

# FRED YU-HSIANG LIN

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Department of Mathematics, University of Bonn

## EDUCATION

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<b>University of Bonn, Germany</b> PhD in Mathematics Advisor: Christioh Thiele	<i>June 2025 (expected)</i>
<b>National Taiwan University, Taiwan</b> Master in Mathematics Advisor: Chun-Yen Shen	<i>June 2021</i>
<b>National Taiwan University, Taiwan</b> Bachelor in Mathematics	<i>January 2019</i>

## PUBLICATIONS

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1. *On trilinear singular Brascamp-Lieb integrals*, Lars Becker, Polona Durcik, Fred Yu-Hsiang Lin (Preprint) (2024) <https://arxiv.org/abs/2411.00141>
2. *A short proof on the boundedness of triangular Hilbert transform along curves*, Martin Hsu, Fred Yu-Hsiang Lin (Preprint) (2024) <https://arxiv.org/abs/2410.15791>
3. *A sharp Hörmander condition for bilinear Foruier multipliers with Lipschitz singularities*, Jiao Chen, Martin Hsu, Fred Yu-Hsiang Lin (Preprint) (2024) <https://arxiv.org/abs/2403.04721>
4. *On the family of singular Brascamp-Lieb inequalities with dimensions 1,2,2, and 1*, Fred Yu-Hsiang Lin, (Accepted by **Mathematika**) (2024)
5. *Muckenhoupt-type weights and the intrinsic structure in Bessel Setting* Ji Li, Chong-Wei Liang, Fred Yu-Hsiang Lin, and Chun-Yen Shen. **Journal of Geometric Analysis** 34, 192 (2024).

## TEACHING EXPERIENCE

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TA, Real and harmonic analysis, Bonn	<i>summer 2022</i>
TA, Honor course of analysis, NTU	<i>summer 2020</i>

## TALKS

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Madison Spring School "Multilinear Singular and Oscillatory Integrals with Applications"	<i>May 2024</i>
Probability and Analysis Webinar	<i>November 2023</i>
UCLA participating analysis seminar	<i>May 2023</i>
Chapman university analysis and geometry Seminar	<i>April 2023</i>
Symposium for Young Analysts	<i>December 2020</i>
Nonlinear Phenomena in Evolutionary Partial Differential Equations	<i>April 2020</i>

## EVENTS

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Oberwolfach Arbeitsgemeinschaft(summer school) "Quantum Signal Processing and Nonlinear Fourier Analysis"	<i>October 2024</i>
Summer school "Maximal Operators and Applications"	<i>July 2024</i>
Summer school "Uniformity and Stability of Oscillatory Integrals"	<i>July 2024</i>
Matrix workshop "Harmonic Analytic Connections"	<i>May 2024</i>
Madison Lectures in Harmonic Analysis	<i>May 2024</i>

Summer school "analysis of multiple ergodic averages"	<i>October 2023</i>
Upenn study guide writing workshop	<i>August 2023</i>
Oberwolfach Workshop "Incidence Problems in Harmonic Analysis, Geometric Measure Theory, and Ergodic Theory"	<i>June 2023</i>
Summer school "nodal domains and landscape functions"	<i>October 2022</i>
Summer school "Brascamp-Lieb inequalities"	<i>October 2021</i>

## **RESEARCH VISITS**

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University of California, Los Angeles	<i>March-May 2023</i>
Purdue University	<i>June 2024</i>