

AMIR TOHIDI KALORAZI

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EDUCATION

University of Pennsylvania , Philadelphia, PA Computational Social Science Lab Postdoctoral Researcher Advisor: <i>Professor Duncan Watts</i>	2023-Present
Massachusetts Institute of Technology , Cambridge, MA Institute for Data, Systems, and Society (IDSS) Ph.D. jointly in Social & Engineering Systems (SES), and Statistics (IDPS) Advisors: <i>Professor Ali Jadbabaie, Professor Dean Eckles</i> Thesis Committee members: <i>Adam Berinsky, Drazen Prelec</i>	2017-2023 GPA: 5.0/5.0
Sharif University of Technology , Tehran, Iran B.Sc. in Electrical Engineering B.Sc. in Physics Thesis Advisor: <i>Professor Emad Fatemizadeh</i>	2012-2017 GPA: 18.90/20

RESEARCH INTERESTS

- Computational Social Science
- Survey & Experimental Design
- Information Systems and Media Analysis
- Causal Inference & Machine Learning

PUBLICATIONS

- Babak Fotouhi, **Amir Tohidi**, Rouzbeh Touserani, Brad Bushman
Violence in Movies: Trends of Violence in Movies During the Past Half Century, **JAMA Pediatrics**
- **Amir Tohidi**, Stefano Baliatti, Sam Fraiberger, Anca Baliatti
Divergence between predicted and actual perception of climate information, *PNAS Nexus*
- Jenny Wang, Samar Haider, **Amir Tohidi**, Anushkaa Gupta, Yuxuan Zhang, Chris Callison-Burch, David Rothschild, and Duncan Watts
Designing and Implementing a Tool for Real-Time Selection and Framing Bias Analysis in News Coverage, Forthcoming in **ACM Conference on Human Factors in Computing Systems**
- **Amir Tohidi**, Dean Eckles, Ali Jadbabaie
Habits in consumer purchases: Evidence from store closures, Under review in **Journal of Consumer Research**
- **Amir Tohidi**, Manon Revel, Dean Eckles, Adam Berinsky, Ali Jadbabaie
Native ads and the credibility of online publishers, Revise and Resubmit from **Journal of Interactive Marketing**

CONFERENCES AND SEMINARS

- **Investigating the impact of Bias News on readers opinions**
 - Conference on Digital Experimentation at MIT, Boston, Oct 2024
 - International Conference on Computational Social Science, Philadelphia, July 2024
- **Native ads and the credibility of online publishers**
 - Conference of the Society for Political Methodology, June 2019
 - International Conference on Computational Social Science, July 2020
 - Marketing Seminar, MIT, Sep 2020
- **Habits in consumer purchases: Evidence from store closures**
 - Marketing Colloquia, Wharton School, Nov 2022
 - INFORMS Annual Meeting, Indiana, Oct 2022
 - Behavioral Research Lab Seminar, MIT, April 2021
 - Social Analytics Lab, MIT, April 2021
 - Marketing Seminar, MIT, Feb 2022
- **An experimental study to increase consensus on polarizing topics.**
 - International Conference on Computational Social Science, July 2021
 - Behavioral Research Lab Seminar, MIT, Feb 2022
 - Social Analytics Lab, MIT, Feb 2022
- **Using entropy estimator to measure social media habits.**
 - INFORMS Annual Meeting, Phoenix, Oct 2023

WORKING PAPERS

- **Investigating the Impact of Media Bias on News Readers**
Collaborators: *Samar Haider, Dr. Duncan Watts*
 - We utilize Large Language Models (LLMs) to generate variations of news articles, paying careful attention to the degree of positive or negative bias concerning a subject. Following this, we conducted a randomized survey experiment to assess the influence of these biased articles on the perceptions of daily news readers.
- **Impact of customer diversity on restaurants' foot-traffic recovery after Covid-19.**
Collaborator: *Dr. Mohsen Bahrami, Dr. Alex Pentland*
 - We track customers' mobility patterns using Safe Graph data before and after Covid, and evaluate how various measures of customer diversity such as entropy of locations and income diversity affect the foot-traffic recovery of restaurants. We also use Yelp data to control for numerous restaurant features, including anti-Covid measures.

TEACHING & ADVISING

- **MIT Sloan School of Management**
 - Teaching Assistant for *Marketing Analytics, Evaluations*: 5.9/7, Spring 2022
- **MIT COVID-19 Datathon challenge**
 - Mentoring teams in the misinformation track, Summer 2020
- **Sharif University of Technology**
 - Teaching Assistant for *Engineering Probability and Statistics*, Fall 2015.
 - Teaching Assistant for *Engineering Mathematics*, Fall 2015.
- **Physics Olympiad Instructor, 2012 - 2015**

Preparing high school students for participation in the National Physics Olympiad. Taught intermediate Single/Multivariate Calculus, Differential Equations, Classical Mechanics, Electrodynamics, and Statistical Physics.

HONORS AND AWARDS

- **Gold Medal**, 25th Iranian National Physics Olympiad, Iran, 2011.
- **Ranked 1st in Cumulative GPA** among all entrants of 2012, Physics Department, Sharif University of Technology.
- **Ranked 2nd in Cumulative GPA** among all entrants of 2012, Electrical Engineering Department, Sharif University of Technology.

PEER REVIEW ACTIVITIES

- **Journals**: Management Science, Scientific Reports, PLOS One
- **Conferences**: International Conference on Network Science, International Conference on Computational Social Science, International World Wide Web Conference, IEEE Control Society, American Control Conference

WORK EXPERIENCE

- **Summer Internship at the World Bank**, Jun 2021 - Aug 2021
Development Data Science Team
- **Young Scholars Club experimental Physics committee**, 2014 - 2015
The committee qualifies students' experimental skills for participation in the International Physics Olympiad (IPhO) Team.

SELECTED COURSES

- **Quantitative: Statistics, Optimization, Networks**
Mathematical Statistics, Statistical Methods in Economics, Econometrics, Stochastic Processes, Causal Inference and Machine Learning, Network Science, Mathematical Programming
- **Social Science: Economics, Psychology**
Experiment Design and Analysis, Microeconomic Theory, Game Theory, Psychology and Economic Theory, Field Experiments in Psychology and Economics

LEADERSHIP ROLES AND ACTIVITIES

- **Committee Member** of the International Conference on Network Science 2024
- **Organizer** of the 25th LIDS Student Conference.
- **Publicity Chair in Ashdown House Graduate Community**, 2018-2019.
- **Social Chair** of Persian Students Association at MIT, 2017-2018.
- **Advisory Board Member** of Persian Students Association at MIT, 2018-2019.

SKILLS AND INTERESTS

- Programming: R, Python, Stan, MATLAB, Mathematica, L^AT_EX
- Languages: Farsi (native), English (fluent)
- Personal: Soccer, Tennis, Hiking, Philosophy and Theology

REFERENCES

- **Duncan Watts**
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Wharton School of Business
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- **Sam Fraiberger**
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