

# SUJAI HIEMATH

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[sujai.github.io](https://github.com/sujai)  
[Google Scholar](#)

TL;DR

PhD student at Cornell Tech working at the intersection of causality and LLMs. My work develops sample-efficient and robust causal discovery methods, with three first-author papers (NeurIPS 2024, UAI 2025, NeurIPS 2025). Currently interning at Amazon Research Tübingen, where I released a preprint on LLM-based causal discovery within 4 months.

WORK  
EXPERIENCE

- Applied Scientist Intern** | Amazon Research Tübingen06.2025 - Present
  - Managers: [Dr. Dominik Janzing](#), [Dr. Shiva Kasiviswanathan](#), [Dr. Elke Kirschbaum](#).
  - Developed a method leveraging LLMs as unreliable experts to improve causal discovery in finite samples; released preprint in <4 months.
  - Currently investigating causal reinforcement learning approaches for sample-efficient training of LLMs in low-data regimes.
- PhD Student Researcher** | Cornell Tech11.2023 - Present
  - PIs: [Dr. Kyra Gan](#), [Dr. Promit Ghosal](#).
  - Developed 3 novel causal discovery algorithms that use diffusion models, independence tests, and nonparametric regression techniques.
  - Published 3 first-author papers at NeurIPS (2024, 2025) and UAI (2025) on improving finite-sample causal structure learning while relaxing assumptions.

PUBLICATIONS  
AND  
PREPRINTS

- Hiremath, S.\***, et al. From Guess2Graph: When and How Can Unreliable Experts Safely Boost Causal Discovery in Finite Samples? *arXiv preprint*, 2025.
- Meier, D.\* and **Hiremath, S.\***, et al. When Additive Noise Meets Unobserved Mediators: Bivariate Denoising Diffusion for Causal Discovery. *Thirty-Ninth Annual Conference on Neural Information Processing Systems*, 2025.
- Hiremath, S.\***, et al. LoSAM: Local Search in Additive Noise Models with Mixed Mechanisms and General Noise for Global Causal Discovery. *Proceedings of the Forty-first Conference on Uncertainty in Artificial Intelligence*, 2025.
- Hiremath, S.\***, et al. Hybrid Top-Down Global Causal Discovery with Local Search for Linear and Nonlinear Additive Noise Models. *Thirty-Eighth Annual Conference on Neural Information Processing Systems*, 2024.

EDUCATION

- Cornell Tech | New York, NY**2024 - 2028  
*PhD in Operations Research and Information Engineering* | GPA: 3.9 (expected)
  - Areas: AI, Causal Discovery, Causal Inference
- Cornell University | Ithaca, NY**2023 - 2024  
*PhD in Operations Research and Information Engineering*
- California Institute of Technology | Pasadena, CA**2019 - 2023  
*BS in Applied and Computational Mathematics* | GPA: 4.0
  - Areas: Machine Learning, Mathematical Modelling, Deep Learning

SERVICE &  
AWARDS

**Service:** Reviewer for NeurIPS 2025, ICLR 2025, AISTATS 2025  
**Awards:** Cornell Fellowship 2023 | Thomas J. Watson Fellowship, IBM (2019-2022) | SURF Fellowship, Caltech (2020, 2021)