

Katy Koenig

DATA SCIENCE · PUBLIC POLICY

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Education

Harris School of Public Policy & Department of Computer Science

M.S. COMPUTATIONAL ANALYSIS & PUBLIC POLICY

University of Chicago

2018 - 2020

Dietrich School of Arts & Sciences

B.S. IN ECONOMICS

MINORS IN SPANISH AND ENGLISH LITERATURE

University of Pittsburgh

2010 - 2014

Graduated Magna Cum Laude

Skills

Data analysis in R & Python
Database management & analytics
Bayesian statistics & multilevel modeling

Causal inference statistics
Machine learning in Python's scikit-learn
Web scraping/crawling in Python

Multilevel Modeling in R
NLP in Python's spaCy & gensim
Written & oral proficiency in Spanish

Experience

Formsolver

RESEARCH ASSISTANT

Chicago, IL

Oct 2019 - Present

- Conducted market research of the architecture industry for software that fosters the widespread use of energy efficient building materials.
- Applied statistical models for data imputation and forecasting of local and global markets.
- Created a MySQL database and implemented an automatic ETL process for previously gathered data.

Center for Data & Computing at the University of Chicago

SUMMER INTERN

Chicago, IL

June 2019 - Aug 2019

- Streamlined and accelerated data processing pipeline through utilizing NASA API & task parallelization for a project that applies deep learning techniques to characterize cloud images.
- Explored terabytes of hdf files to seek explanations regarding divergent observations through data visualization and statistical methods.

Center for Neighborhood Technology

TRANSPORTATION INTERN

Chicago, IL

April 2019 - June 2019

- Analyzed Chicago transportation network provider data to interpret the impact of the introduction of rideshare companies on transit equity.
- Investigated relationship between localized eviction rates and household transportation costs.

I.A. Donoso & Associates, LLC

OFFICE MANAGER

Bethesda, MD

Aug 2015 - July 2018

- Coordinated daily office activities, including case assignments, case progression, employee schedules, vendor relationships and invoicing.
- Facilitated the successful merger of law firms, including incorporating and training merged employees.
- Promoted from legal assistant position after six months at firm.

Projects & Publications

Cloud Characterization With Deep Learning II.

KURIHANA, T., FOSTER, I., MOYER, E.J., WILLETT, R., MAIRE, M., JENKINS, S., KOENIG, K. AND WERMAN, R.

In AGU Fall Meeting 2019.

Developing Unsupervised Learning Models for Cloud Classification.

JENKINS, S., MOYER, E.J., FOSTER, I., KURIHANA, T., WILLETT, R., MAIRE, M., KOENIG, K. AND WERMAN, R.

In AGU Fall Meeting 2019.

Reimagined-Vis

KATYKOENIG.GITHUB.IO/REIMAGINED-VIS/

Lint software to flag accessibility issues in data visualizations for Python's Altair library.

Ongoing Project

Predicting Urban Flow Through PageRank: A Comparative Evaluation

GITHUB.COM/KATYKOENIG/PAGERANK_URBAN_FLOW

Successfully predicted flow of rideshare trips between Chicago community areas via application of Google's PageRank algorithm variations.

Former Project