

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

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- 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

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- 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

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

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

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

LANGUAGES

Spanish – Native language

German – Native language

English – Fluent

French – Basic

ADDITIONAL INFORMATION

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