

CAI, Zeyuan

Education Background

Undergraduate: Lanzhou University 09/2015-07/2019

Major: Mathematics and Applied Mathematics **GPA:** 4.12/5.0 **Rank:** 5/68

Core Courses: *Mathematical Analysis, Advanced Algebra, Probability Theory, Mathematical Modeling, Mathematical Statistics, Stochastic Process, Numerical Analysis, Real Analysis, Functional Analysis, etc.*

Summer Exchange: University of California, Los Angeles 08/2018-09/2018

GPA: 4.0/4.0 **Major:** Statistics

Graduate: Georgia Tech 08/2019-12/2019

Expected GPA: 4.0/4.0 **Major:** Statistics in ISyE

Courses of Interest: *Theoretical Statistics, Stochastic Process, Simulation, Optimization, etc.*

Basic Research Experiences

Dimensionality Reduction and Application Based on Mutual Information 08/2017-12/2017

- Acknowledged the data processing and application of high-dimensional data, learned methods of pre-processing and reduction analysis on high-dimensional data;
- Established relevant models, tested models with related data, analyzed their advantages, optimized algorithm.

The Differential Expressions of Logistic Growth Model 05/2017-07/2017

- Demonstrated the logistic law of Model of Preventing Increase in differential form by differential equation;
- Wrote algorithms, discussed the equilibrium point and stability of the equation, conducted numerical modeling.

C++ Implementation of Numerical Algorithm for Linear Equations 03/2016-06/2016

- Used C++ algorithm design function to program the Gaussian Elimination Method and Jacobi Iterative Method;
- Solved the linear system of equations, improved the algorithm, reduced the errors.

Internship Experiences

Seeiner Technology Co., Ltd, Hangzhou, China *Assistant Analyst* 07/2018-08/2018

- Analyzed and dig data, established models, conducted in-depth analysis based on customers' requirements;
- Wrote analysis reports, found out the implicit questions, changes and influence;
- Provided feasibility system solutions, cooperated with other teams to promote the research projects.

Competence

Main Awards Outstanding Graduates of Lanzhou University 2019
First Class Scholarship for Excellent Student 2017-2018

Computer C++; Matlab; R; Python; SQL