

## Curriculum Vitae

<i>Name</i>	Professor Dr. <b>Ursula Gaedke</b>
<i>Born</i>	1959, married, 1 child (part-time working 1993-1997)
<i>Affiliation</i>	Institute of Biochemistry and Biology University Potsdam Am Neuen Palais 10 14469 Potsdam, Germany
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<i>Positions</i>	1999-            Head of the Dept. Ecology/Ecosystem modelling, full professor (C4) 1992-1999      Scientific Assistant (Assistant Professor), University of Constance 1986-1991      Post-Doc in the Special Collaborative program (SFB 248) "Cycling of Matter in Lake Constance", University of Constance 1995            Habilitation at University of Constance, Ecology & Limnology 1988            PhD University of Oldenburg (Prof. W. Ebenhöf, Mathematics) 1984            Diploma Applied Statistics, Oxford University, GB, funded by DAAD 1983            Master in Biology, Univ. Oldenburg, Thesis at the Netherlands Institute for Sea Research, NL, funded by Studienstiftung des deutschen Volkes
<i>Fields of interest</i>	<b>Quantitative dynamics of plankton communities and food webs</b> , and the <b>adaptive potential of ecological systems</b> to adjust to altered conditions. Interplay between mathematical modelling, advanced time-series analysis of long-term field observations, and experiments with plankton to <b>advance ecological theory</b> and to understand direct and indirect <b>consequences of biodiversity loss and climate change</b> .
<i>Peer-reviews for scientific journals</i>	American Naturalist, Aquatic microbial ecology, Archiv für Hydrobiologie, BioSystems, Deep-Sea Research Part 1, Ecological Indicators, Ecology Letters, Ecosystems, Environmental Modeling & Assessment (EMA), European Journal of Protistology, Freshwater Biology, Functional Ecology, Hydrobiologia, ICES Journal of Marine Science, Inland Waters, International Review of Hydrobiology, Journal of Animal Ecology, Journal of Phycology, Journal of Plankton Research, Journal of Environmental Quality, Journal of Sea Research, Limnologica, Limnology and Oceanography, Marine Biology, Marine Ecology Progress Series (MEPS), PLoS ONE, PLoS Computational Biology, Science, Water Research, and others.
<i>Peer-reviews for funding agencies</i>	Austrian Academy of Science, EU (BiodivERsA), European Science Foundation (ESF), Florida Sea Grant (USA), German Science Foundation (DFG, evaluation of proposals and research groups), Great Lakes Fishery Commission, USA, Helmholtz Gemeinschaft, Humboldt-Foundation, Kompetenzzentrum Wasser Berlin, Margarete von Wrangell-Habitationsprogramm, National Science Foundation (NSF, USA),

Natural Environmental Research Council (NERC, UK), Swiss National Science Foundation, The Israel Science Foundation (ISF), United States-Israel Binational Science Foundation

<i>Member of scientific advisory boards and evaluation panels</i>	<p>Chair of the DFG priority programme 1704 “DynaTrait” (since 2014)</p> <p>ProFessur - Mentorin für hochqualifizierte Wissenschaftlerinnen (2013-2016)</p> <p>Evaluation commission of the Senate of the Leibniz-Institutes ((vice-)chairing evaluations of research institutes, 2010-2017)</p> <p>Evaluations for the Wissenschaftsrat</p> <p>Member of KOWA (Commission of the Senate of the German Science Foundation (DFG); 2009-2014)</p> <p>Advisory board of the Institute for the Chemistry and Biology of the Sea (ICBM, University of Oldenburg (2008-2016, chair 2012-2016)</p> <p>Evaluations of working groups for the Saxony Academy of Science and DFG</p>
<i>University self-administration</i>	<p>Chair of the Institute of Biochemistry and Biology (2012-2014, vice-chair 2008-2010)</p> <p>Chair of committee for equal opportunity affairs (2001-2006)</p> <p>Member (2005-2009) and chair (2006-2008) of the board of the Bachelor Programme Biological Sciences implementing our Bachelor programme,</p> <p>Chair/member of numerous other boards and committees (institute, faculty and university level)</p>
<i>Supervision of junior scientists</i>	<p>First supervisor of 13 completed PhDs and 4 ongoing dissertations, 3 completed and 3 ongoing habilitations</p>
<i>Awards</i>	<p>Naumann-Thienemann Medal of the International Society of Limnology / Societas Internationalis Limnologiae (SIL) in 2016</p>

### Five selected publications

1. Boit, A., N.D. Martinez, R. J. Williams & U. Gaedke (2012) Mechanistic theory and modeling of complex food web dynamics in Lake Constance. **Ecol. Lett.** 15:594-602
2. Massie, T. M., B. Blasius, G. Weithoff, U. Gaedke and G. Fussmann (2010) Cycles, phase synchronization and entrainment in single-species phytoplankton populations. **Proc. Nat. Acad. Sci. (PNAS)** 107: 4236-4241
3. Tittel, J., V. Bissinger, B. Zippel, U. Gaedke, E. M. Bell, A. Lorke & N. Kamjunke (2003) Mixotrophs combine resource use to out-compete specialists: implications for aquatic food webs. **Proc. Nat. Acad. Sci. (PNAS)** 100: 12776-12781
4. Hairston, N. G., Jr, W. Lampert, C. E. Cáceres, C. L. Holtmeier, L. J. Weider, U. Gaedke, J. M. Fischer, J. A. Fox & D. M. Post (1999) Lake ecosystems: Rapid evolution revealed by dormant eggs. **Nature** 401: 446
5. Gaedke, U., S. Hochstädter & D. Straile (2002) Interplay between energy limitation and nutritional deficiency: Empirical data and food web models. **Ecological Monographs** 72: 251-270