James Siderius

CONTACT INFORMATION	Laboratory for Information and Decision Systems Massachusetts Institute of Technology 32 Vassar St - 32 D640 Cambridge, MA 02139	*Voice:* (503) 757-7954 *e-mail:* siderius@mit.edu *web:* https://siderius.lids.mit.edu

EDUCATION

Massachusetts Institute of Technology, Cambridge, MA
Laboratory for Information and Decision Systems
Ph.D., Electrical Engineering and Computer Science (2022)
  - <u>Dissertation</u>: Understanding Social Media: Misinformation, Attention, and Digital Advertising
  - <u>Advisors</u>: Daron Acemoglu (Economics) and Asuman Ozdaglar (EECS)
S.M., Electrical Engineering and Computer Science (2018)
GPA: 5.00/5.00; Minor: Econometrics and Data Science

Princeton University, Princeton, NJ
A.B., Mathematics (2016)
Summa Cum Laude and Phi Beta Kappa
Overall GPA: 3.95/4.00; Departmental GPA: 4.00/4.00
Minor certificates in Finance, Applications of Computing

EMPLOYMENT

Massachusetts Institute of Technology, Cambridge, MA
Department of Electrical Engineering and Computer Science
Postdoctoral Associate (September 2022 - May 2023)

Jade Necklace LLC, Berkeley, CA
Analytics Startup
Consultant (May 2022 - current)

Microsoft Research New England, Cambridge, MA
Economics & Computation Group
Research Intern (May 2022 - August 2022)

Board of Governors of the Federal Reserve System, Washington, DC
Systemic Financial Institutions and Markets
Dissertation Fellow (June 2019 - September 2019)

Citadel LLC, Chicago, IL
Global Quantitative Strategies
Quantitative Analyst (June 2016 - August 2017)

Morgan Stanley, New York, NY
Equity & Sales
Quantitative Trading Intern (June 2015 - August 2015)

Weiss Asset Management, Boston, MA
Global Investments Fund
Trading Intern (June 2014 - August 2014)

PAPERS

Click on title to obtain latest version.

[1] A Model of Online Misinformation (with D. Acemoglu and A. Ozdaglar). NBER Working Paper No. 28884 (2022). Submitted for publication.

[2] When is Society Susceptible to Manipulation? (with M. Mostagir and A. Ozdaglar). Management Science (2022).

[3] Social Inequality and the Spread of Misinformation (with M. Mostagir). Management Science (2022). Diversity, Equity, and Inclusion (DEI) Paper Award (2021) from Ross School of Business.

[4] Learning in a Post-Truth World (with M. Mostagir). Management Science 68(4), 2860-2868 (2022) [Fast track].

[5] Strategic Reviews (with M. Mostagir). Management Science (2022).

[6] Systemic Credit Freezes in Financial Lending Networks (with D. Acemoglu, A. Ozdaglar, and A. Tahbaz-Salehi). Mathematics and Financial Economics 15(1), 185-232 (2021).

[7] When do Misinformation Policies (not) Work? (with M. Mostagir). Working paper (2022).

[8] Targeting Centrality: A Unifying Framework for Influence in Networks (with M. Mostagir). Working paper (2022).

ONGOING WORK	Please email to request a copy of the most recent version.

[9] The Welfare Implications of Online Media Business Models (with D. Acemoglu, D. Huttenlocher, and A. Ozdaglar).

[10] Competing for Limited Attention on Social Media (with D. Acemoglu and A. Ozdaglar).

[11] When Should Platforms Break Echo Chambers? (with M. Mostagir).

[12] An Experiment on Algorithmic Ranking: User Behavior, Platform Incentives, and Policy (with D. Huttenlocher, C. Lyu, and A. Ozdaglar).

[13] Fighting Fire with Fire: An Experiment on Misinformation Sharing Incentives (with D. Acemoglu, A. Berinsky, C. Lyu, A. Madry, A. Ozdaglar, and D. Rand).

[14] Misinformation Online to Offline: A Twitter Field Study (with D. Acemoglu, A. Berinsky, C. Lyu, and A. Ozdaglar).

[15] Engagement-Maximizing Social Media Algorithms: How Platforms Shape What You Think (with S. Cen and A. Ozdaglar).

TEACHING EXPERIENCE	**Massachusetts Institute of Technology**, Cambridge, MA

6.255/15.903 Optimization Methods (Fall 2019)
Teaching Assistant to *Pablo Parrilo*; over 175 students.
Evaluation: 6.0/6.4/6.3 // 7.0 (Interest / Knowledgeable / Helped learning // Total Possible)

6.883 Data-Driven Decision Making and Society (Spring 2021)
Lecturing Assistant. Assisted Professor Asuman Ozdaglar in designing lecture topics revolving around models and empirical studies of social media and misinformation.

Princeton University, Princeton, NJ

COS 126/217/226 Core Undergraduate Computer Science Curriculum (Fall 2013 - Spring 2016)
Laboratory Teaching Assistant

AWARDS AND POSITIONS	President of the MIT IDSS (Institute for Data, Systems, and Society) Student Council (2020-2022)
	Member of the MIT Graduate Student Council (GSC) (2020-2022)
	Recipient of MIT Jacobs Presidential Fellowship (2016-2017)
	Princeton Federal Reserve Challenge Team (2013-2016)
	Recipient of Princeton's Shapiro Prize for Academic Excellence (2014-2015)
	Recipient of Siemens Award/Scholarship for STEM Advanced Placement (2011-2012)
REVIEWER	Management Science; Operations Research; Journal of Economic Theory; Journal of Economic Dynamics and Control; ACM Conference on Economics and Computation; IEEE Transactions on Control of Network Games; Proceedings of Machine Learning Research; International Conference on Algorithmic Learning Theory; Journal of Naval Research Logistics.

SELECTED TALKS

November 2022: INFORMS Annual Meeting, Indianapolis, IN. When Should Platforms Break Echo Chambers? (with M. Mostagir).

July 2022: Society for the Advancement of Economic Theory (SAET) Annual Conference, Canberra, Australia. A Model of Online Misinformation (with D. Acemoglu and A. Ozdaglar).

May 2022: Marketplace Innovation Workshop. When Should Platforms Break Echo Chambers? (with M. Mostagir).

May 2022: Janeway Institute Networks Seminar: University of Cambridge Economics. A Model of Online Misinformation (with D. Acemoglu and A. Ozdaglar).

March 2022: Network Science and Economics Conference, Chicago, IL. A Model of Online Misinformation (with D. Acemoglu and A. Ozdaglar); When do Misinformation Policies (not) Work? (with M. Mostagir).

October 2021: INFORMS Annual Meeting, Anaheim, CA. A Model of Online Misinformation (with D. Acemoglu and A. Ozdaglar).

July 2021: MIT Human Cooperation Lab. Learning in a Post-Truth World (with M. Mostagir).

March 2021: Network Science and Economics Conference. Social Inequality and the Spread of Misinformation (with M. Mostagir).

October 2019: INFORMS Annual Meeting, Seattle, WA. Systemic Credit Freezes in Financial Lending Networks (with D. Acemoglu, A. Ozdaglar, and A. Tahbaz-Salehi); Strategic Reviews (with M. Mostagir); Collaborative Contests (with M. Mostagir).

October 2019: CIRANO-Sam M. Walton College of Business Workshop on Networks in Trade and Finance, Montreal, QC. Systemic Credit Freezes in Financial Lending Networks (with D. Acemoglu, A. Ozdaglar, and A. Tahbaz-Salehi).

June 2019: Board of Governors of the Federal Reserve System, Washington, DC. Systemic Credit Freezes in Financial Lending Networks (with D. Acemoglu, A. Ozdaglar, and A. Tahbaz-Salehi).

May 2019: Marketplace Innovation Workshop, Stanford, CA. Systemic Credit Freezes in Financial Lending Networks (with D. Acemoglu, A. Ozdaglar, and A. Tahbaz-Salehi).