

Joseph M. Salzer

Department of Statistics, University of Wisconsin-Madison
Email : jsalzer@wisc.edu

Madison, WI 53706
ORCHID: 0009-0009-4165-9606

EDUCATION

Doctorate of Philosophy, Statistics September 2021 to present
University of Wisconsin-Madison, Madison, WI, USA

Bachelor of Arts, Mathematical Economics August 2017 to May 2021
Temple University, Philadelphia, PA, USA

PROFESSIONAL EXPERIENCE

Research Assistant January 2023 to present
Department of Statistics, University of Wisconsin-Madison
Grants: NSF-AST-2204701 and Research Forward 2024
PI: Jessi Cisewski Kehe

Teaching Assistant September 2021 to January 2023
Department of Statistics, University of Wisconsin-Madison
Introduction to Data Modeling I (STAT 240) and II (STAT 340)

PUBLICATIONS

Moen, S., **Salzer, J.**, Cisewski-Kehe, J., Zhang, Z., “I-ACRE: An Autoregressive Conditional Extremes Model for Incomplete Panel Data with Applications to Exoplanet Detection” in prep. (Contributions were equally split among the first two authors)

Zhao, L.L., Al Moulla, K., Faria, J., et al. [incl. **Salzer, J.**] “The Extreme Stellar-Signals Project IV. State of the Field of Disentangling Solar Signals” in prep.

Kroft, M., Beatty, T.G., **Salzer, J.**, et al. “GJ 523b is a Massive, 170 Myr-old Mega-Earth, Likely on a Polar Orbit” Submitted to AJ. [Arxiv]

Salzer, J., Cisewski-Kehe, J., Ford, E.B., Zhao, L.L. “Searching for Low-Mass Exoplanets Amid Stellar Variability with a Fixed Effects Linear Model of Line-by-Line Shape Changes” 2025, AJ, 170, 179. [Paper] [Arxiv]

INTERNATIONAL AND NATIONAL MEETINGS

Great Lakes Exoplanet Area Meeting, “Disentangling Stellar Activity with Statistical Models of Local Spectral Features” (Contributed Talk), Madison, WI, November 7, 2025

Joint Statistical Meeting, “Searching for Exoplanets in Stellar Spectra: Embedding Techniques for Local Feature Shape Analysis” (Contributed Poster Presentation: Astrostatistics Interest Group), Nashville, TN, August 6, 2025

The Sixth Workshop on Extremely Precise Radial Velocities, “Line-by-line shape analysis of NEID solar data” (Contributed Talk), Porto, Portugal, July 2, 2025

Data Science Research Bazaar, “Searching for exoplanets hidden in stellar spectra” (Poster Presentation), Madison, WI, March 19, 2025

AWARDS

Finalist, ASA Astrostatistics Interest Group Student Paper Competition 2026

Diamond Research Scholar, Temple University, Mentor: Douglas Webber 2019
Awarded \$4,000 for *Institutional Responses to State and Local Appropriations*

LEADERSHIP

President of the Statistics Graduate Student Association March 2024 to present
University of Wisconsin-Madison, website: <https://sgsa.stat.wisc.edu>

Social Chair of the Statistics Graduate Student Association March 2023 to March 2024
University of Wisconsin-Madison