Linjun Huang

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Education

Columbia University **New York, NY**
Graduate School of Arts and Sciences, Master of Arts, Statistics **Aug 2019 — Dec 2020**

- GPA: 3.918

University of California, Davis **Davis, CA**
College of Letters and Science, Bachelor of Science, Applied Mathematics **June 2019**

- GPA: 3.901
- Graduate with highest honor

Research Experiences and Publications

Columbia University **New York, NY**
Graduate Research and Research Assistant **Feb 2020 — June 2021**
Principal Investigator: Henry Lam

- Comprehensively studied the general weighted estimator, an estimator based on enhanced balancing of bias-variance tradeoff in stochastic estimation.
- Coded up a simulation for M/M/1 queueing system, a system simulating the queue length in a system having a single server time. And coded up the sample-average-based estimator, recursive estimator, and general weighted estimator using R.
- Extensively studied the numerical performance of estimators based on the simulations. The general weighted estimator outperforms the conventional estimators.

University of California, Davis **Davis, CA**
Undergraduate Research **June 2017 — Oct 2018**
Principal Investigator: Qingtian Zhang

- L. Huang, Global Solution to a Non-linear Wave Equation of Liquid Crystal in the Constant Electric Field, SIURO Vol 12, 125-153. (DOI: 10.1137/18S017557).
  - Used the variational principle to derive the partial differential equation (PDE).
  - Introduced the notation of the energy conserved weak solution for the PDE and proved the existence of the energy conserved weak solution by the method of characteristics.
- **JMM Undergraduate Student Poster Presentation**
  - Provided a poster presentation at the 2019 Joint Mathematics Meetings describing the finding during the undergraduate research and received outstanding poster presentation.

Honors

- Joint Mathematics Meeting 2019 outstanding poster presentation **Jan 2019**
- Dean's honors list, UC Davis (fall 2016, winter/spring/fall 2017, winter/spring 2018)

Skills and Knowledges

- Matlab, R, C++, python
- Linear algebra
- Linear regression models
- Deep Learning
- Statistical machine learning
- Probability and inference