

# Sepehr Assadi

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- PROFESSIONAL EXPERIENCE
- ◇ **Assistant Professor,** September 2019 to present  
**Rutgers University,** Department of Computer Science
  - ◇ **Postdoctoral Researcher,** January 2019 to August 2019  
**Princeton University,** Department of Computer Science
    - Supported by the Simons Collaboration on Algorithms and Geometry.
  - ◇ **Summer internship at Google Research,** New York City June 2017 to August 2017
- EDUCATION
- ◇ **PhD in Computer and Information Science,** August 2013 to December 2018  
**University of Pennsylvania,** Department of Computer and Information Science
    - *Advisor:* Sanjeev Khanna
    - *Thesis:* Combinatorial Optimization on Massive Datasets: Streaming, Distributed, and Massively Parallel Computation
      - \* *EATCS Distinguished Dissertation Award*
      - \* *ACM-EATCS Principles of Distributed Computing Doctoral Dissertation Award*
      - \* *Rubinoff Dissertation Award from University of Pennsylvania*
  - ◇ **B.Sc. in Computer Engineering,** September 2008 to July 2013  
**Sharif University of Technology,** Department of Computer Engineering
    - *Thesis:* The Rectangle Escape Problem
    - *Thesis supervisor:* Hamid Zarrabi-Zadeh
- RESEARCH INTERESTS
- My primary research interest is in **theoretical foundations of big data analysis**. This in particular includes **sublinear algorithms and lower bounds** in various models of computation for processing massive datasets such as streaming, distributed communication, massively parallel computation, and sublinear time algorithms. I am also interested in communication complexity, online algorithms, and algorithmic game theory.
- HONORS AND AWARDS
- ◇ **Google Research Scholar Program Award,** 2021.
  - ◇ National Science Foundation **Faculty Early Career Development (CAREER) Award,** 2020.
  - ◇ **Best Paper Award** at International Symposium on Distributed Computing, DISC 2020.
  - ◇ ACM-EATCS Principles of Distributed Computing **Doctoral Dissertation Award,** 2019.
  - ◇ **EATCS Distinguished Dissertation Award,** 2019.
  - ◇ **Rubinoff Dissertation Award,** University of Pennsylvania, 2019.
  - ◇ **Best Paper Award** at Symposium on Discrete Algorithms, SODA 2019.
  - ◇ **Best Paper Award** at Symposium on Parallelism in Algorithms and Architectures, SPAA 2017.
  - ◇ **Best Student Paper Award** at Symposium on Principles of Database Systems, PODS 2017.
  - ◇ **Best Paper Award** at Conference on Web and Internet Economics, WINE 2015.
  - ◇ **Ranked 8<sup>th</sup>** in the Asia Regional ACM-ICPC Contest, Tehran, Iran, 2012.
  - ◇ **Gold Medal** in the Scientific Olympiad for University Students in Computer Science, Iran, 2012.
  - ◇ **Ranked 10<sup>th</sup>** in National Entrance Exam for M.Sc in Computer Science, Iran, 2010.

- TEACHING
- ◇ **Graph Streaming Algorithms and Lower Bounds** (seminar – graduate level)
    - CS 671 – Rutgers University (Fall 2020)
  - ◇ **Design and Analysis Of Data Structures And Algorithms II** (graduate level)
    - CS 514 – Rutgers University (Spring 2020, Fall 2021)
  - ◇ **Design and Analysis of Computer Algorithms** (undergraduate level)
    - CS 344 – Rutgers University (Fall 2019, Spring 2021)

PROFESSIONAL ◇ **Program Committees:**  
ACTIVITIES

- ACM Symposium on Theory of Computing (STOC 2022)
  - ACM SIAM Symposium on Discrete Algorithms (SODA 2022)
  - SIAM Symposium on Simplicity in Algorithms (SOSA 2022)
  - ACM Symposium on Principles of Distributed Computing (PODC 2021)
  - ACM Symposium on Principles of Database Systems (PODS 2021)
  - International Colloquium on Automata, Languages, and Programming (ICALP 2020)
  - ACM SIAM Symposium on Discrete Algorithms (SODA 2020)
- ◇ **Junior Program Committees:**
- ACM Conference on Economics and Computation (EC 2021)
  - Conference on Learning Theory (COLT 2021)
  - Conference on Learning Theory (COLT 2020)
- ◇ **Guest Editorships:**
- Co-editor for ACM Transactions on Algorithms (TALG) special issue for SODA, 2020
- ◇ **External Reviewer:**
- Journals:
    - SIAM Journal on Computing (SICOMP)
    - ACM Transactions on Computation Theory (TOCT)
    - ACM Transactions on Algorithms (TALG)
    - Journal of Machine Learning Research (JMLR)
    - IEEE Transactions on Parallel and Distributed Systems (TPDS)
    - Theoretical Computer Science (TCS)
  - Conferences:
    - Symposium on Theory of Computing (STOC): 2015, 2018, 2019, 2020, 2021
    - Symposium on Foundations of Computer Science (FOCS): 2018, 2019, 2020, 2021
    - Symposium on Discrete Algorithms (SODA): 2017, 2018, 2019, 2021
    - Computational Complexity Conference (CCC): 2020, 2021
    - International Colloquium on Automata, Languages, and Programming (ICALP): 2016, 2017, 2018, 2019, 2021
    - European Symposium on Algorithms (ESA): 2016, 2019, 2020, 2021
    - Innovations in Theoretical Computer Science (ITCS): 2016, 2019, 2020, 2021, 2022
    - Symposium on Principles of Distributed Computing (PODC): 2019
    - International Symposium on Distributed Computing (DISC): 2020, 2021
    - International Symposium on Theoretical Aspects of Computer Science (STACS): 2018, 2020, 2021
    - Approximation, Randomization, and Combinatorial Optimization (APPROX-RANDOM): 2017, 2018, 2019, 2021

- ◇ National Science Foundation (NSF) Panel Service for AF – Algorithms and Foundations (2020)
- ◇ External Reviewer for the Icelandic Research Fund (2021)
- ◇ Guest Reviewer for SIGACT News, 2017 (review of SPAA 2017)
- ◇ Organizer of Rutgers/DIMACS theory seminar: 2019 – present
- ◇ **Department Committees, Rutgers:**
  - Graduate committee: 2019 – present
  - PhD student admissions committee: 2019, 2020
  - M.Sc student admissions committee: 2021

#### MENTORING

- ◇ **Postdocs at Rutgers/DIMACS:**
  - Ariel Schwartzman (DIMACS postdoc, 2020 – present)
  - Nicole Wein (DIMACS postdoc, 2021 – present)
- ◇ **PhD Students at Rutgers:**
  - Chen Wang (2019 – present)
  - Vihan Shah (2020 – present)
  - Janani Sundaresan (2021 – present)
  - Parth Mittal (2021 – present)
- ◇ **Master Students at Rutgers:**
  - Chaitanya Sai Krishna (2020, now a PhD student at University of Michigan)
- ◇ **Undergraduate Students at Rutgers:**
  - Hoaian Nguyen (2021 – present)
  - Sanjana Pendharkar (2020 – 2021)
  - Polina Kochetova (2020, now a PhD student at Simon Fraser University)
  - Vihan Shah (2020, now a PhD student at Rutgers)
  - Manel Bermad (2020)
  - Jakob Degen (2020)
- ◇ **DIMACS REU Students:**
  - Glenn Sun (2021, UCLA)
  - Andrew Chen (2020, CMU, now a PhD student at Cornell)
  - Parth Mittal (2020, Charles University Prague, now a PhD student at Rutgers)
  - Pankaj Kumar (2020, Charles University Prague, now a PhD student at Charles University)
- ◇ **Visiting Undergraduate Students:**
  - Nimit Joshi (2020, VJTI Mumbai, now a PhD student at Northwestern)
  - Milind Prabhu (2020, IIT Guwhati)
- ◇ **PhD Students Worked Closely with outside of Rutgers:**
  - Soheil Behnezhad (University of Maryland, now a Motwani postdoc at Stanford)
  - Raghuvansh Saxena (Princeton, now a postdoc at Microsoft Research New England)
  - Sixue (Cliff) Liu (Princeton, now a postdoc at CMU)
  - Yu Chen (University of Pennsylvania)

- GRANTS      ◇ National Science Foundation (NSF) CAREER award CCF-2047061: \$558,159  
              ◇ Google Research Scholar Program Award: \$60,000
- JOURNAL  
PAPERS      ◇ *Tight Bounds for Single-Pass Streaming Complexity of the Set Cover Problem*  
              S. Assadi, S. Khanna, Y. Li  
              SIAM journal on Computing (SICOMP), 2021  
              Invited paper in the **special issue** for STOC 2016 papers
- ◇ *Combinatorial Auctions Do Need Modest Interaction*  
              S. Assadi  
              ACM Transactions on Economics and Computation (TEAC), 2020  
              Invited paper in the **special issue** for EC 2017 papers
- ◇ *The Stochastic Matching Problem with (Very) Few Queries*  
              S. Assadi, S. Khanna, Y. Li  
              ACM Transactions on Economics and Computation (TEAC), 2019  
              Invited paper in the **special issue** for EC 2016 papers
- ◇ *Fast Convergence in the Double Oral Auction*  
              S. Assadi, S. Khanna, Y. Li, R. Vohra  
              ACM Transactions on Economics and Computation (TEAC), 2018  
              Invited paper in the **special issue** for WINE 2015 and EC 2016 papers
- ◇ *On the Rectangle Escape Problem*  
              A. Ahmadinejad, S. Assadi, E. Emamjomeh-Zadeh, S. Yazdanbod, H. Zarrabi-Zadeh  
              Theoretical Computer Science (TCS), 2017
- ◇ *A Compile-Time Optimization Method for WCET Reduction in Real-Time Embedded Systems through Block Formation*  
              M. Mohajjel, M. Taram, S. Assadi, A. Ejlali  
              ACM Transactions on Architecture and Code Optimization (TACO), 2016
- ◇ *The Minimum Vulnerability Problem*  
              S. Assadi, E. Emamjomeh-Zadeh, A. Norouzi-Fard, S. Yazdanbod, H. Zarrabi-Zadeh  
              Algorithmica, 2014  
              Invited paper in the **special issue** for ISAAC 2012 papers
- CONFERENCE  
PAPERS      ◇ *An Asymptotically Optimal Algorithm for Maximum Matching in Dynamic Streams*  
              S. Assadi, V. Shah  
              The 13th Innovations in Theoretical Computer Science, **ITCS 2022**
- ◇ *Sublinear Time and Space Algorithms for Correlation Clustering via Sparse-Dense Decompositions*  
              S. Assadi, C. Wang  
              The 13th Innovations in Theoretical Computer Science, **ITCS 2022**
- ◇ *A Two-Pass (Conditional) Lower Bound for Semi-Streaming Maximum Matching*  
              S. Assadi  
              The 33rd Annual ACM-SIAM Symposium on Discrete Algorithms, **SODA 2022**
- ◇ *Semi-Streaming Bipartite Matching in Fewer Passes and Optimal Space*  
              S. Assadi, A. Jambulapati, Y. Jin, A. Sidford, K. Tian  
              The 33rd Annual ACM-SIAM Symposium on Discrete Algorithms, **SODA 2022**

- ◇ *Ruling Sets in Random Order and Adversarial Streams*  
S. Assadi, A. Dudeja  
International Symposium on Distributed Computing, **DISC 2021**
- ◇ *On the Robust Communication Complexity of Bipartite Matching*  
S. Assadi, S. Behnezhad  
Approximation, Randomization, and Combinatorial Optimization, **RANDOM 2021**
- ◇ *Graph Connectivity and Single Element Recovery via Linear and OR Queries*  
S. Assadi, D. Chakrabarty, S. Khanna  
European Symposium on Algorithms, **ESA 2021**
- ◇ *Fully Dynamic Set Cover via Hypergraph Maximal Matching: An Optimal Approximation Through a Local Approach*  
S. Assadi, S. Solomon  
European Symposium on Algorithms, **ESA 2021**
- ◇ *Beating Two-Thirds for Random-Order Streaming Matching*  
S. Assadi, S. Behnezhad  
48th International Colloquium on Automata, Languages and Programming, **ICALP 2021**
- ◇ *Graph Streaming Lower Bounds for Parameter Estimation and Property Testing via a Streaming XOR Lemma*  
S. Assadi, V. N  
53rd ACM Symposium on Theory of Computing, **STOC 2021**
- ◇ *Improved Truthful Mechanisms for Subadditive Combinatorial Auctions: Breaking the Logarithmic Barrier*  
S. Assadi, T. Kesselheim, S. Singla  
The 32nd Annual ACM-SIAM Symposium on Discrete Algorithms, **SODA 2021**
- ◇ *A Simple Semi-Streaming Algorithm for Global Minimum Cuts*  
S. Assadi, A. Dudeja  
The SIAM Symposium on Simplicity in Algorithms, **SOSA 2021**
- ◇ *An Auction Algorithm for Bipartite Matching in Streaming and Massively Parallel Computation Models*  
S. Assadi, C. Liu, R. Tarjan  
The SIAM Symposium on Simplicity in Algorithms, **SOSA 2021**
- ◇ *Near-Quadratic Lower Bounds for Two-Pass Graph Streaming Algorithms*  
S. Assadi, R. Raz  
The 61st IEEE Symposium on Foundations of Computer Science, **FOCS 2020**
- ◇ *Multi-Pass Graph Streaming Lower Bounds for Cycle Counting, MAX-CUT, Matching Size, and Other Problems*  
S. Assadi, G. Kol, R. Saxena, H. Yu  
The 61st IEEE Symposium on Foundations of Computer Science, **FOCS 2020**
- ◇ *Improved Bounds for Distributed Load Balancing*  
S. Assadi, A. Bernstein, Z. Langley  
International Symposium on Distributed Computing, **DISC 2020**  
**Best Paper Award**

- ◇ *Palette Sparsification Beyond  $(\Delta + 1)$  Vertex Coloring*  
N. Alon, S. Assadi  
Approximation, Randomization, and Combinatorial Optimization, **RANDOM 2020**
- ◇ *Lower Bounds for Distributed Sketching of Maximal Matchings and Maximal Independent Sets*  
S. Assadi, G. Kol, R. Oshman  
ACM Symposium on Principles of Distributed Computing, **PODC 2020**
- ◇ *Exploration with Limited Memory: Streaming Algorithms for Coin Tossing, Noisy Comparisons, and Multi-Armed Bandits*  
S. Assadi, C. Wang  
52nd ACM Symposium on Theory of Computing, **STOC 2020**
- ◇ *Separating the Communication Complexity of Truthful and Non-Truthful Combinatorial Auctions*  
S. Assadi, H. Khandeparkar, R. Saxena, M. Weinberg  
52nd ACM Symposium on Theory of Computing, **STOC 2020**  
Invited to **SICOMP special issue** for STOC 2020 papers
- ◇ *Improved Truthful Mechanisms for Combinatorial Auctions with Submodular Bidders*  
S. Assadi, S. Singla  
60th Annual IEEE Symposium on Foundations of Computer Science, **FOCS 2019**  
Invited to **SICOMP special issue** for FOCS 2019 papers  
Invited to **Highlights Beyond EC** in EC'20  
Invited research article in **SIGecom Exchanges**
- ◇ *Secretary Ranking with Minimal Inversions*  
S. Assadi, E. Balkanski, R. Paes Leme  
33rd Conference on Neural Information Processing Systems, **NeurIPS 2019**
- ◇ *Massively Parallel Algorithms for Finding Well-Connected Components*  
S. Assadi, X. Sun, O. Weinstein  
ACM Symposium on Principles of Distributed Computing, **PODC 2019**
- ◇ *Distributed Weighted Matching via Randomized Composable Coresets*  
S. Assadi, M. Bateni, V. Mirrokni  
36th International Conference on Machine Learning, **ICML 2019**
- ◇ *When Algorithms for Maximal Independent Set and Maximal Matching Run in Sublinear Time*  
S. Assadi, S. Solomon.  
46th International Colloquium on Automata, Languages and Programming, **ICALP 2019**
- ◇ *Distributed and Streaming Linear Programming in Low Dimensions*  
S. Assadi, N. Karpov, Q. Zhang.  
38th Annual ACM Symposium on Principles of Database Systems, **PODS 2019**  
Invited to **TODS special issue** for PODS 2019 papers
- ◇ *Polynomial Pass Lower Bounds for Graph Streaming Algorithms*  
S. Assadi, Y. Chen, S. Khanna.  
51st ACM Symposium on Theory of Computing, **STOC 2019**
- ◇ *A Simple Sublinear-Time Algorithm for Counting Arbitrary Subgraphs via Edge Sampling*  
S. Assadi, M. Kapralov, S. Khanna.  
10th Innovations in Theoretical Computer Science, **ITCS 2019**

- ◇ *Sublinear Algorithms for  $(\Delta + 1)$  Vertex Coloring*  
S. Assadi, Y. Chen, S. Khanna.  
30th Annual ACM-SIAM Symposium on Discrete Algorithms, **SODA 2019**  
**Best Paper Award**  
Invited to Highlights of Algorithms, **HALG 2020**
  
- ◇ *Coresets Meet EDCS: Algorithms for Matching and Vertex Cover on Massive Graphs*  
S. Assadi, M. Bateni, A. Bernstein, V. Mirrokni, C. Stein  
30th Annual ACM-SIAM Symposium on Discrete Algorithms, **SODA 2019**
  
- ◇ *Fully Dynamic Maximal Independent Set with Sublinear in  $n$  Update Time*  
S. Assadi, K. Onak, B. Schieber, S. Solomon.  
30th Annual ACM-SIAM Symposium on Discrete Algorithms, **SODA 2019**
  
- ◇ *Stochastic Submodular Cover with Limited Adaptivity*  
A. Agarwal, S. Assadi, S. Khanna.  
30th Annual ACM-SIAM Symposium on Discrete Algorithms, **SODA 2019**
  
- ◇ *Towards a Unified Theory of Sparsification for Matching Problems*  
S. Assadi, A. Bernstein.  
2nd Symposium on Simplicity in Algorithms, **SOSA 2019**
  
- ◇ *Fully Dynamic Maximal Independent Set with Sublinear Update Time*  
S. Assadi, K. Onak, B. Schieber, S. Solomon.  
50th Annual ACM Symposium on the Theory of Computing, **STOC 2018**
  
- ◇ *Tight Bounds on the Round Complexity of the Distributed Maximum Coverage Problem*  
S. Assadi, S. Khanna.  
29th Annual ACM-SIAM Symposium on Discrete Algorithms, **SODA 2018**
  
- ◇ *Randomized Composable Coreset for Matching and Vertex Cover*  
S. Assadi, S. Khanna  
29th Annual ACM Symposium on Parallelism in Algorithms and Architectures, **SPAA 2017**  
**Best Paper Award (co-winner)**  
Invited to Highlights of Algorithms, **HALG 2018**
  
- ◇ *Learning with Limited Rounds of Adaptivity: Coin Tossing, Multi-Armed Bandits, and Ranking from Pairwise Comparisons*  
A. Agarwal, S. Agarwal, S. Assadi, S. Khanna  
30th Annual Conference on Learning Theory, **COLT 2017**
  
- ◇ *Combinatorial Auctions Do Need Modest Interaction*  
S. Assadi  
18th ACM Conference on Economics and Computation, **EC 2017**  
Invited to **TEAC special issue** for EC 2017 papers
  
- ◇ *The Stochastic Matching Problem: Beating Half with a Non-Adaptive Algorithm*  
S. Assadi, S. Khanna, Y. Li  
18th ACM Conference on Economics and Computation, **EC 2017**
  
- ◇ *Tight Space-Approximation Tradeoff for the Multi-Pass Streaming Set Cover Problem*  
S. Assadi  
36th Annual ACM Symposium on Principles of Database Systems, **PODS 2017**

## Best Student Paper Award

- ◇ *On Estimating Maximum Matching Size in Graph Streams*  
S. Assadi, S. Khanna, Y. Li  
28th Annual ACM-SIAM Symposium on Discrete Algorithms, **SODA 2017**  
Invited to Highlights of Algorithms, **HALG 2017**
- ◇ *Tight Bounds for Single-Pass Streaming Complexity of the Set Cover Problem*  
S. Assadi, S. Khanna, Y. Li  
48th Annual Symposium on the Theory of Computing, **STOC 2016**  
Invited to **SICOMP special issue** for STOC 2016 papers
- ◇ *The Stochastic Matching Problem With (Very) Few Queries*  
S. Assadi, S. Khanna, Y. Li  
17th ACM Conference on Economics and Computation, **EC 2016**  
Invited to **TEAC special issue** for EC 2016 papers
- ◇ *Algorithms for Provisioning Queries and Analytics*  
S. Assadi, S. Khanna, Y. Li, V. Tannen  
19th International Conference on Database Theory, **ICDT 2016**
- ◇ *Maximum Matchings in Dynamic Graph Streams and the Simultaneous Communication Model*  
S. Assadi, S. Khanna, Y. Li, G. Yaroslavtsev  
27th Annual ACM-SIAM Symposium on Discrete Algorithms, **SODA 2016**
- ◇ *Dynamic Sketching for Graph Optimization Problems with Applications to Cut-Preserving Sketches*  
S. Assadi, S. Khanna, Y. Li, V. Tannen  
35th IARCS Annual Conference on Foundations of Software Technology and Theoretical Computer Science, **FSTTCS 2015**
- ◇ *Fast Convergence in the Double Oral Auction*  
S. Assadi, S. Khanna, Y. Li, R. Vohra  
11th Conference on Web and Internet Economics, **WINE 2015**  
**Best Paper Award**  
Invited to **TEAC special issue** for WINE 2015 and EC 2016 papers
- ◇ *Online Assignment of Heterogeneous Tasks in Crowdsourcing Markets*  
S. Assadi, J. Hsu, S. Jabbari  
3rd AAAI Conference on Human Computation & Crowdsourcing, **HCOMP 2015**
- ◇ *On The Rectangle Escape Problem*  
S. Assadi, E. Emamjomeh-Zadeh, S. Yazdanbod, H. Zarrabi-Zadeh  
25th Canadian Conference on Computational Geometry, **CCCG 2013**
- ◇ *The Minimum Vulnerability Problem*  
S. Assadi, E. Emamjomeh-Zadeh, A. Norouzi-Fard, S. Yazdanbod, H. Zarrabi-Zadeh  
23rd International Symposium on Algorithms and Computation, **ISAAC 2012**  
Invited to **Algorithmica special issue** for ISAAC 2012 papers

INVITED  
TALKS

- ◇ **Workshops and Other Events:**

- Workshop on Algorithms for Large Data (Online), WALDO 2021, “Multi-Pass Graph Streaming Lower Bounds for Parameter Estimation and Property Testing Problems”, August 2021



- INFORMS Session on Bandits Meet Optimization, “*Exploration with Limited Memory: Streaming Algorithms for Multi-Armed Bandits*”, November 2020
- Highlights of Algorithm Conference, “*Sublinear Algorithms for  $(\Delta + 1)$  Vertex Coloring*”, August 2020
- New York Area Theory Day, “*Sublinear Algorithms for  $(\Delta + 1)$  Vertex Coloring*”, May 2019
- Simons Institute meeting on Algorithms and Geometry Collaboration, “*Sublinear Algorithms for  $(\Delta + 1)$  Vertex Coloring*”, February 2019
- Simons Institute workshop on Sublinear Algorithms and Nearest-Neighbor Search, “*Sublinear Algorithms for  $(\Delta + 1)$  Vertex Coloring*”, November 2018
- Linear Sketching as a Tool for Everything workshop at FOCS’17, “*Lower Bounds for Linear Sketches of Approximate Matchings and Matrix Rank*”, October 2017

◊ **Seminars and Colloquia:**

- Rutgers Discrete math Seminar, “*Palette Sparsification for Vertex Coloring*”, October 2021
- University of Washington Theory Seminar, “*Multi-Pass Graph Streaming Lower Bounds for Parameter Estimation and Property Testing Problems*”, April 2020
- Rutgers/DIMACS Theory Seminar, “*Improved Truthful Mechanisms for Combinatorial Auctions with Submodular Bidders*”, September 2019
- MIT Theory of Computation Colloquium, “*Sublinear Algorithms for  $(\Delta + 1)$  Vertex Coloring*”, May 2019
- Cornell CS Theory Seminar, “*Sublinear Algorithms for  $(\Delta + 1)$  Vertex Coloring*”, May 2019
- Google NYC Research Seminar, “*Sublinear Algorithms for  $(\Delta + 1)$  Vertex Coloring*”, April 2019
- Princeton Theory Seminar, “*Polynomial Pass Lower Bounds in Graph Streams*”, April 2019
- Rutgers/DIMACS Theory Seminar, “*Polynomial Pass Lower Bounds in Graph Streams*”, March 2019
- TCS+ Online Seminar, “*A Simple Sublinear-Time Algorithm for Counting Arbitrary Subgraphs via Edge Sampling*”, February 2019
- Indiana Theory Seminar, “*Tight Bounds on the Round Complexity of the Distributed Maximum Coverage Problem*”, November 2017
- Columbia Theory Seminar, “*Tight Bounds on the Round Complexity of the Distributed Maximum Coverage Problem*”, October 2017
- IBM Watson Research Seminar, “*Randomized Composable Coreset for Matching and Vertex Cover*”, September 2017
- Google NYC Research Seminar, “*Learning with Limited Rounds of Adaptivity*”, July 2017
- Upenn Theory Seminar, “*Combinatorial Auctions Do Need Modest Interaction*”, April 2017
- Johns Hopkins Algorithms and Complexity Seminar, “*Matching Size and Matrix Rank Estimation in Data Streams*”, April 2017
- Google NYC Research Seminar, “*Tight Bounds for Single-Pass Streaming Complexity of the Set Cover Problem*”, November 2016
- Columbia Theory Seminar, “*Tight Bounds for Linear Sketches of Approximate Matchings*”, January 2016
- Upenn Theory Seminar, “*Tight Bounds for Linear Sketches of Approximate Matchings*”, January 2016