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EDUCATION

The University of Arizona

2014 - May 2020 (exp.)

Ph.D. in Economics (GPA: 3.9/4.0)

Renmin University of China

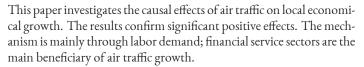
2011 - 2014

M.S. in Economics (GPA: 3.9/4.0)

Southwestern University of Finance and Economics 2007 - 2011 B.A. in Economics (GPA: 90/100)

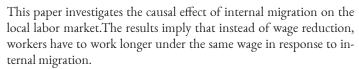
DOCTORAL RESEARCH

"Air Traffic and Urban Growth: Evidence from Airline Networks" (Job Market Paper)



- Big data manipulation and visualization on airline datasets
- K-means clustering machine learning for hub selection
- Bartik shift-share(1991) as local air traffic instrument

"The Effect of Internal Migration on Local Labor Markets Using American Cities in 1980"



"The Impact of Government Spending in the Healthcare Sector on Labor Market" (Work In Progress)

WORK EXPERIENCE

The University of Arizona

2014 - Present

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Sole Instructor, Teaching Assistant

Working cross functionally with operations to make course materials and hold discussions. Course was rated 4.7/5 for effectiveness. TA for 7 different courses. Experience organizing and preparing technical contents. Versatility to communicate clearly with both technical and nontechnical audiences.

Grameen Bank

2013

International Program Intern

Evaluating business model and operation; collaborating and identifying new growth and opportunities.

PERSONAL INFORMATION

CITIZENSHIP China, US Permanent Residency (In Progress)
LANGUAGE English (Fluent), Mandarin (Native)

COMPUTER SKILLS

Machine Learning and Deep Learning Implementation

Python (Scikit-learn/ Sklearn, TensorFlow, Keras)

Data Querying, Manipulating, Version-control

MySQL/PostgreSQL, REST, RegExr, Git, Unix/Linux

Statistical Analysis, Modeling, Prediction & Optimization

Python (NumPy, SciPy, Pandas), STATA, MATLAB, R, SAS

Data Visualization

Python (matplotlib), R (ggplot2), Spotfire, ArcGIS

Web Scraping and Automated Testing

Python (Selenium, Pandas), DOM, R

Web-application Framework

Django, Flask, WordPress, Hugo, Bootstrap 4, Docker, PHP

PROJECTS AND COURSEWORK

Introduction to Algorithms, MIT OpenCourseWare

Have strong understanding of algorithms, paradigms, data structures, performance measures and analysis technique.

Machine Learning, Stanford University

Certificate

Implement SVMs for spam classifiers, clustering & PCA to compress images, anomaly detection algorithm for network failing servers, collaborative filtering for movie recommendation.

Neural Networks and Deep Learning

Certificate

Build, train and apply fully connected deep neural networks to classify planar data and classify cat vs. non-cat pictures.

Improving Deep Neural Networks: Hyperparameter tuning, Regularization and Optimization Certificate

Optimize soccer kicking positions and hiking routes: mini-batch gradient descent, Momentum, RMSprop & Adam, L2 & dropout regularization, batch normalization, gradient checking.

Structuring Machine Learning Projects

Certificate

Diagnose and reduce errors in a ML system; apply end-to-end learning, transfer learning, and multi-task learning.

Convolutional Neural Networks

Certificate

Implement ConvNet and ResNets for object detection in autonomous driving and facial recognition; use the neural style transfer algorithm to generate novel artistic images.

Sequence Models

Certificate

Build and train RNNs, and use GRUs and LSTMs for text generation; apply sequence models to natural language processing (NLP) for text synthesis and audio applications.

Industrial Organization Models; Experimental Economics

Estimate dynamic models of consumer behavior; experience with experimental design and A/B testing.