

# Erik Andreas Meier Valdés

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## CURRENT POSITION

11/2024 – Present

**Swiss National Science Foundation (SNSF) Postdoc.mobility fellow**  
University of Oxford, United Kingdom

## EDUCATION

09/2020 – 09/2024

### PhD in Physics

University of Bern, Switzerland

- *Atmospheric characterisation of rocky planets using space-based spectro-photometric observations: From terrestrial exoplanets to lava worlds.*
- Supervisor: Prof. Dr. Brice-Olivier Demory.

09/2018 – 05/2020

### MSc in Experimental physics, Applied physics and Astronomy

University of Bern, Switzerland

- *Using infrared satellite imagery to compute near real-time precipitable water vapour above astronomical sites.*
- Thesis supervisor: Prof. Dr. Brice-Olivier Demory.

08/2013 – 01/2018

### BSc in Physics

Benemérita Universidad Autónoma de Puebla, Mexico

## REFEREED PUBLICATIONS

I have published 4 papers in peer-review journals as first author. I am co-author of 11 peer-reviewed papers. The papers accumulate 271 citations, and an h-index of 11. See attached list of publications.

## RESEARCH PROJECTS

- NASA James Webb Space Telescope programmes: Co-I (x6)
  - ID 7675 (PI: August, Co-PI: Buchhave, Rathcke)
  - ID 4195 (PI: Fisher)
  - ID 4126 (PI: Fisher)
  - ID 3969 (PI: Espinoza)
  - ID 3730 (PI: Diamond-Lowe, Co-PI: Mendonça)
  - ID 3279 (PI: Hoeijmakers)
- CHEOPS AO6 programme PR260007 (PI: Schlawin)
- CHEOPS Discretionary Programme PR440020 (PI: Tusay)
- TBL Neo-Narval DDT Programme 2022A\_PNP\_3\_SOPHIA-SULIS\_TBL (PI: Sulis)
- Member: ESA CHEOPS atmospheric characterisation working group.
- Member: SNSF NCCR PlanetS until 09/2024

## TALKS & POSTER PRESENTATION

- EPSC-DPS 2025, Helsinki, Finland. Talk. 09/2025
- EAS 2025, University of Cork, Ireland. Poster. 06/2025
- Université Grenoble Alpes, France. Seminar talk. 02/2025
- University of Oxford, UK. Seminar talk. 04/2024
- Rocky Worlds III, ETH Zürich, Switzerland. Talk. 01/2024
- Max Planck Institute for Astronomy, Heidelberg, Germany. Seminar talk. 11/2023
- Towards Other Earths 3, Porto, Portugal. Talk. 07/2023
- Exoclimes VI, University of Exeter, UK. Poster. 06/2023
- University of Leeds, Leeds, UK. Seminar talk. 06/2023
- Institut de Mathématiques de Bourgogne, Dijon, France. Seminar talk. 06/2023
- PlanetS JURA IV, Leissigen, Switzerland. Talk. 05/2023
- Observatoire de Genève, Switzerland. Seminar talk. 01/2023
- Rocky Worlds II, University of Oxford, UK. Poster. 08/2022
- Max Planck Institute for Astronomy, Heidelberg, Germany. Online talk. 06/2022

## WORK EXPERIENCE

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- 10.2025-Present **Student advisory and mentoring**  
• *Observational study of the disintegrating exoplanet BD+05 4868 Ab*  
MSc student Max Ryan, Christ Church College, University of Oxford
- 09/2020 – 06/2024 **Teaching assistant**  
Physics I and II for biology, geology and medicine students; Physics lab course for physics, veterinary and biology students; Advanced statistical course.  
University of Bern, Switzerland
- 03/2020 – 02/2024 **Teaching assistant, robotics course for children**  
Chlini Einsteins GmbH, Bern, Switzerland
- 02/2020 – 11/2024 **Tutor in physics and mathematics**  
TEACHY GmbH, Bern, Switzerland
- 08/2013 – 08/2018 **Tutor in physics and mathematics**  
Puebla, Mexico

## AWARDS AND SCHOLARSHIPS

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- 06/2024 **SNSF Postdoc.mobility fellowship**  
Program: *Atmospheric characterisation of hot rocky super-Earths in the era of JWST*.  
Starting date: 01.11.2024  
Funding: CHF 132'600
- 12/2023 **MERAC Funding**  
Research visit at University of Oxford: *Unraveling the nature of the super-Earth 55 Cnc e: Magnetic star-planet interaction and stellar contamination*  
Funding: CHF 1'740
- 01/10/2018 – 31/12/2019 **MSc academic scholarship**  
CONACYT (Mexican National Council for Science and Technology)  
Funding: EUR 16'350

## INSTITUTIONAL RESPONSIBILITIES

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- Co-organizer: SPIMAX seminar series, University of Oxford, 2025
- Co-founder: Exoplanet journal club, University of Bern, 2023

## LANGUAGES

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Spanish – Native language  
German – Native language  
English – Fluent  
French – Basic

## ADDITIONAL INFORMATION

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- 22/06/2023 – 24/06/2023 **ExoSLAM summer school attendance**  
University of Exeter, Exeter, UK
- 21/07/2021 – 25/07/2021 **Summer school "Astrobiology introductory course 2021" attendance**  
Online. Le Teich, France
- 29/01/2017 – 30/01/2017 **Winter school "The quantum universe" attendance**  
BUAP, Puebla, Mexico
- 12/07/2016 – 17/07/2016 **VI Mathematics summer school attendance**  
UNAM campus Juriquilla, Querétaro, Mexico