

# Uriah Dugaard, M.Sc.

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## Education

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- 2020 – . . . . . » **Ph.D. in Ecology.**  
University of Zurich.  
Thesis title: *Biological drivers of ecological forecast skill (working title).*
- 2018 – 2020 » **M.Sc. in Biostatistics.**  
University of Zurich. GPA: 5.8/6.  
Thesis title: *Analysis of behaviors affecting predation success in a ciliate predator-prey system.*
- 2015 – 2018 » **B.Sc. in Biology (major) and Environmental Sciences (minor).**  
University of Zurich. GPA: 5.2/6.

## Research Publications

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§ indicates joint first authorship (equal contributions).

### Journal Articles

- 2024 » **U. Dugaard**, S. Merkli, E. Merz, F. Pomati and O. L. Petchey, “The dependence of forecasts on sampling frequency as a guide to optimizing monitoring in community ecology”, *Ecosphere*, vol. 15, no. 2, e4786.
- 2023 » R. Limberger, **U. Dugaard**, A. Gupta and others, “Functional diversity can facilitate the collapse of an undesirable ecosystem state”, *Ecology Letters*, vol. 26, no. 6, pp. 883–895.
- 2022 » **U. Dugaard**, S. Munch, D. Inauen, F. Pennekamp and O. Petchey, “Forecasting in the face of ecological complexity: Number and strength of species interactions determines forecast skill in ecological communities”, *Ecology Letters*. vol. 25, no. 9, pp. 1974–85.
- » M. Suleiman, **U. Dugaard**, Y. Choffat, X. Zheng and O. L. Petchey, “Predicting the effects of multiple global change drivers on microbial communities remains challenging”, *Global Change Biology*, vol. 28, no. 18, pp. 5575–5586.
- 2021 » M. Suleiman, Y. Choffat, **U. Dugaard** and O. L. Petchey, “Large and interacting effects of temperature and nutrient addition on stratified microbial ecosystems in a small, replicated, and liquid-dominated Winogradsky column approach”, *MicrobiologyOpen*, vol. 10, no. 3, e1189.
- 2019 » **U. Dugaard**, O. L. Petchey and F. Pennekamp, “Warming can destabilize predator–prey interactions by shifting the functional response from type III to type II”, *Journal of Animal Ecology*, vol. 88, no. 10, pp. 1575–1586.

### Preprints

- 2024 » R. Limberger<sup>§</sup>, **U. Dugaard**<sup>§</sup>, Y. Choffat and others, “Biodiversity increases the forecastability of species abundances in changing environments”, *bioRxiv*, pp. 2024–04.
- 2021 » **U. Dugaard**, R. Furrer and O. L. Petchey, “Prey speed up, predators slow down: Non-consumptive effects on movement behavior of a ciliate predator-prey pair”, *bioRxiv*, pp. 2021–11.

## Teaching Experience

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### Lecturer

- 2024   »  **BIO 144**, Data analysis in biology, University of Zurich, spring semester, 4 lectures. Data visualization and processing, hypothesis testing, linear regression, ANOVA, etc.

### Teaching Assistant (TA)

- 2021 – 2023   »  **BIO 144**, Data analysis in biology, University of Zurich, spring semester, head TA. Assisted students with exercises (methods and coding) and organized practical sessions.
- 2022   »  **R4All**. An Introduction to the Basics of R.

## Research Experience

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- 2018   »  **Research assistant** (80%). University of Zurich. Department of Evolutionary Biology and Environmental Studies. Work on a scientific publication with Prof. Owen Petchey.

## Presentations

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### Contributed Talks

- 2023   »  **U. Dugaard**, S. Merkli, E. Merz, F. Pomati and O. L. Petchey. “The dependence of forecasts on sampling frequency as a guide to optimizing monitoring in community ecology”.
- »  **GfÖ**: meeting of the Ecological Society of DE, AT and CH, Sept., Leipzig, Germany.
- 2022   »  **U. Dugaard**, S. Munch, D. Inauen, F. Pennekamp and O. L. Petchey. “Forecasting in the face of ecological complexity: number and strength of species interactions determine forecast skill in ecological communities”.
- »  **Biology**: Swiss conference on organismic biology, Feb., Basel, Switzerland.
- »  **SFE<sup>2</sup> GFÖ EEF**: International Conference on Ecological Sciences, Nov., Metz, France.
- 2021   »  **U. Dugaard**, R. Furrer and O. L. Petchey. “Non-consumptive and resource-availability effects in a ciliate predator-prey pair”.
- »  **ESA**: meeting of the Ecological Society of America, Aug., virtual.
- 2020   »  **U. Dugaard**, O. L. Petchey and F. Pennekamp,. “Warming can destabilize predator-prey interactions by shifting the functional response from Type III to Type II”.
- »  **BES**: meeting of the British Ecological Society, Dec., virtual.

### Posters

- 2022   »  **U. Dugaard**, S. Munch, D. Inauen, F. Pennekamp and O. L. Petchey. “Forecasting in the face of ecological complexity: number and strength of species interactions determine forecast skill in ecological communities”.
- »  **INTECOL**: 13th International Congress of Ecology, Aug., Geneva, Switzerland. Selected for a flash talk during the opening plenary.
- »  **Ecology Symposium** by the Life Science Zurich Graduate School, Oct., Zurich, Switzerland.

## Funding and Awards

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### Funding

- 2022 – 2024   »  **Travel grant**, awarded by the department of Evolutionary Biology and Environmental Studies, University of Zurich (ca. 1000.- CHF each year).

## Funding and Awards (continued)

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### Awards

- 2019   » **BES Elton Prize.** Awarded by the British Ecological Society each year for the best research paper in *Journal of Animal Ecology* written by an early career author at the start of their research career.

### Peer Review

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- 2024   » *Ecology.*
- 2022   » *Journal of Animal Ecology.*
- 2021   » *Ecology Letters; PeerJ; Journal of Animal Ecology.*
- 2019   » *Protist.*

### Skills

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- Languages   » Native speaker: German and Italian; Fluent: English; Basic: French.
- Coding   » Primarily in R, with version control (Git)  
I have worked with Python, Matlab, Java, and C++ in the past.
- Markup   » Latex (including Sweave and knitr), Markdown, Quarto.
- Soft Skills   » Project and time management; Problem solving and critical thinking; Collaboration and adaptability; Teaching, training and consultation; Independence; (Academic) research and communication; Data analysis; Ability to learn quickly.

### References

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Available on Request.