Jesse Goodman

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Education

Cornell University 2018 - 2023 Ph.D., Computer Science Advisor: Eshan Chattopadhyay Research Interests: Combinatorics, Complexity Theory, Cryptography, Pseudorandomness

Princeton University

B.S.E., summa cum laude, Computer Science Certificate, Applied and Computational Mathematics

Publications

Low-degree polynomials extract from local sources

Omar Alrabiah, Eshan Chattopadhyay, Jesse Goodman, Xin Li, João Ribeiro **ICALP 2022**

The space complexity of sampling Eshan Chattopadhyay, Jesse Goodman, David Zuckerman **ITCS 2022**

Affine extractors for almost logarithmic entropy Eshan Chattopadhyay, Jesse Goodman, Jyun-Jie Liao FOCS 2021

Improved extractors for small-space sources Eshan Chattopadhyay, Jesse Goodman FOCS 2021

Extractors and secret sharing against bounded collusion protocols Eshan Chattopadhyay, Jesse Goodman, Vipul Goyal, Ashutosh Kumar, Xin Li, Raghu Meka, David Zuckerman FOCS 2020

Extractors for adversarial sources via extremal hypergraphs Eshan Chattopadhyay, Jesse Goodman, Vipul Goyal, Xin Li **STOC 2020**

On the approximability of Time Disjoint Walks Alexandre Bayen, Jesse Goodman, Eugene Vinitsky

2013 - 2017

COCOA 2018, invited to special issue of Journal of Combinatorial Optimization Journal of Combinatorial Optimization 2020

Talks

Low-degree polynomials extract from local sources ICALP 2022	July 202
The space complexity of sampling ITCS 2022	February 202
Improved extractors for small-space sources FOCS 2021	February 202
Extractors and secret sharing against bounded collusion pro FOCS 2020 (with Ashutosh Kumar) Theory Seminar, Cornell University	otocols November 202 November 202
Extractors for adversarial sources via extremal hypergraphs STOC 2020 ACO Seminar, Carnegie Mellon University	June 202 May 202
On the approximability of Time Divisiont Welly	
On the approximability of Time Disjoint Walks COCOA 2018	December 201
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COCOA 2018	December 201 Summer 202
COCOA 2018 berience NTT Research , <i>Sunnyvale</i> , <i>CA</i>	Summer 202
COCOA 2018 Derience NTT Research, Sunnyvale, CA Research Intern, CIS Lab. Host: Vipul Goyal Carnegie Mellon University, Pittsburgh, PA	Summer 202 Summer 201
COCOA 2018 Derience NTT Research, Sunnyvale, CA Research Intern, CIS Lab. Host: Vipul Goyal Carnegie Mellon University, Pittsburgh, PA Visiting Scholar, Computer Science Department. Host: Vipul Goyal Google, New York, NY Software Engineering Intern, Google Research / Google Search	
COCOA 2018 Derience NTT Research, Sunnyvale, CA Research Intern, CIS Lab. Host: Vipul Goyal Carnegie Mellon University, Pittsburgh, PA Visiting Scholar, Computer Science Department. Host: Vipul Goyal Google, New York, NY Software Engineering Intern, Google Research / Google Search UC Berkeley, Berkeley, CA Sept	Summer 202 Summer 202 Summer 202

Teaching

CS 4820 : Introduction to Analysis of Algorithms (Head TA, Cornell)	Spring 2019
CS 4820 : Introduction to Analysis of Algorithms (Head TA, Cornell)	Fall 2018
MAT 375: Introduction to Graph Theory (TA, Princeton)	Spring 2017

Service and Outreach

Reviewer: STOC, FOCS, CCC, ITCS, CRYPTO, RANDOM, ISIT, ITC, ITV	V
Member: CS PhD Admissions Committee, Cornell University	2022
Volunteer: URM Applicant Support Program, Cornell University	2022
Co-organizer: Theory Tea, Cornell University	2019-2022
Chair on committee: Expand Your Horizons (EYH), Cornell University	2020
Volunteer: Girls' Adventures in Math (GAIM), Cornell University	Spring 2019
Instructor: Splash at Berkeley, UC Berkeley	Spring 2018
Instructor: Splash at Princeton, Princeton University	Spring 2017
Creator : <i>Instructacus</i> (in use by elementary school students across NY)	2014-