

# Yikai Zhao

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<https://github.com/DavidykZhao>

## EXPERIENCE

### **PUBLIC POLICY RESEARCH INSTITUTE | DATA ANALYST INTERN**

May 2018 – present | College Station, TX

- Conducted end-to-end data analysis for three large projects: Hurricane Harvey Survey data, World Value Survey and Nativism world trend (Ipsos).
- Developed an Shiny app for visualizing diverse clusters from Latent Class Modeling
- Contributed to a Python debugging open source project Pysnooper on its addition of customized parameters
- Parsed and extracted news content from Lexis-Nexis database using Beautiful Soup and Regex
- Conducted Measurement Invariance test for the Nativism variable for Ipsos global nativism survey
- Advised the design of questionnaire for Regional Health Survey in College Station, TX

### **TEXAS A&M UNIVERSITY | COURSE INSTRUCTOR**

Sept 2015 – present | College Station, TX

- Designed and instructed the course COMM308: Research Methods
- Conducted workshops on introduction to use R for data analysis and ggplot2 for visualization

## PUBLICATION & PROFESSIONAL WRITING

- Zhao, Yikai. 2018. "Testing the Measurement Invariance of Nativism," Social Science Quarterly. doi.org/10.1111/ssqu.12594
- Zhao, Yikai, Goidel, Kirby. 2018. "An Empirical Study Investigating the Increase of Social Trust in Community After Hurricane Harvey." [In progress]
- Goidel, Kirby, Davis, Nicholas, Zhao, Yikai. 2019. "Test of democracy variables across the World Value Surveys" [In progress]
- Zhao, Yikai. 2019. "More powerful NLP models: When Pytorch-transformers meets Fastai (w/ Google Colab)," Towards Data Science. (Retweeted by NLP giant Hugging Face)
- Zhao, Yikai. 2019. "The ultimate EDA visualization in R," Towards Data Science.

## EDUCATION

### **TEXAS A&M UNIVERSITY | PH.D. IN COMMUNICATION**

Expected May 2020 | College Station, TX

Advisor: Dr. Kirby Goidel

Dissertation title: What deep learning could bring to frame analysis

Won departmental dissertation advancement award \$6000

### **TEXAS A & M UNIVERSITY | M.S. IN STATISTICS**

Concentrate in Statistical learning & computation | College Station, TX

Related Coursework: ECEN 765 Machine Learning with Networks • STAT 624 Database & Computational tools

• STAT 638 Applied Bayes Methods • STAT 636 Applied Multivariate Analysis • STAT 689 Statistical computations

### **NORTH CHINA ELECTRIC POWER UNIVERSITY | BS IN ADVERTISING**

Beijing, China | Seoul, Korea | Nantou, Taiwan

## PROGRAMMING & TOOLS

### **PROGRAMMING**

Over 5000 lines:

Python • R • Shell • Pytorch

Familiar:

SQL • HTML • CSS • Django

### **COMPUTATIONAL TOOLS**

Cloud computing • Google Colab • Git

Shiny (R) • Markdown •  $\text{\LaTeX}$

ML essentials:

scikit-learn • fastai • Pytorch-transformers