

# Igor Kadota

Northwestern University, Department of Electrical and Computer Engineering  
2145 Sheridan Road, Office: Tech M309, Evanston, IL 60208  
Email: kadota@northwestern.edu    Web: www.igorkadota.com

## Research Interests

**Theory:** network modelling and optimization, scheduling algorithms with performance guarantees, age-of-information, machine learning, regret analysis, multi-armed bandits, Lyapunov optimization, renewal theory, and stochastic coupling.

**Systems:** design and implementation of beyond-5G networks, Internet-of-Things (IoT), embedded networking solutions, full-duplex, millimeter-wave (mmWave), Dynamic Spectrum Access (DSA), and Software Defined Radios (SDR).

## Education

- 2016–2020 **Massachusetts Institute of Technology** (MIT), Cambridge, MA, USA  
Ph.D. in Communication Networks from MIT Laboratory for Information and Decision Systems (LIDS)  
Affiliated with the MIT Institute for Data, Systems, and Society (IDSS)  
Thesis: Age of Information in Wireless Networks - Theory and Implementation  
Advisor: Prof. Eytan Modiano  
Committee: Prof. Mohammad Alizadeh, Prof. Mor Harchol-Balter, Prof. Yin Sun, and Prof. Moe Win
- 2014–2016 **Massachusetts Institute of Technology**, Cambridge, MA, USA  
M.S. in Communication Networks from MIT LIDS  
Thesis: Transmission Scheduling of Periodic Real-Time Traffic in Wireless Networks  
Advisor: Prof. Eytan Modiano
- 2011–2013 **Aeronautics Institute of Technology** (ITA), Sao Jose dos Campos, SP, Brazil  
M.S. in Telecommunications  
Thesis: Kalman Filtering - Estimate of the Numbers of Active Queues in an 802.11e EDCA WLAN  
Advisor: Prof. Alessandro Anzaroni
- 2005–2010 **Aeronautics Institute of Technology**, Sao Jose dos Campos, SP, Brazil  
B.Sc. in Electrical Engineering

## Professional Experience

- 2023–Present **Assistant Professor**, Northwestern University, Evanston, IL, USA  
Department of Electrical and Computer Engineering
- 2020–2023 **Postdoctoral Research Scientist**, Columbia University, New York, NY, USA  
Department of Electrical Engineering and affiliated with the Data Science Institute  
Host: Prof. Gil Zussman
- Developed network control algorithms for advanced wireless systems (in particular *full-duplex*, *mmWave*, and *spectrum sharing*) using theory-based and data-driven approaches. Implemented network control algorithms in the NSF PAWR COSMOS city-scale wireless testbed.
- 2013–2014 **R&D Network Engineer**, Mectron - Defense and Technology, Sao Jose dos Campos, SP, Brazil
- Optimized network layer and data link layer algorithms for a Mobile Ad-hoc NETWORK (MANET) using cross-layer techniques. Collaborated with the Radio Frequency (RF) and the Application teams.

## Awards and Honors

- 2022 **LATInE Trailblazer in Engineering Fellow** by Purdue's College of Engineering. The Fellows were "selected not only for their outstanding scholarly achievements but also for their potential impact in expanding representation and diversity in engineering".
- 2020 **MIT School of Engineering (SoE) Graduate Student Extraordinary Teaching and Mentoring Award** given annually by the MIT SoE to a single graduate student in "recognition of demonstrated extraordinary teaching and mentoring efforts as a teaching or research assistant".
- 2019–2020 **Thomas G. Stockham Jr. Fellowship** awarded annually by the MIT SoE to a single graduate student in "recognition of outstanding academic record, exceptional background, and promising future".

- 2019 **Best Paper Award Finalist at ACM MobiHoc 2019** among 156 paper submissions.
- 2018 **Best Paper Award Winner at IEEE INFOCOM 2018** among 1,606 paper submissions. This work was featured at MIT News, ACM TechNews, Science Daily, Campus Technology, etc.
- 2018 **MIT AeroAstro Graduate Teaching Assistantship Award** given annually by the MIT Department of Aeronautics and Astronautics to a single graduate student "who has demonstrated conspicuous dedication and skill in helping fulfill a subject's educational objectives".
- 2017 & 2020 Two **Best Presentation Awards** at the MIT LIDS Student Conference in 2017 and in 2020.
- 2011–2013 **CAPES Fellowship** from the Brazilian federal agency throughout the M.S. in ITA.
- 2010 **Best Senior Thesis** of the Department of Electrical Engineering of ITA in 2010. This senior thesis was developed in collaboration with Prof. Andrea Baiocchi from *University of Rome - La Sapienza* and led to the journal publication in [J1].

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## Publications

Citations: 1,500 (source: Google Scholar on 07/04/2023).

(\*) indicates equal contribution.

### Journals

- [J6] **I. Kadota\***, D. Jacoby\*, H. Messer, G. Zussman, and J. Ostrometzky, "Switching in the Rain: Predictive Wireless x-haul Network Reconfiguration," *Proceedings of the ACM on Measurement and Analysis of Computing Systems (POMACS)*, vol. 6, no. 3, pp. 1–26, Dec. 2022. **[ACM SIGMETRICS 2023 issue] [Acceptance rate 18.3%]**
- [J5] T. Chen\*, S. Garikapati\*, A. Nagulu, A. Gaonkar, M. Kohli, **I. Kadota**, H. Krishnaswamy, and G. Zussman, "A Survey and Quantitative Evaluation of Integrated Circuit-based Antenna Interfaces and Self-Interference Cancellers for Full-Duplex," *IEEE Open Journal of the Communications Society*, Special issue on Full-Duplex Transceivers for Future Networks: Theory and Techniques, vol. 2, pp. 1753–1776, July 2021.
- [J4] **I. Kadota** and E. Modiano, "Minimizing the Age of Information in Wireless Networks with Stochastic Arrivals," *IEEE Transactions on Mobile Computing*, vol. 20, no. 3, pp. 1173–1185, Mar. 2021.
- [J3] **I. Kadota**, A. Sinha, and E. Modiano, "Scheduling Algorithms for Optimizing Age of Information in Wireless Networks with Throughput Constraints," *IEEE/ACM Transactions on Networking*, vol. 27, no. 4, pp. 1359–1372, Aug. 2019.
- [J2] **I. Kadota**, A. Sinha, E. Uysal-Biyikoglu, R. Singh, and E. Modiano, "Scheduling Policies for Minimizing Age of Information in Broadcast Wireless Networks," *IEEE/ACM Transactions on Networking*, vol. 26, no. 6, pp. 2637–2650, Dec. 2018.
- [J1] **I. Kadota**, A. Baiocchi, and A. Anzaloni, "Kalman Filtering: Estimate of the Numbers of Active Queues in an 802.11e EDCA WLAN," *Elsevier Computer Communications*, vol. 39, pp. 54–64, Feb. 2014.

### Conference Proceedings

- [C14] S. Garimella, S. Garikapati, A. Nagulu, **I. Kadota**, A. Davidson, G. Zussman, and H. Krishnaswamy, "Frequency-Domain-Equalization-Based Full-Duplex Receiver with Passive-Frequency-Shifting N-Path Filters Achieving >53dB SIC across 160MHz BW," accepted and to appear in *Proc. of IEEE RFIC*, 2023.
- [C13] V. Tripathi\*, **I. Kadota\***, E. Tal\*, M. S. Rahman, A. Warren, S. Karaman, and E. Modiano, "WiSwarm: Time-Sensitive Wireless Networking for a Collaborative Team of UAVs," accepted and to appear in *Proc. of IEEE INFOCOM*, 2023. **[Acceptance rate 19.2%]**
- [C12] P. Netalkar, A. Zahabee, C. Bastidas, **I. Kadota**, D. Stojadinovic, G. Zussman, I. Seskar, and D. Raychaudhuri, "Large-Scale Dynamic Spectrum Access with IEEE 1900.5.2 Spectrum Consumption Models," in *Proc. of IEEE WCNC*, March 2023, pp. 1–6.

- [C11] M. Kohli, A. Adhikari, G. Avci, S. Brent, J. Moser, S. Hossain, A. Dash, **I. Kadota**, R. Feick, D. Chizhik, J. Du, R. Valenzuela, and G. Zussman, “Outdoor-to-Indoor 28 GHz Wireless Measurements in Manhattan: Path Loss, Location Impacts, and 90% Coverage,” in Proc. of ACM MobiHoc, Oct. 2022, pp. 201-210. **[Acceptance rate 19.8%]**
- [C10] D. Stojadinovic, P. Netalkar, C. Bastidas, **I. Kadota**, G. Zussman, I. Seskar, and D. Raychaudhuri, “A Spectrum Consumption Model-based Framework for DSA Experimentation on the COSMOS Testbed,” in Proc. of ACM MobiCom WiNTECH Workshop, Jan. 2022, pp. 77–84.
- [C9] E. Atay, **I. Kadota**, and E. Modiano, “Aging Wireless Bandits: Regret Analysis and Order-Optimal Learning Algorithm,” in Proc. of WiOpt, Oct. 2021, pp. 1–8.
- [C8] **I. Kadota**, M. S. Rahman, and E. Modiano, “WiFresh: Age-of-Information from Theory to Implementation,” in Proc. of IEEE ICCCN, Aug. 2021, pp. 1–11. [Invited paper]
- [C7] **I. Kadota** and E. Modiano, “Age of Information in Random Access Networks with Stochastic Arrivals,” in Proc. of IEEE INFOCOM, May 2021, pp. 1–10. **[Acceptance rate 19.9%]**
- [C6] A. Nagulu\*, S. Garikapati\*, M. Essawy, **I. Kadota**, T. Chen, A. Natarajan, G. Zussman, and H. Krishnaswamy, “Full-Duplex Receiver with Wideband Multi-Domain FIR Cancellation Based on Stacked-Capacitor, N-path Switched-Capacitor Delay Lines Achieving  $> +54\text{dB}$  SIC Across 80MHz BW and  $> +15\text{dBm}$  TX Power Handling,” in Proc. of IEEE ISSCC, Feb. 2021, pp. 100–102.
- [C5] **I. Kadota** and E. Modiano, “Minimizing the Age of Information in Wireless Networks with Stochastic Arrivals,” in Proc. of ACM MobiHoc, July 2019, pp. 221–230. **[Best Paper Award Finalist] [Acceptance rate 23.7%]**
- [C4] R. Talak, **I. Kadota**, S. Karaman, and E. Modiano, “Scheduling Policies for Age Minimization in Wireless Networks with Unknown Channel State,” in Proc. of IEEE ISIT, June 2018, pp. 2564–2568.
- [C3] **I. Kadota**, A. Sinha, and E. Modiano, “Optimizing Age of Information in Wireless Networks with Throughput Constraints,” in Proc. of IEEE INFOCOM, April 2018, pp. 1844–1852. **[Best Paper Award Winner] [Acceptance rate 19.2%]**
- [C2] **I. Kadota**, E. Uysal-Biyikoglu, R. Singh, and E. Modiano, “Minimizing Age of Information in Broadcast Wireless Networks,” in Proc. of IEEE Allerton, Sept. 2016, pp. 844–851.
- [C1] K. Kim, C. Li, **I. Kadota**, and E. Modiano, “Optimal Scheduling of Real-Time Traffic in Wireless Networks with Delayed Feedback,” in Proc. of IEEE Allerton, Sept. 2015, pp. 1143–1149.

## Theses

- [T2] **I. Kadota**, “Age of Information in Wireless Networks: Theory and Implementation,” Ph.D. thesis, Dept. of Aeronautics and Astronautics, MIT, Sept. 2020.
- [T1] **I. Kadota**, “Transmission Scheduling of Periodic Real-Time Traffic in Wireless Networks,” M.S. thesis, Dept. of Aeronautics and Astronautics, MIT, Sept. 2016.

## Book

- [B1] Y. Sun, **I. Kadota**, R. Talak, and E. Modiano, *Age of Information: A New Metric for Information Freshness*. Morgan & Claypool, 2019.

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## Patent

- [P1] J. Ostrometzky, G. Zussman, H. Messer, D. Jacoby, and **I. Kadota**. Predictive Weather-Aware Communication Network Management. US Patent Application No. 17/551,643. December 2021. <https://patents.google.com/patent/US20220110012A1/en>

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## Grant Writing

- 2022 **NSF RINGS**, “RINGS: Enabling Wireless Edge-cloud Services via Autonomous Resource Allocation and Robust Physical Layer Technologies”
  - Result: Proposal awarded \$850,000 by the National Science Foundation (NSF)
  - Role: Senior Personnel (PIs: Prof. Eytan Modiano (MIT) and Prof. Gil Zussman (Columbia))

- 2022 **NSF SII-NRDZ**, “Collaborative Research: SII-NRDZ: Spectrum Sharing via Consumption Models and Telemetry - Prototyping and Field Testing in an Urban FCC Innovation Zone”
- Result: Proposal awarded \$1,250,000 by the National Science Foundation (NSF)
  - Contribution: Assisted in writing the proposal (PIs: Profs. Carlos C. Bastidas (Syracuse), Gil Zussman (Columbia), Barry Gross (CUNY), Fred Moshary (CUNY), Ivan Seskar (Rutgers), Dipankar Raychaudhuri (Rutgers), Tingjun Chen (Duke), and Kyle Jamieson (Princeton))
- 2019 **ARO DURIP**, “Wireless Networking Testbed for Low Latency Mission Critical Communications”
- Result: Proposal awarded by the Army Research Office (ARO) and SDR testbed built at MIT
  - Contribution: Assisted in writing the proposal (PI: Prof. Eytan Modiano (MIT))

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## Student Advising

### 2022–2023 **Co-advised M.S. theses at Columbia University:**

- Aditya Jolly. M.S. at Columbia University, Department of Electrical Engineering, 2023. Thesis title: Real-Time Adaptive Wideband Full Duplex Radios.
- Trevor Joseph Gordon. M.S. at Columbia University, Department of Electrical Engineering, 2023. Thesis title: Towards Real-World Dynamic Spectrum Access Using Deep Reinforcement Learning.

### 2018–Present **Supervised M.S. research projects:**

- Richard Chu, Columbia EE, Summer 2023.
- Aditya Jolly, Columbia EE, 2022–2023. **Coauthor in [PD7], [PD8], and [PD9]**, and paper in preparation on full-duplex as part of the FlexCoN project. First position: Engineer at Qualcomm.
- Trevor Joseph Gordon, Columbia EE, 2022–2023. Coauthor of paper in preparation on dynamic spectrum sharing. First position: Software Engineer at Google.
- Asha Kiran Cherukuri, Columbia EE, 2022–2023. Coauthor of paper in preparation on dynamic spectrum sharing. First position: RF Engineer at Lockheed Martin.
- Leoni Lu, Columbia EE, 2022–2023. Coauthor of paper in preparation on mmWave. Received the **Women in Spectrum Scholarship** from the National Spectrum Consortium. Received the **2023 MS Research Award** from Columbia EE. First position: Engineer at Qualcomm.
- Vijay Kalmath, Columbia Data Science, Spring 2022. First position: ML Engineer at Lexalytics.
- Saravanan Govindarajan, Columbia EE, 2021. Coauthor of paper in preparation on mmWave. Received the **2022 MS Research Award** from Columbia EE. First position: ML Engineer at Meta.
- Perry Flamer, Columbia EE, 2021. Coauthor of paper in preparation on mmWave. First position: Electrical Engineer at MaXentric.
- Azhaan Zahabee, Columbia CS, Fall 2021. **Coauthor in [C12]**. First position: Software Engineer at Amazon Web Services.
- Lisa Zahray, MIT EECS, Spring 2018. First position: Ph.D. candidate at Georgia Tech.

### 2017–Present **Supervised undergraduate research projects:**

- Irfan Tamim, Columbia EE, Summer 2023.
- Zachary Hine, Columbia CS, Spring 2023 and Summer 2023.
- Kaya Celebi, Duke University CS and Stats, Fall 2021 and 2022–2023. Coauthor of paper in preparation on mmWave. NSF REU program. First position: Analyst at Morgan Stanley.
- Eray Unsal Atay, Bilkent University EE and Math, Fall 2020. **Coauthor in [C9]**. First position: Ph.D. candidate at Caltech.
- Yosef Mihretie, MIT EECS and Physics, Spring 2020.
- Alexander Warren, MIT EECS, 2020. **Coauthor in [C13]**.
- Muhammad Shahir Rahman, MIT EECS, 2019 and 2020. **Coauthor in [C13], [C8], and [PD1]**. First position: Ph.D. candidate at Stanford.
- Sean Gloumeau, MIT AeroAstro, Fall 2019.
- Timothy Cardona, MIT EECS and Physics, Spring 2019. First position: Data Scientist at BlackRock.
- Lilly Clark, MIT AeroAstro, Fall 2017 and Spring 2018. First position: Ph.D. candidate at USC.

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## Talks, Tutorials, and Lectures

- 2023 Switching in the Rain: Predictive Wireless x-haul Network Reconfiguration
- Talk at ACM SIGMETRICS

- 2023 Wireless Networks for Future Applications: from Networks of Drones to Adaptive Control of ICs
  - Invited talk at University of California Los Angeles, Electrical and Computer Engineering Department
  - Invited talk at Northeastern University, Department of Electrical and Computer Engineering
  - Invited talk at Carnegie Mellon University, Department of Electrical and Computer Engineering
  - Invited talk at University of Virginia, Department of Electrical and Computer Engineering
  - Invited talk at Northwestern University, Department of Electrical and Computer Engineering
  - Invited talk at New York University, Department of Electrical and Computer Engineering
  - Invited talk at Virginia Tech, Department of Computer Science
  - Invited talk at Rensselaer Polytechnic Institute, Department of Electrical, Computer, and Systems Engineering
- 2022 Spectrum Sharing via Consumption Models
  - Invited talk at Rutgers University, WINLAB Research Review, hosted by Prof. Dipankar Raychaudhuri
- 2022 Full-Duplex Communication: System Design and Implementation
  - Lecture in the Columbia University course “Seminar in Information and Communication Theories”.
- 2021–2022 Wireless Networks for Emerging Time-Sensitive Applications: Theory and Systems
  - Invited talk at University of Washington, Department of Electrical and Computer Engineering, hosted by Prof. Payman Arabshahi, 2022
  - Invited talk at Cornell Tech and Cornell University, School of Electrical and Computer Engineering, hosted by Prof. Mert Sabuncu, 2022
  - Invited talk at Columbia University, CS Systems Seminar, hosted by Prof. Asaf Cidon, 2022
  - Invited talk at Yale, Department of Electrical Engineering, hosted by Prof. Steve Morse, 2021
- 2019–2022 WiFresh: Age-of-Information from Theory to Implementation
  - Invited talk at UM6P (Morocco), CS Research Seminars, hosted by Prof. El Mehdi Amhoud and Prof. Karima Echihabi, 2022
  - Invited talk at METU (Turkey), EE Graduate Seminar, hosted by Prof. Elif Uysal-Biyikoglu, 2021
  - Talk at IEEE ICCCN, 2021
  - Invited talk at MIT, LIDS Student Conference, 2020 **[Best Presentation Award]**
  - Invited talk at UPenn, hosted by Prof. Shirin Bidokhti, 2020
  - Invited talk at Harvard, ISS Seminar, hosted by Prof. Flavio du Pin Calmon, 2019
  - Invited talk at WPI, ECE Graduate Seminar, hosted by Prof. D. Richard Brown, 2019
  - Invited talk at MIT, hosted by the Society for Applied and Industrial Mathematics, 2019
- 2021 Aging Wireless Bandits: Regret Analysis and Order-Optimal Learning Algorithm
  - Talk at WiOpt
- 2021 Age of Information in Random Access Networks with Stochastic Arrivals
  - Talk at IEEE INFOCOM
- 2016 & 2020 Index Policies: Gittins and Whittle Indices
  - Invited talk at CMU SQUALL Seminar, hosted by Prof. Mor Harchol-Balter, 2020
  - Tutorial at MIT CNRG group meeting, hosted by Prof. Eytan Modiano, 2016
- 2020 Age of Information: Definition, Analysis, and Applications
  - Lecture in the Columbia University course “Queueing Networks”.
- 2020 Age-of-Information in Wireless Networks: Theory and Implementation
  - MIT Ph.D. doctoral thesis defense
- 2019 Minimizing the Age of Information in Wireless Networks with Stochastic Arrivals
  - Talk at ACM MobiHoc
- 2017–2019 Quantization: Theory and Implementation
  - Lecture in the MIT course “Communication Systems & Networks”.
- 2016–2019 The Data Link Layer: Automatic Repeat Request Protocols
  - Lecture in the MIT course “Communication Systems & Networks”.
- 2017 & 2018 Optimizing Age of Information in Wireless Networks with Throughput Constraints
  - Talk at IEEE INFOCOM, 2018
  - Invited talk at CMU SQUALL Seminar, hosted by Prof. Mor Harchol-Balter, 2017

- 2018 Stochastic Network Utility Maximization
  - Lecture in the MIT course “Data Communication Networks”.
- 2017 Minimizing Age of Information in Broadcast Wireless Networks
  - Talk at MIT LIDS Student Conference [**Best Presentation Award**]
- 2017 Lyapunov Optimization applied to the Age of Information minimization problem
  - Invited Talk at MIT LIDS & Stats Tea Talks
- 2015 Optimal Scheduling of Real-Time Traffic in Wireless Networks with Delayed Feedback
  - Talk at IEEE Allerton

## Teaching Experience

- Fall 2023 **Instructor**, ELEC ENG 307: Communications Systems, Northwestern University
- Spring 2019 **Teaching Assistant (TA) for the Radio Lab**, Communication Systems & Networks, MIT
- Spring 2018 ◦ Created the Radio Lab from the ground up. Together with my Ph.D. advisor, we purchased 16 teaching SDRs and designed 5 customized experiments that closely follow the theoretical lectures;
- Spring 2017 ◦ Led the laboratory, developed laboratory scripts, and graded assignments;
  - Student evaluation of the TA was (on average) 6.9 out of 7.0;
  - Received the **MIT TA award of 2018** for creating and conducting the Radio Lab;
  - Received the **MIT SoE Teaching and Mentoring award of 2020**.
- Summer 2017 Completed the **Kaufman Teaching Certificate Program** offered by the Teaching and Learning Lab at MIT. Some of the topics were: Designing a Course and Constructing a Syllabus, Interactive Teaching & Active Learning, and Teaching Inclusively.
- Spring 2016 **Teaching Assistant**, Communication Systems & Networks, MIT
  - Held weekly office hours, offered exam review sessions, and assisted in the design of problem sets and exams. Student evaluation of the TA was 6.9 out of 7.0.
- 2011–2012 **Volunteer Math Teacher**, Brazilian local government
  - Prepared and delivered weekly classes for talented middle school students.

## Service

- 2019–Present Technical Program Committee (TPC) Member:
  - IEEE INFOCOM 2023 and 2024
  - WiOpt 2021, 2022, and 2023
  - IEEE INFOCOM Workshop on AoI 2021, 2022, and 2023
  - IEEE Globecom Workshop on experimental wireless platforms and testbeds 2021
  - IEEE Vehicular Technology Conference 2019 and 2020
- 2016–Present Reviewed 130+ papers and articles for 15+ journals, magazines, and conferences in the field, including:
  - IEEE/ACM Transactions on Networking
  - IEEE Transactions on Information Theory
  - IEEE Transactions on Mobile Computing
  - IEEE Transactions on Communications
  - IEEE Transactions on Wireless Communications
  - IEEE Internet of Things Journal
  - Journal of Communications and Networks
  - IEEE Journal on Selected Areas in Communications
  - IEEE Network Magazine
  - IEEE Wireless Communications Letters
  - IEEE Communications Letters
  - IEEE Networking Letters
  - IEEE ISIT
  - IFIP Performance
  - ACM SIGMETRICS

- 2022–Present Served in multiple M.S. and Ph.D. thesis committees:
- Co-advisor of M.S. thesis written by Aditya Jolly, Columbia University, 2023
  - Co-advisor of M.S. thesis written by Trevor J. Gordon, Columbia University, 2023
  - Reader of Ph.D. thesis written by Bai Liu, MIT LIDS, 2022
  - Reader of Ph.D. thesis written by Xinzhe Fu, MIT LIDS, 2022
  - Examiner of M.S. report written by Tomer Morgenstern, Tel Aviv University, 2022
- 2018–Present Served in multiple outreach events, including:
- Demonstration at the TSC’s STEAM Expo introducing wireless communications concepts to K-12 students, May 2023
  - Class visit to Columbia Secondary School in West Harlem, NYC, as part of the NSF COSMOS-NewLAW Research Experience and Mentoring for Teachers (REM/RET) program, Dec. 2022
  - Panelist in the Career Day at Columbia Secondary School, NYC, May 2022
  - Class visit to Beacon High School, NYC, as part of the NSF COSMOS-NewLAW Research Experience and Mentoring for Teachers (REM/RET) program, Dec. 2021
  - Panelist in the event PhD 101 hosted by MIT AeroAstro, July 2020
  - Panel Moderator for the Career Panel during the LIDS Student Conference, Feb. 2018
- 2014–2020 Served in multiple student committees, one or two per term, during the Ph.D. at MIT:
- Co-Chair of the MIT Westgate Executive Committee, 2019-2020
  - Co-Chair of the MIT LIDS Social Committee, twice, 2014-2015 & 2018-2019
  - Member of the MIT LIDS Mentoring Committee, twice, 2017-2019
  - Co-Chair of the MIT LIDS Student Conference, 2017-2018
  - Host of MIT Ashdown’s monthly roundtable discussions, twice, 2015-2017

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## Posters and Demos

- [PD9] A. Levin, **I. Kadota**, A. Jolly, S. Garikapati, B. Zhang, M. Kohli, M. Seok, H. Krishnaswamy, and G. Zussman, “Poster: Towards a Real-Time Adaptive Full-Duplex Wireless Radio,” presented at Data Science Day, Columbia University, New York, NY, Apr. 2023.
- [PD8] S. Cohen, A. Levin, **I. Kadota**, A. Adhikari, A. Jolly, and G. Zussman, “Poster: COSMOS: Enabling Next-Gen Wireless Research,” presented at Columbia-Amazon Summer Undergraduate Research Experience (SURE) Symposium, New York, NY, Aug. 2022.
- [PD7] **I. Kadota\***, A. Levin\*, B. Zhang\*, S. Garikapati, A. Jolly, M. Kohli, T. Chen, M. Seok, H. Krishnaswamy, and G. Zussman, “Demo: Adaptive Configuration of a Variable-Gain, Variable-Delay Self-Interference Canceller for a Full-Duplex System,” presented at DARPA MTO WARP End of Phase Review, Fort Worth, TX, June 2022.
- [PD6] A. Adhikari, M. Kohli, G. Avci, S. Brent, J. Moser, S. Hossain, A. Dash, S. Mukherjee, C. Garland, **I. Kadota**, R. Feick, D. Chizhik, J. Du, R. Valenzuela, and G. Zussman, “Poster: mmWave Measurements for Fixed and Mobile Wireless Access Algorithm Development,” presented at Data Science Day, Columbia University, New York, NY, Apr. 2022.
- [PD5] A. Levin, **I. Kadota**, S. Garikapati, H. Krishnaswamy, and G. Zussman, “Poster: Adaptive Configuration of a Variable-Gain, Variable-Delay Self-Interference Canceller for Full-Duplex Wireless,” presented at Data Science Day, Columbia University, New York, NY, Apr. 2022.
- [PD4] G. Avci, S. Brent, S. Hossain, J. Moser, A. Estigarribia, M. Kohli, **I. Kadota**, A. Adhikari, D. Chizhik, J. Du, R. Feick, R. Valenzuela, and G. Zussman, “Poster: Outdoor-to-Indoor 28 GHz mmWave Measurements in the COSMOS Testbed Deployment Area,” presented at IEEE MIT Undergraduate Research Technology Conference (URTC), Cambridge, MA, Oct. 2021.
- [PD3] A. Nagulu\*, S. Garikapati\*, M. Essawy, **I. Kadota**, T. Chen, A. Natarajan, G. Zussman, and H. Krishnaswamy, “Demo: Full-Duplex Radio Demonstration with CMOS Circulator and Switched-Capacitor Based Cancelers,” presented at IEEE ISSCC, San Francisco, CA, Feb. 2021.

- [PD2] M. Kohli, A. Estigarribia, T. Dai, **I. Kadota**, T. Chen, D. Chizhik, J. Du, R. Feick, R. Valenzuela, and G. Zussman, "Poster: 28 GHz Channel Measurements in the COSMOS Testbed Deployment Area," presented at the Smart Cities Poster Session, Data Science Institute at Columbia University, New York, NY, Nov. 2020.
- [PD1] **I. Kadota**, M. S. Rahman, and E. Modiano, "Poster: Age of Information in Wireless Networks: from Theory to Implementation," presented at ACM MobiCom conference, London, United Kingdom, Sept. 2020. [Extended abstract published in Proc. of ACM MobiCom'20]