

## Curriculum Vitae

### Dr. Romana Limberger

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#### Education

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| 2007-2011 | PhD in Biology, University of Salzburg, Austria<br>Thesis title: The role of metacommunity dynamics in structuring diversity<br>Supervision: Dr. Stephen Wickham                              |
| 2002-2003 | Master thesis in Biology, University of Vienna, Austria<br>Thesis title: Abiotic parameters and phytoplankton communities in a Danubian backwater system<br>Supervision: Dr. Michael Schagerl |
| 1997-2003 | Studies of Biology at the University of Vienna, Austria<br>Specialization on Ecology  |
| 2001      | Erasmus exchange semester at the University of Trieste, Italy   |
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#### Professional experience

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| 2015-present | Postdoctoral fellow at EAWAG<br>Project title: The eco-evolutionary dynamics of community assembly in aquatic ecosystems<br>Funding: Swiss National Science Foundation, SNF<br>PI: Dr. Blake Matthews, EAWAG.   |
| 2014-2015    | Erwin-Schrödinger Postdoctoral fellow at the University of Salzburg<br>Project title: Adaptation to gradual environmental change<br>Funding: Austrian Science Fund, FWF   |
| 2012-2014    | Erwin-Schrödinger Postdoctoral fellow at McGill University, Montréal, Canada<br>Project title: Adaptation to gradual environmental change<br>Funding: Austrian Science Fund, FWF<br>Mentor: Dr. Gregor Fussmann |
| 2007-2010    | PhD position in the project “The role of metacommunity dynamics in structuring epibenthic microbial biodiversity”.<br>Funding: Austrian Science Fund, FWF.<br>PI: Dr. Stephen Wickham, University of Salzburg.  |

- 2006-2007 Algal taxonomist at Donabaum & Wolfram, Technical bureau for ecology, Vienna.
- 2006 Algal taxonomist in the project “Restoration of the Danube east of Vienna”. Funding: Federal Ministry for Transport, Innovation and Technology.
- 2006 Collaboration in the project “Microbial biofilms, flow heterogeneity and organic carbon cycling: bridging basic and applied research in streams”. Funding: Austrian Science Fund, FWF.  
PI: Prof. Tom Battin. University of Vienna.
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### Research grants and scholarships

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- 2015 Co-author of a SEED project funded by EAWAG. “Evolution of phytoplankton in natural and laboratory populations” (60 000 CHF)
- 2012-2015 Erwin-Schrödinger scholarship of the Austrian Science Fund FWF for the project “Adaptation to gradual environmental change” (138 000 €)
- 2010-2011 Marie-Andessner scholarship of the University of Salzburg for the PhD thesis “The role of metacommunity dynamics in structuring diversity” (23 600 €)
- 2010 Travel award from the International Society of Protistologists (700 €)
- 2004-2005 Research scholarship of the Faculty of Life Sciences, University of Vienna, for the project “Key factors of phytoplankton dynamics in Lake Neusiedlersee“ (14 400 €)
- 2001 Scholarship from the Erasmus exchange programme for an exchange semester at the University of Trieste, Italy.
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### Publications (five key publications marked with an asterisk)

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- \* **Limberger, R.**, Low-Décarie, E. and Fussmann, G.F. (2014): Final thermal conditions override the effects of temperature history and dispersal in experimental communities. *Proceedings of the Royal Society B* 281: 20141540.
- \* **Limberger, R.** and Wickham, S.A. (2012): Transitory versus persistent effects of connectivity in environmentally homogeneous metacommunities. *PLoS ONE* 7:e44555.
- \* **Limberger, R.** and Wickham, S.A. (2012): Disturbance and diversity at two spatial scales. *Oecologia* 168:785–795.
- \* **Limberger, R.** and Wickham, S.A. (2011): Predator dispersal determines the effect of connectivity on prey diversity. *PLoS ONE* 6:e29071.
- \* **Limberger, R.** and Wickham, S.A. (2011): Competition-colonization trade-offs in a ciliate model community. *Oecologia* 167:723–732.

Besemer, K., Singer, G., **Limberger, R.**, Chlup, A.-K., Hochedlinger, G., Hödl, I., Baranyi, C. and Battin, T.J. (2007): Biophysical controls on community succession in stream biofilms. *Applied and Environmental Microbiology* 73:4966–4974.

**Limberger, R.** and Schagerl, M. (2006): Seasonal variation of hydrochemistry, algal biomass and phytoplankton composition in a Danubian backwater system. *Arch. Hydrobiol. Suppl.* 158:373–388.

**Limberger, R.**, Fesl, C. and Schagerl, M. (2004): Phytoplankton community structure in a Danubian backwater system: response to environmental factors. *Arch. Hydrobiol.* 161:181–198.

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*In preparation:*

**Limberger, R.**, and Fussmann, G.F. Rapid evolution in a deteriorating environment affects competitive interactions.

**Limberger, R.**, Millette, K., Cristescu, M., Hahn, M., Pitt, A. and Wickham, S.A. Interactive effects of environmental change and habitat connectivity on the diversity of experimental aquatic communities.

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**Invited lectures**

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| 2015 | Ecological and evolutionary responses to environmental change.<br>Invited lecture at the Institute for Limnology, Mondsee.  |
| 2014 | Dispersal, disturbance and environmental change: what can we learn from experimental metacommunities?<br>Invited lecture at the Université de Quebec á Montréal (UQAM). |
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**Conference contributions**

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| 2015 | <b>Limberger, R.</b> , Millette, K., Cristescu, M., Hahn, M., Pitt, A. and Wickham, S. (2015): Interactive effects of environmental change and habitat connectivity on the diversity of experimental aquatic communities. Association for Limnology and Oceanography (ASLO). Granada, Spain. (Talk) |
| 2013 | <b>Limberger, R.</b> , Low-Décarie, E. and Fussmann, G.F.: Response of an algal model community to gradual and abrupt environmental change in isolated versus connected habitats. Ecological Society of America (ESA), Minneapolis, USA. (Talk)   |
| 2013 | <b>Limberger, R.</b> , Low-Décarie, E. and Fussmann, G.F.: Response of an algal model community to gradual and abrupt environmental change in isolated versus connected habitats. Canadian Society for Ecology and Evolution (CSEE), Kelowna, Canada. (Talk)  |

- 2010 **Limberger, R.** and Wickham, S.A.: Using ciliates to model metacommunity dynamics. International Society of Protistologists (ISOP). Canterbury, England. (Talk)
- 2010 **Limberger, R.** and Wickham, S.A.: The influence of dispersal and predation on prey diversity. SIL-Austria meeting “Fresh blood for fresh water”. Lunz, Austria. (Poster)  
*Awarded with the prize for best poster*
- 2009 **Limberger, R.** and Wickham, S.A.: Disturbance and diversity at two spatial scales. SIL-Austria. Salzburg, Austria. (Talk)
- 2009 **Limberger, R.** and Wickham, S.A.: The role of metacommunity dynamics in structuring epibenthic protozoan diversity. American Society of Limnology and Oceanography (ASLO). Nice, France. (Talk)
- 2008 **Limberger, R.** and Wickham, S.A.: Testing the competition-colonization trade-off with benthic ciliates. Ecological Society of America (ESA). Milwaukee, USA. (Poster)
- 2008 **Limberger, R.** and Wickham, S.A.: Testing the competition-colonization trade-off with benthic ciliates. German Society of Protozoology. Warnemünde, Germany. (Talk)
- 2006 **Limberger, R.** and Schagerl, M.: Key factors of phytoplankton dynamics in Lake Neusiedlersee. German Botanical Society, Section Phycology. Helgoland, Germany. (Talk)
- 2005 **Limberger, R.** and Schagerl, M.: Hydrochemistry and algal communities in a Danubian backwater system. German Botanical Society, Section Phycology. Königswinter, Germany. (Talk)
- 2002 **Limberger, R.** and Schagerl, M.: Hydrochemistry and algal communities in a Danubian backwater system. SIL-Austria. Lunz, Austria. (Poster)
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### Teaching experience

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#### *University of Salzburg*

- 2014 Lecturer for “Design and analysis of ecological experiments”.
- 2014 Lecturer for “Microbiology. Algae”.
- 2014 Lecturer for “Anatomy and diversity of animals. Crustacea”.
- 2010 Lecturer for “Anatomy and diversity of animals. Copepoda”.
- 2007 Teaching assistant for “Mathematical methods in ecology”.

#### *University of Vienna*

- 2006-2007 Lecturer for “Trophic indication and biomonitoring with algae”.
- 2006 Lecturer for “Diversity and Systematics of Lower plants. Algae”.
- 2004 Lecturer for “Integrative ecology”.
- 2003-2006 Teaching assistant for “Ecophysiology of algae”.
- 2002-2005 Teaching assistant for “Ecology and systematics of freshwater algae”.
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**Student supervision**

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- 2014 Advisor of interns at the University of Salzburg:  
Carolina Trcka-Rojas; “Interactive effects of spatial heterogeneity and dispersal on algal metacommunities”.
- 2008 Co-supervisor of Bachelor students at the University of Salzburg:  
Peter Hingsamer; „Dispersal rates of selected ciliate species“.
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**Public outreach**

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- 2015 TV: *Salzburg Heute*, March 1, 2015, Klimawandel im Mikrokosmos
- 2014 Print: *Salzburger Nachrichten, Uni-Beilage*. December 13, 2014, page 3:  
Klimawandel im Mikrokosmos
- 2014 Limberger et al. (2014) Proc. Roy. Soc. B. 281: 20141540 featured on the  
homepages of *ORF, APA, Krone, Der Standard, Die Presse, Salzburger  
Nachrichten, Wiener Zeitung*. E.g. <http://science.orf.at/stories/1745485>
- 2003 Volunteer at the Austrian National Park Hohe Tauern (3 months):  
Presentation of ecological topics to the general public.
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**Reviewer**

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*Journal articles:* Ecology, Oecologia, Oikos, Marine Biology, Aquatic Microbial Ecology  
*Grant proposals:* Austrian Academy of Sciences (ÖAW)

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**Professional Memberships**

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Ecological Society of America (ESA)  
Association for Limnology and Oceanography (ASLO)  
British Ecological Society

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**Languages**

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German Native language  
English Fluent  
French Intermediate  
Italian Basic

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