**Tyler Hanke**

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(314)412-4620 ● tjhuiuc@gmail.com

**EDUCATION**

**M.S. in Atmospheric Science Aug 2020 - present**

University of Illinois at Urbana-Champaign

**B.S. in Physics Aug 2016 -May 2020**

University of Missouri at Saint Louis

**RESEARCH EXPERIENCE**

**Graduate Research Assistant Aug 2020 - present**

*Department of Atmospheric Science, University of Illinois at Urbana-Champaign*

* Assistant to Professor Cristian Proistosescu in climate feedbacks

**Undergraduate Research Assistant Aug 2017 - July 2020**

*Department of Physics, University of Missouri at Saint Louis*

* Assistant to Professor Sonya Bahar in gathering data from computational models of population dynamics where a near-mass extinction event is introduced into the system.
* Assistant to Professor Bruce Wilking conducting survey of stars and selecting likely candidates of circumstellar disks
* Assistant to Professor Erika Gibb (at times paid by NASA Missouri Space Grant) for data reduction and image processing to determine the chemical composition of comet C/2015 ER61

**TEACHING EXPERIENCE**

**High School Science Teacher February 2022 - present**

*Cherokee Central Schools*

* Created lesson plans and performed regular teaching duties for high school science courses, such as earth and environmental science, physical science, chemistry, and physics
* Attended seminars and workshops to familiarize and update North Carolina science standards

**Supplemental Instructor and Tutor Aug 2018 - July 2020**

*Department of Physics, University of Missouri at Saint Louis*

* Assisted lecturer during an introductory astronomy course for two semesters and an additional introductory electricity and magnetism course in Spring 2020
* Planned lessons and led discussion sessions outside course hours, helped with homework, gave exam study sessions, and helped proctor exams
* Served additional time tutoring beyond supplemental instructor role by leading tutoring sessions for numerous physics courses, including introductory electricity and magnetism, introductory mechanics, and 2000-level mechanics.

**CONFERENCE PRESENTATIONS**

T. Hanke, C. Proistosescu, M. Stuecker, A. Donohoe. *ENSO-induced Teleconnections on Atmospheric Radiation*. UIUC Atmospheric Sciences Departmental Seminar; April 2022; Urbana, IL.

S. Bahar, D. King, T. Hanke. *Lineage Branching During Recovery from Simulated Mass Extinction*. American Physical Society March Meeting; March 4 2020; Online. [Link to archive.](https://meetings.aps.org/Meeting/MAR20/Session/R23.11)

T. Hanke, E. Gibb. *A Study on the Release of Parent Volatiles from Comet C/2015 ER61*. Oral presentation at: NASA-MO Space Grant Consortium; April 26, 2019; Rolla, MO. [Link to archive.](https://web.mst.edu/~spaceg/2019_annual_meeting/Documents_for_website/2019_MOSGC_Abstracts_E2.pdf)

T. Hanke**,** K. Lesinski, E. Gibb. *The Study of the Release of Parent Volatiles in the Comet C/2015 ER61*. Poster presented at: UMSL Undergraduate Research Symposium; April 27, 2018; St Louis, MO. [Link to archive.](https://www.umsl.edu/studentresearch/past-symposiums/index.html)

**HONORS AND AWARDS**

Jeffrey Earl Award, University of Missouri at Saint Louis, St Louis, MO 2020

Semester Research Grant, NASA Missouri Space Grant Consortium 2018 - 2019

**REFERENCE**

| **Cristian Proistosescu**, Assistant Professor  University of Illinois at Urbana-Champaign  (217) 300-8566, [cristi@illinois.edu](mailto:cristi@illinois.edu) | **Zhuo Wang**, Professor  University of Illinois at Urbana-Champaign  (217) 244-4270, [zhuowang@illinois.edu](mailto:zhuowang@illinois.edu) |
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| **Malte Stuecker**, Assistant Professor  University of Hawai’i at Mānoa  (808) 956-9158, [stuecker@hawaii.edu](mailto:stuecker@hawaii.edu) |  |