

# DR. SOFIA J. VAN MOORSEL

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## ACADEMIC HISTORY

- Since 2022 Post-doc, Department of Geography, University of Zurich. Supervisor: Prof. Dr. Meredith Schuman
- 2020 – 2021 Post-doc, Department of Evolutionary Biology and Environmental Studies, University of Zurich. Advisor: Prof. Dr. Owen Petchey
- 2018 – 2020 Postdoctoral fellow, Department of Biology, McGill University. Advisors: Prof. Dr. Andrew Gonzalez & Prof. Dr. Owen Petchey
- 2017 – 2018 Post-doc, Department of Evolutionary Biology and Environmental Studies, University of Zurich. Advisors: Prof. Dr. Bernhard Schmid & Prof. Dr. Owen Petchey
- 2015 – 2017 Ph.D., Department of Evolutionary Biology and Environmental Studies, University of Zurich. Supervisor: Prof. Dr. Bernhard Schmid  
PhD Defense: 4<sup>th</sup> October 2017
- 2013 – 2015 MSc in Biology/Microbiology, University of Zurich
- 2010 – 2013 BSc Biology, University of Zurich, focus on subjects in Ecology and Evolution

## RESEARCH EXPERIENCE

- 2013 – 2017 Ph.D. thesis at Life Science Zurich Graduate School, University of Zurich, Switzerland, Advisor: Prof. Dr. Bernhard Schmid  
Title of thesis: Community evolution increases ecosystem functioning and stability.
- 2012 – 2013 Master thesis, Federal Institute of Aquatic Science and Technology (EAWAG), Dübendorf, Switzerland  
Advisors: Dr. David Johnson and Prof. Dr. Martin Ackermann  
Title of thesis: High-throughput analysis of metabolic incompatibilities in *E. coli*.

## CONTRIBUTIONS TO CONFERENCES, SYMPOSIA, AND RESEARCH SEMINARS

### Oral presentations as first author

#### 2022

- ESA annual meeting, Montreal, Canada (upcoming)

#### 2021

- 33rd Plant Population Biology conference, Prague, CZ
- Department of Aquatic Ecology, EAWAG
- URPP Global Change and Biodiversity Mini Symposium, University of Zurich

#### **2020**

- Departmental Seminar, University of New Brunswick, Canada (**invited speaker**)
- ESA virtual annual meeting (**invited speaker** for an organized oral symposium)

#### **2019**

- British Society of Ecology (BES) annual meeting, Belfast, UK
- Research Seminar at the University of Tübingen, Germany (**invited speaker**)
- Organismal Seminar Series, McGill University, Montreal, CA
- RIVE Seminar Series, Université de Québec à Trois-Rivières, Trois-Rivières, CA (**invited speaker**)
- Canadian Society of Ecology and Evolution annual meeting, Fredericton, CA
- URPP Global Change and Biodiversity conference, Monte Verita, CH

#### **2018**

- Annual symposium of the Quebec Centre of Biodiversity Science, Montréal, CA
- Biology18 conference, Neuchâtel, CH

#### **2017**

- British Society of Ecology (BES) annual meeting, Ghent, BEL
- 40<sup>th</sup> New Phytologist Symposium, Vienna, AT (**selected speaker**)
- Aquatic ecology & macroevolution seminar series, EAWAG Kastanienbaum, CH (**invited speaker**)
- Institute of Plant Sciences, University of Bern, CH (**invited speaker**)
- Biology17 conference, Bern, CH (**winner of the presentation award**)

#### **2016**

- British Society of Ecology (BES) annual meeting, Liverpool, UK
- BEEES seminar at the University of Zurich, CH
- Ecological Society of America (ESA) annual meeting, Fort Lauderdale, USA

#### **2015**

- Ecological Society of America (ESA) annual meeting, Baltimore, USA
- epiGBS Symposium at the Radboud University, Nijmegen, NL
- 28<sup>th</sup> Plant Population Biology conference, Tübingen, DE

#### **Poster presentations as first author**

#### **2022**

- URPP Global Change and Biodiversity Mini Symposium, University of Zurich

#### **2017**

- 40<sup>th</sup> New Phytologist Symposium, Vienna, AT (**winner of the poster award**)

#### **2016**

- Global Change and Biodiversity conference, Monte Verità, CH (**winner of the poster award**)
- Biology16 conference, Lausanne, CH
- Symposium of the Zurich-Basel Plant Science Center, Zurich, CH

#### **2014**

- 27<sup>th</sup> Plant Population Biology Conference, Konstanz, DE (**winner of the poster award**)
- 33<sup>rd</sup> New Phytologist Symposium, Zurich, CH

## AWARDS AND GRANTS

### 2022

- UZH FAN 4 Talents fellowship (20'000 CHF, 6 months)

### 2020

- UZH Forschungskredit for Postdocs (44'000 CHF, 6 months)

### 2018

- SNSF Early.Postdoc Mobility fellowship (117'000 CHF, 18 months)

### 2017

- Poster award at the New Phytologist Symposium (200 €)
- New Phytologist Trust Symposium grant (520 €)
- Best student talk in the category ecology & physiology at the Biology17 conference in Bern (300 CHF)

### 2016

- Poster award at the Global Change and Biodiversity conference in Monte Verità (250 CHF)

### 2015

- Short visit travel grant from the ESF Congenomics Network (Reference number 7167, 1800 €)

### 2014

- Poster award at the PopBio conference in Konstanz (120 €)

## SERVICES

### Editorial

Associate Editor at *Ecology & Evolution* (since 03/2021)

### Peer-Reviewing

35 verified reviews since 2017, 12 reviews per year on average.

<https://publons.com/researcher/1339389/sofia-julia-van-moorsel/peer-review/>

- Since 2020: Global Change Biology, Oikos, eLife, Evolutionary Applications
- Since 2019: Ecology Letters, New Phytologist, Functional Ecology
- Since 2018: Journal of Ecology, Ecology and Evolution, Oecologia
- Since 2017: Journal of Plant Ecology

### Other services

- Chair of the Career and Equal opportunities committee of the URPP, 2021 - 2022
- Session chair at the CSEE meeting in Fredericton, CA, 2019

- Mentor/Mentee in the Women in Ecology mentoring scheme of the British Ecological Society (BES), since 2019
- Organization of the weekly departmental discussion group (journal club) about topics in ecology and evolution, 2018
- Session chair at the BES annual meeting in Ghent, 2017
- PhD representative at the Department of Evolutionary Biology and Environmental Studies, 2013–2017
- Session presider at the ESA annual meeting in Fort Lauderdale, 2016
- Volunteering at the Red Sea Environmental Center in Dahab, Egypt (reef monitoring, surveys of fish, invertebrates, corals), 2010

## PUBLICATIONS

### 2022

- **van Moorsel, S.J.** The effects of ecotype identity and diversity on duckweed growth when exposed to moderate salt stress. *Journal of Plant Ecology* (in press)
- Lanthemann, L. & **van Moorsel, S.J.** Species interactions in three Lemnaceae species growing along a gradient of zinc pollution. *Ecology and Evolution*, 12, e8646.

### 2021

- Schmid, M.W.\* , **van Moorsel, S.J.\***, Hahl, T., De Luca, E., Wagg, C., De Deyn, G., Niklaus, P.A. & Schmid, B. Effects of plant community history, soil legacy and plant diversity on soil microbial communities. \*equal contribution. *Journal of Ecology*, 109, 3007–3023.
- **van Moorsel, S.J.** Born with a silver spoon: dandelion parents' life experiences affect the lives and afterlives of their offspring. *New Phytologist* 229(6): 3044–3047.
- **van Moorsel, S.J.**, Marleau, J., Fugère, V., Bazzerghi, C., Negrin Dastis, J.O., Petchey, O.L. & Gonzalez, A. Prior exposure to stress maintains an ecosystem cycle during severe acidification. *Oikos* 130(7):1062–1073.

### 2020

- **van Moorsel, S.J.**, Hahl, T., Petchey, O.L., Ebeling A., Eisenhauer, N., Schmid, B. & Wagg, C. Co-occurrence history increases ecosystem stability and resilience in experimental plant communities. *Ecology* 102(1):e03205.

## 2019

- Hahl, T.\*, **van Moorsel, S.J.\***, Schmid, M.W., Schmid, B. and Wagg, C. Plant responses to diversity-driven selection and associated rhizosphere microbial communities. *Functional Ecology* 34(3):707-722 \*equal contribution
- **van Moorsel, S.J.\***, Schmid, M.W.\*, Wagemaker, N., van Gorp, T., Schmid, B. & Vergeer, P. Evidence of rapid genetic divergence in a grassland biodiversity experiment. *Molecular Ecology* 28:4097-4117. \*equal contribution
- Schmid, M.W.\*, Hahl, T.\*, **van Moorsel, S.J.\***, Wagg, C. & Schmid, B. Feedbacks of plant identity and diversity on the diversity and community composition of rhizosphere microbiomes from a long-term biodiversity experiment. *Molecular Ecology* 28:863-878. \*equal contribution

## 2018

- **van Moorsel, S.J.**, Schmid, M.W., Hahl, T., Zuppinger-Dingley, D. & Schmid, B. Selection in response to community diversity alters plant performance and functional traits. *Perspectives in Plant Ecology, Evolution and Systematics* 33:51-61.
- **van Moorsel, S.J.\***, Hahl, T.\*, Wagg, C., De Deyn, G.B, Flynn, D.F.B., Zuppinger-Dingley, D. & Schmid, B. Community evolution increases plant productivity at low diversity. *Ecology Letters* 21:128-137. \*equal contribution

## 2017 and earlier

- Yamasaki, E., Altermatt, F., Cavender-Bares, J., Schuman, M., Zuppinger-Dingley, D., Garonna, I., Schneider, F., Guillén-Escribas, C., **van Moorsel, S.J.**, Hahl, T., Schmid, B., Schaepman, M. & Shimizu, K. (2017) Integrating genomics for monitoring and predicting ecosystem response to global change: phenology, evolution and biodiversity. *Current Opinion in Environmental Sustainability* 29:177-186.
- Svercel, M., Saladin, B., **van Moorsel, S.J.**, Wolf, S. & Bagheri, H.C. (2011) Antagonistic interactions between filamentous heterotrophs and the cyanobacterium *Nostoc muscorum*. *BMC Research Notes* 4:357.