

Curriculum Vitae

Felix M. Jäger

felix.jaeger@env.ethz.ch



Education and Appointments

- 02/2024 - present **Research Visitor** at the National Center for Atmospheric Research, Boulder, Colorado, USA.
- 02/2022 – present **PhD Candidate in Land-Climate Dynamics** at the Institute for Atmospheric and Climate Science, ETH Zürich, Switzerland.
- 10/2020 – 02/2022 **Certificate Student of Environmental Studies**, Rachel Carson Center, LMU Munich, Germany.
- 10/2019 – 01/2022 **Master Degree in Physics, focus on atmospherical physics**, LMU Munich, Germany.
- 09/2020 – 01/2021 **Erasmus Semester**, focus on oceanography and renewable energy engineering at Sorbonne Université, École Polytechnique, ENS and ENSTA, Paris, France.
- 10/2015 – 09/2019 **Double Bachelor Degree in Physics and Philosophy** including two theses, LMU Munich, Germany.

Publications for Peer-Reviewed Journals

- 01/2024 **'Fire Weather Compromises Forestation-reliant Climate Mitigation Pathways'**, with J. Schwaab, S. I. Seneviratne and others, in review, <https://doi.org/10.5194/egusphere-2024-15>.
- 01/2023 **'Robust poleward jet shifts in idealised baroclinic-wave life-cycle experiments with noisy initial conditions'**, with P. Rupp and T. Birner, published in Weather and Climate Dynamics, <https://doi.org/10.5194/wcd-2022-30>.

Conference Contributions

- 03/2024 Workshop on Confronting Earth System Model Trends with Observations: The Good, the Bad, and the Ugly: On-site poster "**Forest cover changes from observation and projection to Earth System Model forcing**" with J. Schwaab and S. I. Seneviratne, Boulder, CO, USA.
- 11/2023 16th Annual Meeting of the Integrated Assessment Modeling Consortium: On-site poster '**Fire Weather Compromises Large-scale Forestation Scenarios**' with J. Schwaab, S. I. Seneviratne and others, Venice, Italy.
- 09/2023 21st International Swiss Climate School: On-site poster '**Spectral Decomposition and Filtering of Climate Responses to Land Cover Changes**' with J. Schwaab, S. De Hertog and S.I. Seneviratne, Ascona, Switzerland
- 04/2023 EGU General Assembly: On-site presentation '**Fire Weather Compromises Large-scale Afforestation Scenarios**' with J. Schwaab, S. I. Seneviratne and others, Vienna, Austria.

April 2024

- 11/2022 7th SPARC General Assembly: On-site Posters '**Uncertainty of Changes in Atmospheric Circulation from Afforestation**' with J.Schwaab and S. I. Seneviratne and '**Robust poleward jet shifts in noisy baroclinic-wave life-cycles**' with P. Rupp and T. Birner, Reading, United Kingdom.
- 06/2022 Forum on Scenarios for Climate and Societal Futures: On-site poster '**Comparing Forest to Fire Weather Projections**' with Y. Quilcaille, J. Schwaab, S.I. Seneviratne and others, Laxenburg, Austria

Teaching Experience

- 09/2023 – 02/2024, Teaching assistant for master lecture *Land-Climate Dynamics*, D-USYS, ETH
09/2022 – 02/2023 Zurich, Switzerland.
- 06/2023 Teaching assistant in master course *Climatological and hydrological field work*, D-USYS, ETH Zurich, Switzerland.
- 02/2023 – 06/2023, Tutoring in bachelor seminar *Environmental Systems*, D-USYS, ETH
02/2022 – 06/2022 Zurich, Switzerland.
- 08/2022 Correction of the exam for bachelor lecture *Atmosphere*, D-USYS, ETH Zurich, Switzerland.
- 02/2022 – 06/2022 Teaching assistant in master lecture *Climate Systems*, D-USYS, ETH Zurich, Switzerland.
- 10/2017 – 02/2018 Tutor in a *Physics Practical Course for students of medicine*, Physics Department, LMU Munich, Germany.

Awards and Grants

- 09/2023 ETH Zurich Doc.Mobility Fellowship for a 6-month stay as visiting researcher at the National Center for Atmospheric Research, Boulder, Colorado, USA.
- 09/2020 EU mobility grant Erasmus+ for a semester at Sorbonne Université, École Polytechnique, ENS and ENSTA, Paris, France.
- 07/2015 Hans Riegel Awards Physics, Second place with a term paper on experimental and theoretical assessment of light pollution around cities.
- 06/2015 Highschool Graduation Award: Admission to the German Physical Society.
- 04/2010 First place regional level, third place state level in contest of young researchers in the field of physics with an assessment of granulate behaviour in hourglasses.

Other Scientific Works and Activities

- 12/2023 **Development and organization of the institute-wide workshop** "Don't we already know enough? Missing physical understanding needed for action upon climate change", as part of the AGU Virtual Hub, Institute for Atmospheric and Climate Science, ETH Zurich, Switzerland.
- 12/2023 **Co-management of a virtual hub for the conference AGU General Assembly** in Zurich to reduce air-travel, Institute for Atmospheric and Climate Science, ETH Zurich, Switzerland.
- 09/2023 **Co-management of a week-end for experience-sharing activities among doctoral students**, Institute for Atmospheric and Climate Science, ETH Zurich, Switzerland.

- 12/2021 **'Influence of Multimodal Initial Perturbations on the Dichotomy of Baroclinic Life Cycles'**, Master Thesis in Atmospheric Physics, supervised by Prof. Dr. T. Birner, LMU Munich, Germany.
- 03/2021 **'Distributive Justice in Climate Change Mitigation Strategies - Who Optimizes, Who is to Renounce?'**, Term Paper in 'Environmental Ethics', supervised by Prof. Dr. M. Vogt, LMU Munich, Germany.
- 07/2019 **'Radiofrequency Spectroscopy of the Hyperfine Splitting in Be + Ground-State'**, Bachelor Thesis in Physics, supervised by Prof. Dr. T. Udem, LMU Munich, Germany.
- 09/2018 **'Nonlocal Causation in Classical and Quantum Potentials'**, Term Paper in the Seminar 'Foundations of Quantum Information Theory', LMU Munich, Germany.
- 07/2018 **'Is the World Nonlocal? An Assessment of Locality and Explanatory Power in Quantum Mechanics exemplarily applied to QBism'**, Bachelor Thesis in Philosophy, supervised by Prof. Dr. S. Hartmann, LMU Munich, Germany.

Presentations to a broader audience

- 06/2023 *Introduction to Climate Change* for students at Sekundarschule Regensdorf, Switzerland.
- 05/2023 *Introduction to Climate Change* for criminal law master students, University of Zurich, Switzerland.
- 07/2021 *Introduction to Weather and Climate* for the interested public at the 'Weather Day' at Deutsches Museum, Munich, Germany.

Other Skills

- IT Experience with local and cloud computation methods for data analysis and small meteorological models.
- Coding experience Skilled with office software, Linux and Windows.
Python 3 (thorough experience with applications in data analysis and visualization and experiment control systems).
R (smaller tasks and variation of existing programs).
Bash (smaller tasks and variation of existing programs).
NCL (smaller tasks and variation of existing programs).
C (1 semester project).
Fortran (variation of existing meteorological models).
- Languages German (mother tongue).
English (B2).
French (B2/C1).

Social Activities

- 09/2019 – 12/2023 Co-management of events in climate justice movements, Zurich, Switzerland.
- 11/2015 – 01/2022 Coordination in the development aid partnership with Alma Mater Hospital, Gros Morne, Haiti.
- 09/2016 – 12/2021 Leader of a youth group in the local parish, Pullach, Germany.
- 11/2015 – 02/2016 Voluntary service in Alma Mater Hospital, Gros Morne, Haiti.
- 02/2013 – 07/2016 Leader of the mass servants in the local parish, Pullach, Germany.
- 12/2011 – 07/2015 Active service as school paramedic, Pullach, Germany.