

JOHN M. NIEHAUS

Webpage: jmniehaus.github.io

GitHub: github.com/jmniehaus

EDUCATION

M.S., M.A.; Statistics, Political Science; *Texas A&M University*

B.A., Political Science, Psychology; *University of Missouri*

EMPLOYMENT

Quantitative Strategist, *Veterans United Home Loans* Jun. 2021 – Present

- Offered insights into lead routing logic, identifying a gap in existing lead routing policies for an estimated increase of 2 percentage points in loan close rates.
- Created predictive models of loan underwriting denials using machine learning techniques in order to improve loan file quality at underwriting time.
- Expanded company database by cleaning and merging disparate datasets into a more readily-usable state.
- Wrote SQL stored procedures to automate database updates.

Graduate Research Assistant, *Texas A&M University* Aug. 2016 – Jun. 2021

- Programmed an R package for estimating bivariate, zero-inflated count models
- Conducted Monte-Carlo analyses using parallel processing on high capacity research computing cluster
- Imported and cleaned data sets using R language for future statistical analyses

Replication Analyst, *Cambridge Press* Aug. 2018 – Aug. 2020

- Ensured that all code for accepted journal articles reproduced authors' scientific results
- Assisted authors in debugging their code
- Communicated with editorial staff and authors regarding article statuses

PROGRAMMING & LANGUAGES

R (advanced); **Python** (intermediate); **SQL** (advanced); **LaTeX** (advanced); **Bash** (basic); **Spanish** (advanced); **Portuguese** (intermediate)

PUBLICATIONS & WORKING PAPERS

Niehaus, John, Lin Zhu, Mikyoung Jun, and Scott Cook. "bizicount: Bivariate Zero-Inflated Count Copula Regression using R." *Invited to Resubmit*. [Manuscript link](#). [Package link](#).

Cook, Scott, John Niehaus, and Samantha Zuhlke. 2018. "A Warning on Separation in Multinomial Logistic Models." *Research & Politics*, 5(2):1–5. [Link](#).

Jo, Hyeran, and John Niehaus. "Through Rebel Eyes: Rebel groups, human rights, and humanitarian law." *Law and Contemporary Politics*, 81(4):101-120. [Link](#).