

TEGAN WILSON

Khoury Distinguished Postdoctoral Fellow at Northeastern University

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EDUCATION

- **PhD in Computer Science**, [Cornell University](#) Earned Aug 2024
Advisor: [Robert Kleinberg](#)
- **BA in Mathematics and Computer Science**, [Carleton College](#) Sept 2014 - June 2018
Advisors: [Layla Oesper](#) and Mark Krusemeyer
- **Undergraduate Study Abroad**
[Budapest Semesters in Mathematics](#) Fall 2016
[Hokkaido International Foundation](#) Language and Homestay Program Summer 2016

PUBLICATIONS

- Nitika Saran, Daniel Amir, **Tegan Wilson**, Robert Kleinberg, Vishal Shrivastav, Hakim Weatherspoon. *Semi-Oblivious Reconfigurable Datacenter Networks*. ACM Workshop on Hot Topics in Networks (HotNets) 2024.
- Daniel Amir, Nitika Saran, **Tegan Wilson**, Robert Kleinberg, Vishal Shrivastav, Hakim Weatherspoon. *Shale: A Practical, Scalable Oblivious Reconfigurable Network*. ACM Special Interest Group on Data Communication (SIGCOMM) 2024.
- **Tegan Wilson**, Daniel Amir, Nitika Saran, Robert Kleinberg, Vishal Shrivastav, Hakim Weatherspoon. *Breaking the VLB Barrier for Oblivious Reconfigurable Networks*. ACM Symposium on Theory of Computing (STOC) 2024. ([arXiv preprint](#))
- Daniel Amir, **Tegan Wilson**, Vishal Shrivastav, Robert Kleinberg, Hakim Weatherspoon. *Scalability and Congestion Control in Oblivious Reconfigurable Networks*. ACM Special Interest Group on Data Communication (SIGCOMM) 2023 Accepted Poster.
- **Tegan Wilson**, Daniel Amir, Vishal Shrivastav, Hakim Weatherspoon, Robert Kleinberg. *Extending Optimal Oblivious Reconfigurable Networks to all N*. Algorithmic Principles of Computer Systems (APOCS) 2023.
- Daniel Amir, **Tegan Wilson**, Vishal Shrivastav, Hakim Weatherspoon, Robert Kleinberg, Rachit Agarwal. *Optimal Oblivious Reconfigurable Networks*. ACM Symposium on Theory of Computing (STOC) 2022. ([full version](#)) ([video](#))
- Jeremy D. Wendt, Richard V. Field, Jr., Cynthia A. Phillips, Arvind Prasad, **Tegan Wilson**, Sucheta Soundarajan Sanjukta Bhowmick. *Partitioning Communication Streams into Graph Snapshots*. IEEE Transactions on Network Science and Engineering, March-April 2023.
- Violet Brown, Xi Chen, Maryam Hedayati, Camden Sikes, Julia Strand, **Tegan Wilson**, David Liben-Nowell. (2019) *Node Ordering for Rescalable Network Summarization (or, the Apparent Magic of Word Frequency and Age of Acquisition in the Lexicon)*. In: Aiello L., Cherifi C., Cherifi H., Lambiotte R., Lió P., Rocha L. (eds) Complex Networks and Their Applications VII. COMPLEX NETWORKS 2018. Studies in Computational Intelligence, vol 812. Springer, Cham

INVITED TALKS

- “Random and Universal Connection Schedules for Reconfigurable Networks” at the [Workshop on Reconfigurable Networks](#), June 2025
- Guest lecture for [CS 395T](#) at UT Austin, April 2025
- “Breaking the VLB Barrier for Oblivious Reconfigurable Networks.”
 - Brown University CS Theory Seminar, Nov 2024
 - University of Wisconsin Madison CS Theory Seminar, Oct 2024
 - Northeastern University CS Theory Seminar, Oct 2024

- [Cornell Theory Seminar](#), Jan 2024
- “*Probabilistic Tail Bounds from Breaking the VLB Barrier for Oblivious Reconfigurable Networks.*”
 - University of Wisconsin Madison CS Theory Seminar, March 2025
 - Northeastern University CS Theory Seminar, Feb 2025
 - [Graduate Student Combinatorics Conference](#), March 2024.
- Invited speaker at Northwestern and TTIC [Junior Theorists Workshop](#), Fall 2023
- “*Optimal Oblivious Reconfigurable Networks.*”
 - Georgia Tech [ARC Colloquium Series](#), Feb 2024
 - Rutgers DiMACS Theory Seminar, Feb 2023.
 - Columbia University Theory Seminar, Oct 2022.
 - [Cornell Theory Seminar](#), May 2022. ([video](#))
- “*Using Exchangeable Pairs for Matrix Inequalities.*” Cornell Theory Tea, Spring 2022
- “*An Introduction to Graph Coloring Problems.*” [Women and Mathematics Ambassador Program](#), March 2019

INTERNSHIPS AND WORK EXPERIENCE

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|---|----------------------|
| • Khoury Distinguished Postdoctoral Fellow at Northeastern University | Sept 2024 - Present |
| • Sandia National Laboratory Graduate Research Intern | May 2019 - Aug 2019 |
| • NREIP Intern at the Naval Research Laboratory | June 2017 - Aug 2017 |
| • Math Assistant Systems Administrator, Carleton College | Dec 2015 - June 2018 |

TEACHING

- **At Cornell**
 - TA for CS4830: Introduction to Cryptography Fall 2022
 - Head TA for CS4820: Introduction to Analysis of Algorithms Fall 2018, Fall 2021, Spring 2022, Spring 2024
 - TA Award for Spring 2022
- **At Carleton**
 - Course grader for [selected math courses](#): 211, 236, 321, 331, and 332 2016 - 2018
 - Girls Who Code Volunteer Teacher in Northfield, MN 2016 - 2017

LEADERSHIP AND MNETORING

- Cornell Graduate Students for Gender Inclusion in Computing ([GSGIC](#))
 - Treasurer 2019 - 2021, Co-President 2021-2022, President 2022 - 2023
- Cornell CS [Student Applicant Support Program](#) Reviewer 2020-2023
- Carleton College CS Tea on Graduate School – Panelist Sept 2022
- [STOCial Program](#) Student Lunch Organizer 2022
- Women in Computing at Cornell ([WICC](#)) Mentor Fall 2021
- Cornell CS First Year PhD Mentor 2019 - 2021
- Carleton College [Lovelace](#) (Women in CS student group) Board Member 2016 - 2018
- [Lovelace](#) (Women in CS student group) and SWiMS (Society for Women in Math and Stats) Student Mentor 2017 - 2018