Li-Fu Chen

The University of Utah
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Education

2023–present **The University of Utah**,
Ph.D. in Mathematics (Expected Graduation: 2028).

2020–2022 **National Taiwan University**,
M.S. in Communication Engineering.

2015–2020 **National Taiwan University**,
B.S. in Electrical Engineering, Minor in Mathematics.

Workshops & Summer Schools

2024 **52nd Saint-Flour Summer School in Probability**, *Laboratoire de Mathématiques Blaise Pascal, France.*

2018 **Summer School Program**, *Institute of Mathematics, Academia Sinica*,
Course: Mathematical Signal Processing and Data Analysis.

Honors & Awards

2022 **Honorary Membership**, *The Phi Tau Phi Scholastic Honor Society of the Republic of China.*

2019 **Dr. Shih-Liang Chien Memorial Award**, *National Taiwan University.*

2015–2018 **Dean's List**, *National Taiwan University.*

Research Interests

Determinantal Point Processes, Theoretical Statistics, and High-Dimensional Probability.

Teaching Experience

2023–present **Teaching Assistant**, *Department of Mathematics, University of Utah.*
- Engineering Calculus I & II (MATH 1311 & MATH 1320)
- Differential Equations and Linear Algebra (MATH 2250)
- Vector Calculus and PDE for Engineers (MATH 3140)
- Introduction to Data Science (MATH 4100 / COMP 5360)

2025 **Instructor**, *Department of Mathematics, University of Utah.*
- Introduction to Statistical Inference (MATH 1070)

2021–2022 **Teaching Assistant**, *Department of Mathematics, National Taiwan University.*
- Calculus I & II (MATH 1203 & MATH 1204)

2020–2021 **Teaching Assistant**, *Department of Electrical Engineering, National Taiwan University.*
- Engineering Mathematics - Linear Algebra (EE 1002)
- Probability and Statistics (EE 2007)

Publications

2023 **Waveform Design for Optimal PSL Under Spectral and Unimodular Constraints via Alternating Minimization**, C.-W. Huang, L.-F. Chen, and B. Su, *IEEE Transactions on Signal Processing*, vol. 71, pp. 2518-2531.

Skills

Languages Mandarin (Native), English (Proficient)

Programming Languages R, LaTeX, MATLAB, Python