Biographical Sketch for Evan H. Anders

Professional Preparation

Whitworth University	Physics	BS May 2014
University of Colorado, Boulder	Astrophysics	MS December 2017
University of Colorado, Boulder	Astrophysics	PhD Expected May 2020

Appointments

NASA NESSF/FINESST Fellow	University of Colorado, Boulder	Sept 2018 –
George Ellery Hale Fellow	University of Colorado, Boulder	Sept 2015 – Aug 2018

Publications

Publications most closely related to the proposed project

- **Anders**, E. H., Lecoanet, D., & Brown, B. P., "Entropy Rain: Dilution and Compression of Thermals in Stratified Domains," 2019, *The Astrophysical Journal* 884, 1:65.
- **Anders**, E. H., Manduca, C. M., Brown, B. P., Oishi, J. S., & Vasil, G. M., "Predicting the Rossby Number in Convective experiments," 2019, *The Astrophysical Journal* 872, 2:138.
- **Anders**, E. H., Brown, B. P., & Oishi, J. S., "Accelerated evolution of convective simulations," 2018, *Physical Review Fluids* 3, 8:083502.
- **Anders**, E. H. & Brown, B. P., "Convective heat transport in stratified atmospheres at low and high Mach number," 2018, *Physical Review Fluids* 2, 8:083501.

Other Publications

- Karki, S., Tuyenbayev, D., Kandhasamy, S., Abbott, B. P., Abbott, T. D., **Anders**, E. H., Berliner, J., Betzwieser, J., Cahillane, C., Canete, L., Conley, C., Daveloza, H. P., De Lillo, N., Gleason, J. R., Goetz, E., Izumi, K., Kissel, J. S., Mendell, G., Quetschke, V., Rodruck, M., Sachdev, S., Sadecki, T., Schwinberg, P. B., Sottile, A., Wade, M., Weinstein, A. J., West, M., and Savage, R. L., "The Advanced LIGO photon calibrators," 2016, *Review of Scientific Instruments* 87, 11:114503

Synergistic Activities

- I participated in UC Santa Cruz's ISEE Professional Development Program twice, where I created and taught pedagogically-sound outreach modules to teach entering college freshmen about exoplanet transits (year 1) and buoyancy (year 2).
- I served on many committees at CU Boulder, including multiple years on the graduate admissions committee, where I led the development and use of rubrics in the graduate admissions process to ensure more equitable evaluation of applicants.
- I served as an administrator of the CU-STARS program for three years, with duties including coordinating outreach trips to high schools, mentoring undergraduates, and designing hands-on activities in exoplanetary science, black holes, and atmospheric dynamics.
- I redesigned the curriculum of, and was a co-instructor of record for, CU-Boulder's *ASTR 2600: Introduction to Scientific Programming* class during summer 2017.
- I helped mentor two undergraduate students in year-long projects; one of these projects eventually resulted in a publication (Anders, Manduca et al. 2019).

Eligibility

- I, Evan H. Anders, am a citizen of the United States of America.
- I will complete my doctoral degree in astrophysics before 1 October 2020.