JOHN M. NIEHAUS

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EDUCATION

M.S., Statistics   2021
Texas A&M University

M.A., Political Science   2020
Texas A&M University

B.A., Political Science; Psychology   2014
University of Missouri

EMPLOYMENT

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

- Built Tableau dashboard regarding lead routing logic that ultimately lead to a complete change in company policy for the routing of a particular type of lead, with an expected increase in close rate of about 2 percentage points.
- Cleaned company data using SQL to answer key business questions.

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
- Collaborated with professors to produce peer-reviewed political science research articles

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

Community Support Specialist, *Burrell Health*   Jan. 2015 – Jun. 2015

- Assisted clients in developing and realizing behavioral health treatment goals
- Linked clients with severe mental illnesses to community resources in order to foster independence
- Offered feedback and support to clients in mental health crises
- Documented and relayed pertinent treatment information to ensure continuity of care

PROGRAMMING & LANGUAGES

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

PUBLICATIONS & WORKING PAPERS

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`.

Niehaus, John, Lin Zhu, Mikyoung Jun, and Scott Cook. "`bizicount`: Bivariate Zero-Inflated Count Copula Regression using R." Under Review. `Link`.

RELEVANT COURSEWORK

1. [†]*Multivariate Analysis and Statistical Learning* – Machine learning, dimension reduction

2. [†]*Data Mining and Analysis* – Machine learning, dimension reduction

3. [p]*Machine Learning* – Machine learning, dimension reduction

4. *Computational Tools Used for Big Data* – Intro to SQL, Bash, Python, cloud computing

5. [†]*Applied Bayesian Analysis* – Bayes Rule, MCMC sampling algorithms, hierarchical models

6. [†]*Regression Analysis* – Linear, non-linear, generalized, and principal components regression

7. [†]*Methods of Statistics I* – 2-sample and univariate stats, survival models, bootstrapping

8. [†]*Methods of Statistics II* – Experimental design and methods

9. [†]*Statistical Methods in Finance* – ARCH/GARCH, copula models, portfolio selection

10. [†]*Overview of Mathematical Statistics* – Probability theory, theory of inference

11. [†]*Applied Categorical Data Analysis* – Contingency tables, generalized linear models

12. [†]*Economic Forecasting* – Time-series & forecasting models (VAR, ECM, ADL, etc.)

13. [*]*Quantitative Political Analysis I* – OLS regression

14. [†]*Quantitative Political Analysis II* – ML estimation, GLMs, measurement error

15. [*]*Advanced Political Research Methods I* – Time-series and spatial modeling

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[†]Used R
[*]Used Stata
[p]Used Python