Zekai Chen

http://zekaichen.github.io
zech_chan@gwu.edu | 202.290.6840

EDUCATION

GEORGE WASHINGTON UNIVERSITY
MS in Statistics
Expected Dec 2017 | Washington, D.C
Cum. GPA: 3.66/4.00
Conc. in Statistical Machine Learning

SHANGHAI UNIVERSITY
BS in Applied Mathematics
July 2016 | Shanghai, China
Conc. in Matrix Operation
Graduated with college honor

LINKS

Github:// **zekaichen**
LinkedIn:// **zekai-chen-0239b9126**

COURSEWORK

GRADUATE
Machine Learning
(Research Asst. & Teaching Asst)
Mathematical Statistics
Linear Regression
Nonparametric/graph Regression
Data Mining
Statistical Computing

UNDERGRADUATE
C Programming
Algorithm Design
Data Structure
Numerical Analysis

SKILLS

PROGRAMMING
Over 5000 lines:
Python • R • MySQL • Matlab • LaTeX
Over 1000 lines:
C • C++

MACHINE LEARNING FRAMEWORK
Proficient:
Scikit-Learn • Keras • Tensorflow
Familiar:
MXNet • PyTorch

CERTIFICATION
Neural Networks and Deep Learning
by deeplearning.ai on Coursera.
Certificate earned on October 8, 2017

EXPERIENCE

DIHUNI | Digital Market Research and Analytics Assistant
May 2017 - Aug 2017 | McLean, VA
- Conducted market research on market and industry trends in Internet of Things (IoT), Connected Industries, Enterprise and Consumer Markets, Artificial Intelligence
- Collected and organized data from multiple sources : online, e-mails, conversations with technology and business professionals, analysts
- Defined, Designed and Developed customer surveys and interviews & product demos and developed analytics dashboards using R/Shiny etc.

IBM | Information Analyst
Jun 2015 - Jun 2016 | Shanghai, China
- Use BI tools such as Cognos and QMF to acquire data from corresponding database, providing foundations for business analysis.
- Explore the possible data metrics that have values to the business, to better describe facts and changes, progress and trends, identify challenges and opportunities, and uncover particular business rules and principles.
- Leverage analytical skill and critical thinking capabilities to help the functional teams and business owners develop business strategies, improve decision making, adjust business operation and enhance overall business outcomes.
- Form up regular communications and maintain relationships with the business focus from worldwide to increase mutual understanding, provide timely supports on problem solving, information query, etc.

RESEARCH

ZENG LAB (COMPUTER VISION) | Research Assistant
Aug 2017 – Present | Washington, D.C
Cooperated with the medical school of Georgetown University to extract distorted DNA segments from diagnosing images. Developed machine learning method to automatically detect the DNA object and did the features analysis. Constructed AI-assisted cancer diagnosis system based on deep learning models. Recalled the panel DNA projections into a real 3D space.

HIGH-DIM INFERENCE GROUP | Research Assistant
Jan 2017 - Present | Washington, D.C
Created a faster LASSO algorithm which was based on the combination of sslasso, covariance test, Bulmann's ridge projection and post selection; Applied on shrinking the features of gene expression sequences(when p»n); Machine Learning; Statistical analysis; Data analysis

PUBLICATION

Chen, Z., Zhu, S., & Djavanshir, R. (in press). Predicting Brand Advertisement Consumption on Facebook by Model Comparison. Submitted to Journal of International Management Studies

AWARDS

Year		
2014	Meritorious Winner	The Mathematical Contest in Modeling
2014	Shanghai University	Scholarship for Academic Innovation
2013	Honorable Winner	The Mathematical Contest in Modeling