

## Contact

[www.linkedin.com/in/lin-zhang-a892a3b0](https://www.linkedin.com/in/lin-zhang-a892a3b0) (LinkedIn)

## Top Skills

Statistics

Statistical Modeling

Statistical Data Analysis

## Languages

English

Chinese (Simplified)

## Certifications

SAS Certified Advanced  
Programmer for SAS 9

Structuring Machine Learning  
Projects

Sequence Models

Society of Actuary - Actuarial Exam  
P, FM, MFE.

Neural Networks and Deep Learning

## Honors-Awards

Martin's Travel Award

Bernard W. Lindgren Graduate  
Student Teaching Award

# Lin Zhang

Senior Data Scientist, PhD  
Orange County, California Area

## Summary

- Senior Data Scientist in Insurance, with Green Card
- Ph.D in statistics with research interest focusing on model selection and the application to network analysis and index tracking.
- Strong analytical skills and statistical modeling and data analysis competency
- Excellent knowledge and research experience about statistical learning and model selection
- Proficient with R and Python software to do data analysis, simulation, and computing

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## Experience

First American  
Senior Data Scientist  
October 2019 - Present (6 months)  
Executive, DC

Allianz Life  
Sr Data Scientist  
June 2018 - October 2019 (1 year 5 months)  
Greater Minneapolis-St. Paul Area

Apply mathematical models to create annuities and marketing models  
Establish machine learning models to reveal causality between sales activities and insurance product premiums  
Develop algorithms to drive resource optimization and operational improvement for the Sales  
Apply deep learning techniques to characterize the profile for profit-generating annuity agents, and use the classification methods to different agents to drive a targeted training, development, and marketing strategy  
Develop an overall strategy to synthesize, visualize, and analyze data from multiple sources to deliver analytical recommendations and insights to the business

Interpret and communicate analytical results to key stakeholders, business partners, and C-suite executives to improve business intelligence and support data-driven decision-making

## University of Minnesota

### Graduate Teaching Assistant

September 2013 - May 2018 (4 years 9 months)

Minneapolis

- Assist faculty members with undergraduate and graduate statistics courses instruction, exams, record keeping, and other miscellaneous projects.
- Prepare and teach the applied statistics laboratory sessions of the assigned statistics courses, develop the lab study materials, and lead the student discussion.
- Tutor and assist students individually or in small groups during the office hours to help them master the assignments and reinforce the learning objectives.

## Allianz Life

### Intern - Enterprise Business Intelligence

May 2017 - August 2017 (4 months)

Greater Minneapolis-St. Paul Area

- Analyzed employee engagement survey data and applied least absolute shrinkage and selection regression technique to identify and characterize business/operational factors that exert significant impact on the employee engagement
- Developed a text-mining algorithm in R to discover the hot topics from the employees' narrative data and to perform analysis to track sentiment change across multiple departments over time
- Assisted HR department in synthesis of analytical/text mining models and statistical data analysis discoveries to enhance HR strategy and management communications

## Terumo Cardiovascular Group

### Intern - Statistician

May 2016 - August 2016 (4 months)

Ann Arbor MI

- Developed a SAS macro that automates the statistical computing, graphing and reporting for the Blood Loop In-Vivo Test of BPM and HSAT.

- Developed a R program that implements ASTM E2709/2810 to calculate the samples size and acceptance limits for biomedical content uniformity test.
- Conducted research on using different Kappa statistics to evaluate the within and between operators' consistency of an attribute test method. Wrote a technical report to summarize the research conclusion.
- Attended the weekly statistics group meetings and participated in the group discussion.
- Worked on other assigned study design and data analysis projects.

## Sendelta International Education Group

### Education Consultant

February 2011 - August 2011 (7 months)

Shenzhen, China

- Worked with multiple US and China education institutes to develop international partnership to promote the study abroad and exchange student program.
- Organized and presented at the international education affairs to introduce the study abroad program to the students and parents in China.
- Provided educational advises to individuals on how to apply for US college and financial aids.

## Beijing Camford International High School

### Full-time AP Instructor

August 2010 - January 2011 (6 months)

Beijing, China

- Taught the advanced placement (AP) courses in Calculus and Statistics for Chinese students who want to take the AP exam.
- Planned and developed the course syllabus, class notes, homework, and exams.
- Mentored individual students for the AP exams.

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## Education

### University of Minnesota

Doctor of Philosophy (PhD), Statistics · (2013 - 2018)

### University of Minnesota Duluth

Master of Science (M.S.), Applied and Computational Mathematics · (2011 - 2013)

Capital Normal University

Bachelor of Science (B.S.), Mathematics · (2003 - 2007)