THOMAS JACOB MARANZATTO

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APPOINTMENTS

Postdoctoral Fellow (Hosted by Sennur Ulukus)   2024-2026
  University of Maryland College Park, ECE

EDUCATION

University of Illinois at Chicago   *2022 - 2024*
PhD Candidate, Department of Mathematics, Statistics, and Computer Science

University of Illinois at Chicago   *2020 - 2022*
MS Equivalent, Department of Mathematics, Statistics, and Computer Science

New College of Florida   *2016 - 2020*
BA, Computer Science, Mathematics Minor

PAPERS

1. **Thomas Maranzatto**. Tree Trace Reconstruction - Reductions to String Trace Reconstruction. arxiv.org/abs/2102.03173. To appear International Symposium of Information Theory (ISIT) 2024.

2. **Thomas Maranzatto**. Age of Gossip in Random and Bi-Partite Networks. arxiv.org/abs/2102.03173. To appear International Symposium of Information Theory (ISIT) 2024.

3. Xing Gao, **Thomas Maranzatto**, Lev Reyzin. A Unified Analysis of Dynamic Interactive Learning. In Proceedings of the 59th Annual Allerton Conference on Communication, Control, and Computing (Allerton), 2023.

4. Tania Roy, **Thomas Maranzatto**, Zachary Loomas. Using machine learning algorithms (supervised) to generate automatically labeled dataset for detecting digital dating abuse from text messages. The International Florida AI Research Society Conference (FLAIRS) Proceedings 36(1), 2023.

5. Tori Kraj, **Thomas Maranzatto**, Reynold Bailey, Cecilia Ovesdotter Alm, Joe Geigel. Evaluating Audience Engagement of an Immersive Performance on a Virtual Stage, Frameless: Vol. 2: Iss. 1, Article 4, 2020.

6. **Thomas Maranzatto** and Marucs Michelen, Version Age in Gossip Networks as a Percolation Process. Preprint

7. **Thomas Maranzatto**, Karoline Dubin, Marucs Michelen, Lev Reyzin. Learning DFA from Biased Walks. Preprint

TALKS

Percolation and Age of Gossip	Purdue CS Theory Seminar 2024
Combinatorics of the Age of Gossip Invariant	UIC CS Theory Seminar 2024
Age of Gossip in Random and Bi-Partite Networks	Invited Talk - University of Maryland 2024
Kruskal, Prim, and Reverse-Delete Algorithms	Guest Lecture - UIC Algorithms 1 2023
A Unified Analysis of Dynamic Interactive Learning	ALLERTON 2023
Discrete Fourier Analysis and Intersecting Families	UIC Combinatorics Seminar 2023
Automata, Computation, and Decidability	Guest Lecture - Young Scholars Program 2022
Mathematical Modelling of Disease Spread	Guest Lecture - Young Scholars Program 2022

Combinatorial Reductions in Tree Reconstruction	UIC CS Theory Seminar 2022
String and Tree Reconstruction	UIC MSCS Graduate Student Seminar 2021

AWARDS AND FELLOWSHIPS

UIC Access To Excellence Fellow	Academic Year 2024-2025 (Declined for Postdoc Appointment)
IDEAL Institute Summer Exchange Fellow	Summer 2023
IDEAL Institute Research Fellow	Spring 2023
INMAS Industry Fellow	UIUC/ R-DEX Systems Summer 2023
TRIPODS Research Fellow	Spring 2021
State Honors College Graduate	Spring 2020

TEACHING EXPERIENCE

MCS 401 Algorithms I (Grader)	UIC Fall 2023/ Spring 2022
Young Scholars Program Instructor	UIC Summer 2022
MATH 110 Pre-Calculus (TA)	UIC Spring 2023
MCS 260 Introduction to Python (TA)	UIC Fall 2022
MCS 275 Programming Tools and File Management (TA)	UIC Fall 2021
MCS 360 Introduction to Data Structures (TA)	UIC Fall 2021/ Fall 2022
MCS 401 Algorithms I (TA)	UIC Summer 2020
MATH 165 Business Calculus (TA)	UIC Fall 2020
Quantitative Resource Center (TA)	NCF Fall 2019 – Spring 2020
Object Oriented Programming (TA)	NCF Fall 2017, Fall 2018

SERVICE

UIC MSCS Computer Science Seminar	Organizer Fall 2022
UIC MSCS Computer Science Seminar	Organizer Spring 2021
NCF ACM Chapter	Co-Founder and Organizer 2018-2020

LANGUAGES

Python, C/C++, Java, SQL, English