# Kehan Luo (Genghis)

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 Github    in Linkedin    🌐 https://genghis-l.github.io/

## Education

2022 – 2026   🔖 **BS, New York University Shanghai**, Honors Mathematics and Data Science(AI track).
- Overall GPA: **3.97**; Honors Mathematics/Data Science(AI) GPA: **4.00**
- Researching on Machine Learning Theory & Applications (diffusion models, high-dimensional sampling, and algorithm sample complexity bounds, etc.)
- Work as **Research Assistant** for Prof. Joan Bruna and Dr. Jiequn Han, and jointly for Prof. Mathieu Lauriere. **Learning Assistant** for NYUSH Fall 2023 Linear Algebra.

## Skills

Languages   🔖 Strong reading, writing and speaking competencies for English and Native in Mandarin Chinese.

Coding & Databases   🔖 Python, Matlab, R, LaTeX, C++, Mysql, Sqlite.

## Serious Projects

2025 Jan. – Present   🔖 **Course Project**, Hamiltonian Monte Carlo: Algorithm, Theory, and Experiments (link) (github)

🔖 **Course Project**, Stochastic Convex Optimization: Learnability, Stability and Gradient Descent (link)

2024 Sep. – 2025 Dec.   🔖 **Course Project**, Adversarial Robustness Theory and Algorithms (link)

2024 May. – 2024 Sep.   🔖 **Dean Undergraduate Research Fund**, Modern Optimization Theory and Applications in Optimal Control (link)

## Leadership Activities

2024 Oct. – 2025 Jan.   🔖 **Kaggle Competition** 2025 JaneStreet Real-time Market Data Forecasting
- Leader | Top 500 Team

2023 Feb.   🔖 **Mathematical Contest in Modeling** 2023 Winter
- Team Leader | Meritorious prize (link)

2023 May. – 2024 Jun.   🔖 **Math Club**, NYUSH
- President of Math Society at 2023-2024 Academic Year (link)

## Professional Experience

2023 Jun. – 2023 Aug.   🔖 **Private Equity TMT Group Summer Intern** New Alliance Capital

## Miscellaneous Experience

### Awards and Achievements

2024   🔖 **Baosteel Scholarship**, Baosteel Education Foundation.

2022 – 2024   🔖 **Term Honor**, Dean's List for Academic Year.

### Certification

2023   🔖 **Machine Learning Specialization**, Awarded by DeepLearning.AI.