

Jyun-Jie Liao

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Research Interest

Randomness in Computation, Computational Complexity, Cryptography

Education

Cornell University

Ph.D., Computer Science

Advisor: Eshan Chattopadhyay

Ithaca, New York

August, 2018 -

National Chiao-Tung University

B.S., EECS Undergraduate Honor Program

Hsinchu, Taiwan

June, 2012 - August, 2016

Experience

Academia Sinica

Research Assistant, Institute of Information Science

Supervisor: Kai-Min Chung

Taipei, Taiwan

November, 2016 - August, 2018

Publications

- **Hardness against Linear Branching Programs and More**
Eshan Chattopadhyay, Jyun-Jie Liao
[CCC 2023](#)
- **Extractors for Sum of Two Sources**
Eshan Chattopadhyay, Jyun-Jie Liao
[STOC 2022](#)
- **Affine Extractors for Almost Logarithmic Entropy**
Eshan Chattopadhyay, Jesse Goodman, Jyun-Jie Liao
[FOCS 2021](#)
- **Non-Malleability against Polynomial Tampering**
Marshall Ball, Eshan Chattopadhyay, Jyun-Jie Liao, Tal Malkin, Li-Yang Tan
[CRYPTO 2020](#)
- **Optimal Error Pseudodistributions for Read-Once Branching Programs**
Eshan Chattopadhyay, Jyun-Jie Liao
[CCC 2020](#)
- **On the Complexity of Simulating Auxiliary Input**
Yi-Hsiu Chen, Kai-Min Chung, Jyun-Jie Liao
[EUROCRYPT 2018](#)

Teaching

- **TA for Cornell CS 3410: Computer System Organization and Programming**
Fall 2018
- **TA for Cornell CS 4820: Introduction to Analysis of Algorithms**

- Spring 2019, Spring 2023
- **TA for Cornell CS 4814: Introduction to Computational Complexity**
Spring 2020, Spring 2021
- **TA for Cornell CS 2800: Discrete Structures**
Fall 2022

Service

- Reviewer for
 - Conferences: STOC, FOCS, Eurocrypt, RANDOM, ITC
 - Journals: Journal of Cryptology, Theory of Computing, Fundamenta Informaticae, TheoretCS
- Volunteer for Cornell CS URM Applicant Support Program (2022)
- Mentor for Cornell High School Programming Contest (2022)

Misc

I used to participate in competitive programming, and have obtained the following awards in International Collegiate Programming Contest (ICPC):

- 2015 ICPC Asia Pacific Regional, Jakarta site, 2nd place
- 2016 ICPC World Final, 44th place (top 50%)
- 2019 ICPC Greater New York Regional, 1st place
- 2020 ICPC North American Championship, Bronze Medal (7th place)