

# Daniel Vedensky

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## Education

- In Progress* **PhD. Statistics**, *University of Missouri*, Columbia, MO  
Dissertation: *Bayesian Hierarchical Unit-Level Models for Longitudinal Survey Data Under Informative Sampling*  
Advisor: Dr. Scott H. Holan
- 2022 **M.A. Statistics**, *University of Missouri*, Columbia, MO
- 2013 **B.A. Linguistics**, *Reed College*, Portland, OR

## Experience

- 2021–Current **Graduate Research Assistant**, *University of Missouri*, Columbia, MO
- 2020–2021 **Graduate Teaching Assistant**, *University of Missouri*, Columbia, MO
- 2013–2016 **NLP Speech Scientist**, *Nuance Communications*, Seattle, WA

## Publications

- [1] D. Vedensky, P. A. Parker, and S. H. Holan. A Look into the Problem of Preferential Sampling through the Lens of Survey Statistics. *The American Statistician*, 77(3):313–322, Nov. 2022.
- [2] D. Vedensky, P. A. Parker, and S. H. Holan. Bayesian Unit-level Models for Longitudinal Survey Data under Informative Sampling: An Analysis of Expected Job Loss Using the Household Pulse Survey, 2023. (Under Invited Revision.) arXiv:2304.07897.

## Talks

- Aug. 2023 *Bayesian Unit-level Models for Longitudinal Survey Data under Informative Sampling with Application to the Household Pulse Survey* Joint Statistical Meetings, (Topic Contributed Session), Toronto, Canada.
- Aug. 2024 *Bayesian Unit-level Modeling of Categorical Survey Data with a Longitudinal Design* Joint Statistical Meetings, (Topic Contributed Session), Portland, Oregon.

## Poster Presentations

- Sept. 2022 *An Approach to Analyzing the Household Pulse Survey using Bayesian Spatio-Temporal Unit-Level Models Under Informative Sampling* with Alex Sun, Paul A. Parker and Scott H. Holan, (O'Bayes 2022) University of California Santa Cruz.

## Awards

Aug. 2023 - Feb. 2025 U.S. Census Bureau Dissertation Fellowship.

June 2021 6<sup>th</sup> Int'l Conference on Establishment Statistics Student Contest winner.

## Service

2024-2025 UCSC/Mizzou Modern Survey Statistics Reading Group Coordinator

## Technical Skills

Languages R, Python, bash

Software Stan, Tidyverse, T<sub>E</sub>X, Emacs, vim, SLURM, git, SVN, sed/awk

## Languages

English Native

Russian Fluent