

# JXNL.CO\*

## Writing

## Publications

Liu J., Weitzman E., Chunara R.

Assessing Behavior Stage Progression from Social Media Data *Conference on Knowledge Discovery and Data Mining* **Submitted** 2016, San Francisco, CA, USA

Rehman NA, Liu J., Chunara R.

Using Propensity Score Matching to Understand the Relationship Between Online Health Information Sources and Vaccination Sentiment. *AAAI Spring Symposium*. 2016, Stanford University Palo Alto, CA, USA

## Online articles

Liu J., What is an intuitive explanation of singular value decomposition? *Quora* 2015, Waterloo, ON, Canada

## Work Experience

### StitchFix

#### Data Scientist — Algorithms (Data Labs)

- Experimenting and designed various neural networks in Chainer to study problems such as image hashing, image generation, and image labeling.
- Successfully engineered interpretable features for content based recommendation at Stitch Fix using multi-modal item embeddings (text, image, context).
- Developing dataset creation tools that minimized leakage for time series classification.
- Designed and analyzed human computation experiments to study ranking algorithms effects on human performance using mixed models.
- Presented experiment results during company all hands, special projects meetings, and technical research presentations.

## NYU Global Institute of Public Health

### Research Assistant — ChunaraLab

*Supervisor: Dr. Rumi Chunara*

- Leveraged Amazon Mechanical Turk to build an active learning pipeline for hierarchical classification using SVMs to minimize costs for dataset creation.
- Analyzed 50 million tweets to study the geographic and temporal characteristics of alcohol consumption among twitter users.
- Submitted research paper to SIGKDD Applied Data Science Track as Lead Author. (currently under review)

## Marketwired

### Data Scientist — Sysomos Labs

- Prototyped a proof-of-concept advertisement recommendation platform for offline targeted ads using multiarmed bandit algorithms.

## Areas of Interest

Classification + Social Media + Mental Health + Topic Modeling + Applied Machine Learning.

## Summary of Qualifications

### TOOLKIT

python + R + pandas + dplyr + SQL + scikit-learn + Chainer + Gensim + BeautifulSoup + Requests.

## Education

### University of Waterloo: Computational Mathematics & Statistics

Classification + Comp. Stats + Comp. Phys + Data Structures and Algorithms + Computational Linear Algebra + Generalized Linear Models + Group Theory + Real Analysis.

## Internet

[Quora](#) + [Github](#) + [Dribbble](#) + [LinkedIn](#) + [Twitter](#).

## About

I'm interested in doing meaningful research and "data science" and working on building a community of student data scientists online and at Waterloo. I'm the creator and organizer of Data Hackers, a student group of over 3000 people interested in machine learning and data science. I'm also the President of the Data Science Club this term at Waterloo where I will be hosting skills workshops to teach data manipulation, machine learning, and model evaluation.

If you're interested in contacting me for work or anything else, you can reach me at [jason@jxnل.co](mailto:jason@jxnل.co).

\* Jason Liu, but my name should be the last thing that matters.