

Kimberley D. Lemmen

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ACADEMIC APPOINTMENTS

- 2025 - SNF Postdoc Mobility Fellow
Université de Montpellier, France
Fronhofer Research Group, Institut des Sciences de l'Evolution, ISEM
- 2021-2024 Postdoctoral Researcher
University of Zurich, Switzerland
Pennekamp Research Group, Dept. Evolutionary Biology & Environmental Studies
- 2019-2020 Guest Researcher
Swiss Federal Institute of Aquatic Science and Technology (EAWAG), Switzerland
Matthews Research Group, Department Fish Ecology and Evolution

EDUCATION

- 2014-2021 Doctor of Philosophy, Environmental Biology
Netherlands Institute of Ecology (NIOO) / Utrecht University, The Netherlands
- 2011-2013 Master's of Science, Biology
Queen's University, Canada
- 2006-2010 Bachelor's of Science, Honors. Major: Biology
Queen's University, Canada

REFEREED PUBLICATIONS

12. **K. Lemmen**, and F. Pennekamp. 2024. Food web context modifies predator foraging and weakens trophic interaction strength. *Ecology Letters*, 27, e14475.
11. **K. Lemmen**, L. Zhou, S. Papakostas, and S.A.J. Declerck. 2023. An experimental test of the growth rate hypothesis as a predictive framework for microevolutionary adaptation. *Ecology*, 104(1): e3853.
10. R.W. El-Sabaawi, **K. Lemmen**, P. Jeyasingh, and S.A.J. Declerck. 2023. SEED: A framework for integrating ecological stoichiometry and eco-evolutionary dynamics. *Ecology Letters*, 26(Suppl. 1), S109-S126.
9. C. Shen, **K. Lemmen**, J. Alexander, and F. Pennekamp. 2023. Connecting higher-order interactions with ecological stability in experimental aquatic food webs. *Ecology and Evolution*, 13, e10502.
8. R. Limberger, U. Daugaard, A. Gupta, R. Krug, **K. Lemmen**, S. van Moorsel, M. Suleiman, D. Zuppinge-Dingley, and O. Petchey. 2023. Functional diversity can facilitate the collapse of an undesirable ecosystem state. *Ecology Letters*, 26, 883– 895.
7. **K. Lemmen**, K. Verhoeven, and S.A.J. Declerck. 2022. Experimental evidence of rapid heritable adaptation in the absence of initial standing genetic variation. *Functional Ecology*, 36(1): 226-238.

*Shortlisted, Haldane Prize for best paper by an early career researcher <https://tinyurl.com/4hzk638m>

6. M. Cuenca-Cambronero, C.J. Courtney-Mustaphi., R. Greenway, O. Heiri, C.M. Hudson, L. King, **K. Lemmen**, M. Moosmann, M. Muschick, N. Ngoepe, O. Seehausen, and B. Matthews. 2022. Integrating evolutionary processes with paleolimnological proxies in freshwater ecosystems. *Trends in Ecology and Evolution*, 37(6): 488-496.
5. **K. Lemmen**, O. Butler, T. Koffel, S. Rudman, and C. Symons. 2019. Stoichiometric Traits Vary Widely Within Species: A Meta-analysis of Common Garden Experiments. *Frontiers in Ecology and Evolution*, 7: 339.
4. W. Zhang, **K. Lemmen**, L. Zhou, S. Papakostas, and S.A.J. Declerck. 2019. Patterns of differentiation in the life history and demography of four recently described species of the *Brachionus calyciflorus* cryptic species complex. *Freshwater Biology*, 64: 1994-2005.
3. L. Zhou, **K. Lemmen**, W. Zhang and S.A.J. Declerck. 2018. Direct and indirect effects of resource P-limitation differentially impact population growth, life history and body elemental composition of a zooplankton consumer. *Frontiers in Microbiology*, 9: 72.
2. S.A.J. Declerck, A. Malo, S. Diehl, D. Waasdorp, **K. Lemmen**, K. Proios, and S. Papakostas. 2015. Rapid adaptation of herbivore consumers to nutrient limitation: eco-evolutionary feedbacks to population demography and resource control. *Ecology Letters*, 18: 553-562.
1. T. Burg, S.A. Taylor, **K. Lemmen**, A.J. Gaston, and V.L. Friesen. 2014. Postglacial population differentiation potentially facilitated by a flexible migratory strategy in golden-crowned kinglets (*Regulus satrapa*). *Canadian Journal of Zoology*, 92: 163-172.

FELLOWSHIPS, RESEARCH GRANT & AWARDS

Period Held	Name of Award	Value (CAD)
2025-2027	SNF Postdoc.Mobility Fellowship	175,745
2023	UCL/GSPI International Policy Fellowship	1,580
2023	Shortlisted - Best paper by an ECR in Functional Ecology	
2018	Best Oral Presentation, PhD Student, NL Annual Ecology Meeting	1,124
2015	Royal Netherlands Academy of Arts and Sciences Equipment Grant	52,481
2012	Ontario Graduate Scholarship	15,000
2012	Northern Scientific Training Program	1,600
2011	TD Fellowship in Arctic Environmental Issues	14,000
2011	Northern Scientific Training Program	1,800
2010	NSERC Undergraduate Student Research Award	4,500

INVITED SEMINARS

- 2023 **KU Leuven Department of Biology Seminar Series**. Experimental characterization of higher order interactions and their effect on community dynamics. 2023. KU Leuven, Belgium.
- 2021 **Biological Stoichiometry Seminar Series**. Evolutionary responses of primary consumers reduce the cost of stoichiometric imbalances. 2021. Virtual series hosted by Trent University, Peterborough, Canada. https://www.youtube.com/watch?v=aj568grg_5I&t=651s

CONFERENCE PRESENTATIONS (Last 5 Years)

- 2024 French Society of Ecology and Evolution, Lyon, France.
- 2023 Ecological Society of America, Portland, United States of America.
- 2023 Experimental Evolution and Community Dynamics V, Tvärminne Zoological Station, Finland.
- 2022 Ecological Society of America, Montreal, Canada.
- 2022 Biology 22 Conference, Basel, Switzerland.
- 2021 Ecological Society of America, Virtual.
- 2021 Shallow Lakes conference. Virtual.
- 2020 Biology 20 Conference, Fribourg, Switzerland.

WORKING GROUPS

- 2019 Woodstoich IV: Group Leader of Eco-Evo Dynamics & Stoichiometry group

TRAINING & DEVELOPMENT

- 2024 EMBO Laboratory Leadership for Group Leaders (4-Day Course)
Tools, techniques and insight for the management of teams, good communication, healthy resolution of conflict and the management of workloads and responsibilities in academia.
- 2023 Writing career grants: from postdoc to group leader
- 2018 Dynamic models in R: Programming, parameter estimation, and model selection
- 2017 Generalized Linear Models & Mixed Linear Models

TEACHING EXPERIENCE

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| 2022, 2024 | Co-Instructor - BIO329: Experimental Ecology
<i>Supervised student working groups, provided lab training, assisted with experimental design, statistical analysis and evaluated final report.</i> | University of Zurich |
| 2015, 2017 | Course Demonstrator - Aquatic Ecology (MSc Level)
<i>Trained students in literature searches, experimental design, lab techniques and analyses. Taught lectures, provided in-lab supervision, and evaluated assignments.</i> | Utrecht University |
| 2013 | Teaching Assistant - BIOL307: Ecology of Stressed & Recovering Lakes
<i>Field Course - Co-designed course structure. Lead lectures and supervised laboratory experiments. Independently supervised undergraduate students in remote field conditions.</i> | Queen's University |
| 2013 | Teaching Assistant - BIOL205 - Mendelian and Molecular Genetics * | Queen's University |
| 2012-2013 | Teaching Assistant - BIOL206 - Evolutionary Genetics * | Queen's University |
| 2011-2012 | Teaching Assistant - BIOL202 - Diversity of Life II * | Queen's University |

* As a BIOL 200-level teaching assistant I prepared and conducted lectures and practical labs for second-year undergraduates. Supervised and graded exams. Provided review and tutoring sessions outside of lab hours.

STUDENT SUPERVISION

2022	Simone McNamara	BSc	University of Zurich
2021	Andrin Bieri	BSc	University of Zurich
2021-2022	Chenyu Shen (Co-Supervised)	MSc	University of Zurich
2018	Erik Kruitbosch	MBO Level 4	Netherlands Institute of Ecology
2017	Nadine Mennings	MBO Level 4	Netherlands Institute of Ecology
2016-2017	Sam Aakster	MSc	Netherlands Institute of Ecology
2015	Niels Verstraete	MBO Level 4	Netherlands Institute of Ecology
2015-2016	Kristian Soo	MSc	Netherlands Institute of Ecology
2015	Zahra Sharif	MBO Level 3	Netherlands Institute of Ecology
2013	Laura Remond (Co-Supervised)	BSc	Queen's University
2012	Stephanie Sardelis (Co-Supervised)	BSc	Queen's University

**MBO is the secondary vocational education program in the Netherlands. Level 4 students will work independently in middle-management positions or attend higher professional education.*

ACADEMIC SERVICE

Reviewer for journals

Trends in Ecology and Evolution, Ecology Letters, Oikos, Functional Ecology, Freshwater Biology, Biological Invasions, Frontiers in Ecology and Evolution, PeerJ, Aquatic Ecology, Hydrobiologia, Journal of Plankton Research (11 journals, 15 reviews)

Society service

2021-2024 Associate Editor of Ratios Matter Newsletter (for academics interested in ecological stoichiometry)
 2021 Co-organizer of a special session at the Association for the Sciences of Limnology and Oceanography (ASLO) conference

University service

2016-2018	Chair Career Committee Chair	Graduate School for PERC - NIOO
2016-2018	PhD Council Vice Secretary	Graduate School for PERC - NIOO
2015-2017	Social Committee	Netherlands Institute of Ecology (NIOO)
2012	Environmental Physiologist Job Search Committee	Queen's University
2012	Biograds Committee of the Whole	Queen's University

LANGUAGE SKILLS

English - Fluent (mother tongue)

French - Some knowledge

German - Some knowledge