

# TEGAN WILSON

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Khoury Distinguished Postdoctoral Fellow at Northeastern University  
Simons Institute for Theory of Computing Research Fellow

## EDUCATION

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- **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

## EMPLOYMENT

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- Research Fellow at the Simons Institute for Theory of Computing; [Algorithmic Foundations for Emerging Computing Technologies](#) Program Sept 2025 - Dec 2025
- 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

## PUBLICATIONS

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- Shaleen Baral, Robert Kleinberg, Sylvan Martin, Henry Rogers, **Tegan Wilson**, Ruogu Zhang. *Universal Connection Schedules for Reconfigurable Networking*. To appear at ACM-SIAM Symposium on Discrete Algorithms (SODA) 2026.
- 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

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- “*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

## TEACHING

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- **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 MENTORING

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- 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