Curriculum Vitae

Personal Data

Name	Julie Conrads
E-Mail	julie.conrads@eawag.ch
Website:	Institutional Website
Web profile:	LinkedIn

Education

09/2024 - present

Swiss Federal Institute of Aquatic Science and Technology (Eawag) / Department of Aquatic Ecology
Diploma: PhD
Project: My research focuses on their early-stage invasion dynamics in Lake Zurich, genomic pathways globally and in Switzerland, and the fecundity and fixation timing of the deep-water morph in Lake Constance, using field surveys, field experiments and genomic approaches.

09/2021 – 05/2024

University Zürich (UZH) and Eidgenössische Technische Hochschule (ETH)
Diploma: Master of Science (Grade: 5.6)
Earth System Science (90 ECTS)

Master Thesis 60 ECTS (Department of Ecology, EAWAG)
Project: Conservation genomics of the freshwater mussel *Anodonta anatina* in Switzerland (Supervisor: Alexandra Anh-Thu Weber)
- Procuring sampling permits from cantonal authorities
- Sampling of 350 mussels across Switzerland
- Laboratory work (DNA extraction, DNA quantification)
- Use of HPC Cluster Euler: quantifying genetic diversity, connectivity between populations
- Scientific writing

Defended on the 22nd of May 2024. Grade: 6

09/2017 - 09/2021

Universität Zürich (UZH)
Diploma: Bachelor of Science (Grade 4.8)
Major in Geography (120 ECTS)
Minor in Biology (60 ECTS)

Professional Experience

05/2024 – 09/2024	**Eawag (Scientific Assistant in Jokela Lab and Weber Lab)** • Project Lead in planning and execution of a benthic invertebrate survey of Lake Zurich • Sampling quagga mussels across Switzerland
10/2023 – 05/2024	**Eawag (Student Assistant in Jokela Lab)** • Assisting sampling campaigns of invasive species and native freshwater snails • Administrative work for the Dive Unit of Eawag • Assisting in selecting and conserving snails • Digitalizing dissection notes
11/2020 – 02/2024	**Glambou Retail AG** • Office Assistant to HR-Team and Office Management • Development and management of customer service structure • Sale of Glambou jewellery
09/2020 - 05/2021	**Universitätsspital Zürich during COVID-19** • Individual patient care • Accompanying patients and visitors
11/2018 - 05/2020	**Denner AG** • General merchandise management • Quality and data control • Checkout operation and billing • Customer advice and service
07/2016 - 12/2016	**Securitas AG** • Supervision service • Entry controls • Traffic service

Conferences, Seminars and Workshops

13/02/ – 14/02/2025	**Biology25 – Poster** «Benthic Macroinvertrbate Community of Lake Zurich and Obersee» Lausanne
20/03/2024	**PEAK (Praxisorientierte Eawag-Kurse)** Quaggamuschel in der Schweiz – Grundlagen und Weiterentwicklung von Präventions- und Monitoringsmassnahmen EAWAG
19/03/2024	**SeeWandel-Climate Thematic Working Group "Importance of the Quagga Mussel"** EAWAG
25/05/2023	**Fachaustausch Grossmuscheln** Netzwerk Gewässerökologie, Aarau
09/05/2023	**PEAK (Praxisorientierte Eawag-Kurse)** Gebietsfremde Arten in Schweizer Gewässern EAWAG
23/01 - 24/01/2023	**3rd Genetic Diversity Monitoring Workshop** ETH
05/12 – 09/12/2022	**Speciation genomics - Physalia Course**

- Handling NGS data from raw reads to genetic variants
- Applying basic population genetic statistics
- Visualizing genetic structure and inferring demographic history
- Identifying regions under divergent selection or barriers to gene flow

Awards

11/2024	**Hydrobiologie-Limnologie-Stiftung für Gewässerforschung** Master-Thesis: Conservation genomics of the freshwater mussel *Anodonta anatina* in Switzerland 3000 CHF

Tutoring

09/2024 – 12/2024	**Umweltbiologie Bachelors Seminarkurse at ETH** Guiding third year bachelor's students in preparing and presenting scientific topics and providing feedback.

Expertise

Languages	German (mother tongue) English (fluent in speech and writing)
Computer skills	Microsoft Office, Google Docs and Latex (Overleaf) ArcGIS and QGIS R-studio HPC bash scripting for genomic analysis
Licences	Car: Class B Boat: Class A (Military)
Diving	SSI Divemaster (200+ dives) Rescue Diver First Aid and O2 Provider Scientific diving (in training at EAWAG) (30 dives)

Interests

Hobbies	Diving in warm water Travelling Trailing with my dog (scent-work and tracking activities)