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*, *Partial Differential Equation,etc.*

Summer Exchange: University of California, Los Angeles 07/2018-09/2018
    GPA: 4.0/4.0   **Major**: *Statistics*

Graduate: Georgia Tech 08/2019-12/2019
    Major: Statistics in ISyE   **Expected GPA**: 4.0

Basic Research Experiences

Dimension Reduction and Application of High-Dimensional Data 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 Increasement 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, *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