluorescence microscopy as well as flow cytometry
- Basic Limnological field work (Sampling of lake descriptors, sampling and determination of phyto- and zooplankton)

Current and recently completed research

- Phytoplankton and the competition for light
- Changes in biochemical composition of phytoplankton species and communities under fluctuating environmental conditions
- Interspecific competition in phytoplankton communities and the effect on *Daphnia magna* (Master thesis)
- ¹³C discrimination in four green algae species in dependency of P and CO₂ (Vertiefungsmodul)
- Effects of biodiversity on the biochemical composition of phytoplankton communities (Bachelor thesis)