

# Zekai Chen

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## 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  $p \gg n$ ); Machine Learning; Statistical analysis; Data analysis

## PUBLICATION

Chen, Z., Zhu, S., & Djavanshir, R., "Predicting Brand Advertisement Consumption on Facebook by Model", Journal of Global Business Management, Vol. 13, Num. 2

## AWARDS

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