

Trent Thomas

NASA Astrobiology Institute Early Career Collaboration Award – Report

The NAI ECCA funded my travel to Switzerland to attend a workshop centered around modeling exoplanet atmospheres. The workshop was hosted by Dr. Kevin Heng, director for the Center for Space and Habitability at the University of Bern. The workshop was designed to teach students how to use the Exoclines Simulation Platform (ESP), a suite of codes designed by Dr. Heng and his group for simulating a variety of topics including: chemical kinetics, equilibrium and disequilibrium chemistry, radiative transfer, Mie scattering, atmospheric retrieval via machine learning, N-body simulation, and general circulation of atmospheres. Thanks to this workshop I can now use the ESP to further my studies of exoplanet atmospheres.

List of lecturers:

Prof. Dr. Kevin Heng (Bern)
Prof. Dr. João Mendonça (Copenhagen)
Dr. Russell Deitrick (Bern)
Dr. Matej Malik (Maryland)
Dr. Simon Grimm (Bern)
Dr. Daniel Kitzmann (Bern)
Dr. Shang-Min Tsai (Oxford)
Chloe Fisher (Bern)

Other team members present:

Dr. Pierre Auclair-Desrotour (Bern)
Andrea Guzman Mesa (Bern)
Dr. Kaustubh Hakim (Bern)
Dr. Jens Hoeijmakers (Bern/Geneva)
Sinan Li (Bern)
Maria Oreshenko (Bern)
Urs Schrottenegger (Bern)

