

JXNL.CO*

Work Experience

StitchFix

Data Scientist — Algorithms (Data Labs)

- Conducting and designing experiments to understand how we can build algorithms for stylists to leverage clients with long history.
- Presented results to many stakeholders at various technical levels, stylists, leadership team, fellow data scientists.
- Exploring the application of transfer learning to estimate mappings between different representations of apparel, i.e. image features to text topic models.
- Modeled and constructed a graph visualization of data scientists based on previous research similarity and proposed various applications.
- Attempted to model client referral behavior using agent based approaches

NYU Global Institute of Public Health

Research Assistant — ChunaraLab

Supervisor: Dr. Rumi Chunara

- Worked on machine learning projects in the domain of observational studies in social media and public health.
- Leveraged Amazon Mechanical Turk to build an active learning pipeline for hierarchical classification using support vector machines
- Develop preprocessing and ingestion code for machine learning with Scikit Learn and Gensim
- Submitted research paper to SIGKDD Applied Data Science Track currently under review.

Marketwired

Data Scientist — Sysomos Labs

- Prototyped a proof of concept advertisement recommendation platform for offline targeted ads.
- Developed interfaces to community detection and Multiarmed bandit algorithm.
- Created MapReduce and Spark applications for Audience generation and various ad-hoc ETL.

Writing

Publications

Liu J., Weitzman E., Chunara R.

Assessing Behavior Stage Progression from Social Media Data *Conference on Knowledge Discovery and Data Mining* **Currently Under Review** 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

Summary of Qualifications

TECHNOLOGIES

Python + R + Spark + MongoDB + SQL.

TOOLKIT

pandas + scikit-learn + Gensim + BeautifulSoup + dplyr + Ime4 + Requests + gephi.

DEVELOPMENT

vim + git + jupyter + PyCharm + Eclipse.

Education

University of Waterloo: Computational Mathematics & Statistics

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

Internet

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

About

I created and organize [Data Hackers](#) which is collective of 2500+ people interesting in discussing data science and helping each other get smarter everyday. I'm interested in getting people excited about thinking quantitatively and leveraging our tools to tackle interesting problems, big or small.

Oh yeah, and you can reach me at jason@jxnl.co.

*why do names matter?