Jesse Goodman

jpmgoodman@cs.cornell.edu
http://cs.cornell.edu/~jpmgoodman/

Education

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

Princeton University 2013 - 2017
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

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 2022

The space complexity of sampling
ITCS 2022 February 2022

Improved extractors for small-space sources
FOCS 2021 February 2022

Extractors and secret sharing against bounded collusion protocols
FOCS 2020 (with Ashutosh Kumar) November 2020
Theory Seminar, *Cornell University* November 2020

Extractors for adversarial sources via extremal hypergraphs
STOC 2020 June 2020
ACO Seminar, *Carnegie Mellon University* May 2020

On the approximability of Time Disjoint Walks
COCOA 2018 December 2018

Experience

NTT Research, *Sunnyvale, CA* Summer 2022
Research Intern, CIS Lab. Host: Vipul Goyal

Carnegie Mellon University, *Pittsburgh, PA* Summer 2019
Visiting Scholar, Computer Science Department. Host: Vipul Goyal

Google, *New York, NY* Summer 2018
Software Engineering Intern, Google Research / Google Search

UC Berkeley, *Berkeley, CA* September 2017 - May 2018
Researcher, EECS Department. Host: Alexandre Bayen

Google, *Sunnyvale, CA* Summer 2017
Software Engineering Intern, Google Cloud

Google, *Mountain View, CA* Summer 2016
Software Engineering Intern, Network Architecture

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, ITW
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: *Instructacus* (in use by elementary school students across NY) 2014-