

# Curriculum Vitae

Felix M. Jäger

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## Education and Appointments

- 02/2022 – present    **PhD Candidate in Land-Climate Dynamics** at the Institute for Atmospheric and Climate Science, ETH Zürich, Switzerland.
- 02/2024 - 08/2024    **Research Visitor** at the National Center for Atmospheric Research, Boulder, Colorado, USA.
- 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

- 03/2025    **'Spectral Decomposition and Signal Separation of Climate Responses to Land Cover Changes'**, with J. Schwaab, S. I. Seneviratne and others, published in JGR Atmospheres, <https://doi.org/10.1029/2024JD042698>.
- 08/2024    **'Fire weather compromises forestation-reliant climate mitigation pathways'**, with J. Schwaab, S. I. Seneviratne and others, published in Earth System Dynamics, <https://doi.org/10.5194/esd-15-1055-2024>.
- 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

- 12/2024    AGU Annual Meeting 2024: Online poster **'Decomposition and Filtering of Simulated Climate Responses to Land Cover Changes'** with J. Schwaab, M. Bukenberger, S. De Hertog, P. Lawrence, und S. I. Seneviratne, Washington DC, USA.
- 06/2024    CESM Workshop 2024: On-site poster **'Decomposition and Filtering of Simulated Climate Responses to Land Cover Changes'** with J. Schwaab, M. Bukenberger, S. De Hertog, P. Lawrence, I. Simpson, D. Lawrence, and S. I. Seneviratne, Boulder, CO, USA.
- 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 16<sup>th</sup> 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 21<sup>st</sup> 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.
- 11/2022 7<sup>th</sup> 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

- 09/2024 – present Co-advisor of a master's thesis project in *Land-Climate Dynamics*, D-USYS, ETH Zurich, Switzerland.
- 02/2024 – 06/2024 Co-advisor of a bachelor's thesis project in *Land-Climate Dynamics*, D-USYS, ETH Zurich, Switzerland.
- 09/2023 – 02/2024, 09/2022 – 02/2023 Teaching assistant for master lecture *Land-Climate Dynamics*, D-USYS, ETH Zurich, Switzerland.
- 06/2023 Teaching assistant in master course *Climatological and hydrological field work*, D-USYS, ETH Zurich, Switzerland.
- 02/2023 – 06/2023, 02/2022 – 06/2022 Tutoring in bachelor seminar *Environmental Systems*, D-USYS, ETH 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.

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| 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

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| 09/2024             | <b>'A More Sustainable Way to Attend Distant Science Conferences'</b> , with L. Bloin-Wibe, D. Zhu and H. Wernli, published in EOS, <a href="https://doi.org/10.1029/2024EO240390">https://doi.org/10.1029/2024EO240390</a> .  |
| 12/2023             | <b>Development and organization of the institute-wide workshop</b> "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 and 12/2024 | <b>Co-management of a virtual hub for the conference AGU General Assembly</b> in Zurich to reduce air-travel, Institute for Atmospheric and Climate Science, ETH Zurich, Switzerland.  |
| 09/2023             | <b>Co-management of a week-end for experience-sharing activities among doctoral students</b> , Institute for Atmospheric and Climate Science, ETH Zurich, Switzerland.   |
| 12/2021             | <b>'Influence of Multimodal Initial Perturbations on the Dichotomy of Baroclinic Life Cycles'</b> , Master Thesis in Atmospheric Physics, supervised by Prof. Dr. T. Birner, LMU Munich, Germany.  |
| 03/2021             | <b>'Distributive Justice in Climate Change Mitigation Strategies - Who Optimizes, Who is to Renounce?'</b> , Term Paper in 'Environmental Ethics', supervised by Prof. Dr. M. Vogt, LMU Munich, Germany.   |
| 07/2019             | <b>'Radiofrequency Spectroscopy of the Hyperfine Splitting in Be + Ground-State'</b> , Bachelor Thesis in Physics, supervised by Prof. Dr. T. Udem, LMU Munich, Germany.   |
| 09/2018             | <b>'Nonlocal Causation in Classical and Quantum Potentials'</b> , Term Paper in the Seminar 'Foundations of Quantum Information Theory', LMU Munich, Germany.  |
| 07/2018             | <b>'Is the World Nonlocal? An Assessment of Locality and Explanatory Power in Quantum Mechanics exemplarily applied to QBism'</b> , Bachelor Thesis in Philosophy, supervised by Prof. Dr. S. Hartmann, LMU Munich, Germany.   |

## Presentations to a broader audience

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

## Other Skills

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| IT                | Experience with local and cloud computation methods for large data analysis as well as climatological and meteorological modeling.<br>Skilled with office software, Linux and Windows. |
| Coding experience | Python 3 (thorough experience with applications in data analysis and visualization and experiment control systems).  |

Languages	Bash, R, NCL, C, FORTRAN (small projects and variation of existing code) German (mother tongue). English (C1). French (C1).
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## **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.