

Kimon Drakopoulos

- CONTACT INFORMATION** Data Sciences and Operations Department,
Marshall School of Business, *E-mail:* drakopou@marshall.usc.edu
University of Southern California, *Homepage:* www.kimondrakopoulos.com
3670 Trousdale Pkwy, #BRI 303F *Google Scholar:* tinyurl.com/kimondr
Los Angeles, CA 90089
- EDUCATION** **Massachusetts Institute of Technology**, Cambridge, MA *2011 - 2016*
PhD, Department of Electrical Engineering and Computer Science
Thesis: Analysis and Control of Contagion Processes on Networks
Advisors: Asuman Ozdaglar, John Tsitsiklis
- Massachusetts Institute of Technology**, Cambridge, MA *2009 - 2011*
M.S., Department of Electrical Engineering and Computer Science
Thesis: Observational Learning with Finite Memory
Advisors: Asuman Ozdaglar, John Tsitsiklis
- National Technical University of Athens**, Athens, Greece *2004-2009*
Diploma, School of Electrical and Computer Engineering
Thesis: Morphology, Active Contours on Graphs and Implementations with Graphcuts
Advisors: Petros Maragos
- PROFESSIONAL EXPERIENCE** **Robert R. Dockson Assistant Professor** August 2021 - present
Marshall School of Business, University of Southern California
- Assistant Professor of Data Sciences and Operations** June 2016 - present
Marshall School of Business, University of Southern California
- Chief Data Scientist** July 2020 - November 2020
Served as the Chief Data Scientist of the Greek COVID-19 Taskforce and lead the design of testing operations.
- Advisor to the Greek Prime Minister** May 2020 - January 2021
Served as Data Science and Operations Advisor to the Greek Prime Minister
- Data Science Intern** *Spring-Summer 2012*
LinkedIn Data Science, Mountainview, CA
- RESEARCH INTERESTS** Epidemics Analytics, Network Science, Information Design, Revenue Management, Social Networks, Game Theory, Social Learning, Applied Probability, Network Economics.
- PAPERS** **Journal Publications**
All authors are alphabetical
1. H. Bastani, K. Drakopoulos, J. Vlachogiannis, C. Hadjicristodoulou, P. Lagiou, G. Magiorkinis, D. Paraskevis, S. Tsiodras “Interpretable Operations Research for High Stakes Decision-Making: Designing the Greek COVID-19 Testing System”
 - Accepted, **Inform Journal on Applied Analytics** (2022)
 - Winner of the **Wagner Prize** for Excellence in the Practice of Advanced Analytics and Operations Research.
 2. K. Drakopoulos, A. Makhdoumi, “Providing Data Samples for Free”,
 - Accepted, **Management Science** (2022)

3. H. Bastani, K. Drakopoulos, V. Gupta, J. Vlachogiannis, C. Hadjicristodoulou, P. Lagiou, G. Magiorkinis, D. Paraskevis, S. Tsiodras, “Efficient and targeted COVID-19 border testing via reinforcement learning” (first three authors contributed equally to the work),
 - Published, **Nature** (2021)
 - Winner of **Pierskalla** Best paper award.
 - Second place **PSOR** Best paper award.
4. K. Drakopoulos, R. Randhawa “Why Perfect Tests May Not be Worth Waiting For: Information as a Commodity”,
 - Published, **Management Science FastTrack** (2021)
5. G. Allon, K. Drakopoulos, V. Manshadi, “Information Inundation in Platforms and Implications”,
 - Published, **Operations Research** (2021)
6. K. Drakopoulos, S. Jain, R. Randhawa, “Persuading Customers to Buy Early: The Value of Personalized Information Provisioning”,
 - Published, **Management Science** (2021)
7. O. Candogan, K. Drakopoulos, “Optimal Signaling of Content Accuracy: Engagement vs. Misinformation”
 - Published, **Operations Research** (2020)
8. K. Drakopoulos, A. Ozdaglar, J.N. Tsitsiklis, “When is a network epidemic hard to eliminate?”,
 - Published, **Mathematics of Operations Research**. (2017)
9. C. Sakaridis, K. Drakopoulos, P. Maragos, “Theoretical Analysis of Active Contours on Graphs”,
 - Published, **SIAM Journal on Imaging Sciences** (2016)
10. K. Drakopoulos, A. Ozdaglar, J.N. Tsitsiklis, “An efficient curing policy for epidemics on graphs”,
 - Published, **IEEE Transactions on Network Science and Engineering** (2014).
11. K. Drakopoulos, A. Ozdaglar, J.N. Tsitsiklis, “On Learning With Finite Memory”,
 - Published, **IEEE Transactions on Information Theory** (2013).
12. K. Drakopoulos, P. Maragos, “Active Contours on Graphs: Multiscale Morphology and Graphcuts”,
 - Published, **IEEE Journal of Selected Topics in Signal Processing** (2012).

Conference Proceedings

13. G. Allon, K. Drakopoulos, V. Manshadi, “Information Inundation in Platforms and Implications”, EC '19: Proceedings of the 2019 ACM Conference on Economics and Computation (2019)
14. K. Drakopoulos, A. Ozdaglar, J.N. Tsitsiklis, “A Lower Bound on the Performance of Dynamic Curing Policies for Epidemics on Graphs”, Proceedings of 54th IEEE Conference on Decision and Control (2015)
15. K. Drakopoulos, A. Ozdaglar, J.N. Tsitsiklis, “An Efficient Curing Policy for Epidemics on Graphs”, Proceedings of 53rd IEEE Conference on Decision and Control (2014)

16. K. Drakopoulos, A. Ozdaglar, J.N. Tsitsiklis, “Conditions for Learning in Generalized Tandem Networks”, Proceedings of 51st Annual Conference on Decision and Control (CDC) (2013)

Work in Progress

17. K. Drakopoulos, F. Zheng, “Network Effects in Contagion Processes: Identification and Control”, Major Revision, **Manufacturing & Service Operations Management**
18. S. Sapounas, S. P. Gilmour, K. Drakopoulos, G. Magiorkinis, N. Trichakis, and P. Jaillet “The Effect of Mass Self Testing on the Mitigation of COVID-19 in Greece”
19. K. Drakopoulos and R. Randhawa. “Incentivizing Experimentation through Network Design”
20. K. Drakopoulos, I. Lo, and J. Mulvaney, “Information Intermediaries on the Blockchain”

SELECTED MEDIA COVERAGE

- “Greece used AI to curb COVID: what other nations can learn”, [Nature Editorial](#)
- “The Logic Around Contact Tracing Apps Is All Wrong”, [Wired](#)
- “We Helped Greece Build an AI System to Make Covid-19 Testing More Efficient. Here’s What We Learned.”, [Entrepreneur](#)
- “A computer algorithm called ‘Eva’ may have saved lives in Greece”, [Science Daily](#)

INVITED TALKS

1. Operations, **Kellogg School of Management**, Northwestern University, May 2022
2. Operations and Management Science, **Tuck School of Business**, Dartmouth College, December 2021
3. IORA Seminar Series, **National University of Singapore**, October 2021
4. Integrated Political Crisis Response Mechanism (IPCR) Roundtable, **European Council**, October 2021
5. Decisions Risk and Operations/Industrial Engineering and Operations Research Seminar, **Columbia Business School**, March 2021
6. Operations Management, Sloan School of Management, **Massachusetts Institute of Technology**, March 2021
7. Laboratory for Information and Decision Systems, **Massachusetts Institute of Technology**, January 2021
8. 9th Webinar for NFPs for Preparedness, Response and Threat Detection, **European Center for Disease Control**, December 2020
9. Operations, Information and Decisions, **Wharton School of the University of Pennsylvania**, December 2020
10. Operations, Information & Technology, Graduate School of Business, **Stanford University**, December 2020
11. Information, Risk, & Operations Management, McCombs School of Business, **University of Texas at Austin**, September 2020
12. Operations Management, **Yale School of Management**, May 2020
13. Decision Sciences, **Fuqua School of Business**, January 2019
14. Operations Management, **The University of Chicago Booth School of Business**, 2018

15. **Yale Institute for Network Science**, February, 2016
16. Decision, Risk, and Operations Division, **Columbia Business School**, January 2016
17. Department of Industrial Systems and Engineering, **Viterbi School of Engineering**, University of Southern California, 2016
18. Technology and Operations, **University of Michigan's Ross School of Business**, January 2016
19. Operations, **Yale School of Management**, January 2016
20. Operations Management, **Kellogg School of Management**, Northwestern University, December 2016
21. H. Milton Stewart School of Industrial Systems Engineering, **GeorgiaTech**, December 2016

CONFERENCE TALKS	Presented and/or organized sessions in	
	- INFORMS Annual Meeting	2015-present
	- Production and Operations Management Society	2019-2021
	- Manufacturing and Service Operations Management Conference	2016-2020
	- IEEE Conference on Decision and Control	2012-2015

AWARDS &
HONORS

1. Appointed as **Visiting Scholar** in the **Simons Institute** for the Theory of Computing at UC Berkeley in the fall semester of 2022. I was invited to join top scholars in the area of "Graph Limits and Processes on Networks: From Epidemics to Misinformation".
2. Winner of the 2021 **Daniel H. Wagner Prize**. The Wagner prize is an INFORMS-wide award for recognizing excellence in the practice of advanced analytics and operations research.
3. Winner of the 2021 **Pierskalla** best paper award. Awarded by the Health Applications Society of INFORMS recognizing research excellence in the field of health care management science.
4. Second place 2021 INFORMS **Public Sector Operations Research** Best Paper Award. The Public Sector Operations Research Society of INFORMS selects 4 papers judged to be the best quality across all disciplines and application areas represented within public sector operations research.
5. Appointed as the **Robert R. Dockson Assistant Professor** in Business Administration (2021). Named chairs and professorships are among the highest honors the University confers upon its faculty.
6. Winner of the **Dr. Jagdish Sheth Award** for Impact of Research on Practice (2021). Given yearly by the Marshall School of Business to recognize research excellence and impact.
7. **Nominated for the Academy of Athens Award** in Greece, for my contribution in the strategy against COVID-19 (2020). The Academy of Athens is Greece's national academy, and the highest research establishment in the country.
8. Winner of the 2019 **Data Sciences and Operations Teaching Award**. Awarded yearly to two faculty from the Data Sciences and Operations department for teaching excellence in undergraduate and graduate teaching.

9. Winner of the 2015 **Best Professor of Summer** award. Awarded each term by the Leaders for Global Operations at the Sloan School of Management recognizing teaching excellence among instructors.
10. Winner of the 2014-2015 **MIT Sloan Outstanding TA award**. Awarded yearly by the Sloan School of Management recognizing teaching excellence among teaching assistants.
11. One of the winners of the 2015 **LinkedIn Economic Graph Challenge**. Awarded by LinkedIn to research teams with the most innovative and rigorous ideas in using the company's data for good.
12. Second place 2015 **Ernst Guillemin Award** for Best Electrical Engineering SM thesis. Awarded yearly by the MIT department of Electrical Engineering and Computer Science to recognize the best Master's thesis across the department.
13. Recipient of the **Jacob's Presidential Fellowship** at MIT EECS. Awarded by the MIT department of Electrical Engineering and Computer Science to support less than 2% of the graduate students for two years.
14. Winner of the 2009 **EECS Silver Medal**. Awarded for ranking second among all undergraduate students of the Electrical and Computer Engineering department of National Technical University of Athens.
15. Winner of the 2004-2009 **State Scholarship Foundation awards** for excellence during all my undergraduate academic years.
16. Winner of the 2014 **President of the Hellenic Republic award** for ranking first among all high-school graduates based on country-wide standardized exams.

STUDENT
MENTORSHIP

Doctoral Students

- *Shobhit Jain*, USC Marshall School of Business 2016-2021
- *Justin Mulvaney*, USC Marshall School of Business 2021-present
- (Co-author) *Sam Paul Gilmour*, MIT Sloan School of Management 2022-present

Dissertation Committee Member

- *Krishna Somandepalli*, USC Viterbi School of Engineering, 2021
- *Ida Johnsson*, USC Department of Economics, 2018
- *Erhun Ozkan*, USC Marshall School of Business, 2018

Thesis Proposal/Qualification Committee Member

- *Katerina Giannoutsou*, USC Marshall School of Business, 2022
- *Kharisma Sharma*, Viterbi School of Engineering, 2020

ACADEMIC
SERVICE

Editorial

2022-present

- Associate Editor for *Management Science*, Stochastic Models and Simulation Department
- Associate Editor for *Operations Research*, Stochastic Models Area

- Guest Editor for Special Section of *SIAM Journal on Control and Optimization* on Mathematical Modeling, Analysis, and Control of Epidemics

Reviewer 2015-present
Econometrica, Operations Research, Management Science, American Economic Journal, Transactions on Network Science and Engineering, Transactions on Automatic Control, Transactions on Information Theory, Transactions on Control of Networked Systems, American Control Conference, International Conference on Decision and Control

Program committee
Sigmetrics 2018, EC 2018, EC 2019

Organizer 2019
Networks, Platform and Matching Workshop
 Held yearly and can be attended exclusively by pre-tenure faculty. Designed to provide feedback on work in progress, as well as facilitate collaboration between researchers with common research interests.

UNIVERSITY SERVICE *Operations Management Group Tenure-Track Hiring Committee Chair* 2021-2022
 Led hiring committee, pre-interviewed candidates, and coordinated logistics with faculty and candidates for fly-outs and on-campus interviews.

Operations Management Group Tenure-Track Hiring Committee Co-Chair 2020-2021
 Led hiring committee, pre-interviewed candidates, and coordinated logistics with faculty and candidates for fly-outs and on-campus interviews.

BUAD 311 Core Course Coordinator 2018,2019
 Liaised with Undergraduate Vice-Deans Office and other core course coordinators to ensure Marshall meets IACSB accreditation standards and develop interdisciplinary approaches to achieving Marshalls Learning Objectives.

Operations Management Group PhD Committee Member 2016-present
 Helped design curriculum requirements for PhD program. Wrote parts of the the stochastics screening exam each year. Served on PhD admissions committee, including reviewing applications and interviewing candidates.

Data Sciences and Operations Seminar Series Co-Coordinator 2016-2019
 Invited visiting faculty to present research in departmental seminar. Coordinated all logistical aspects of visits and curated yearly speaker series.

So-Cal OR/OM Day Co-Organizer 2017
 Co-organized a one-day, single-track conference with approximately 40 attendees from USC, UCLA Anderson, UC Riverside, and UC Irvine showcasing junior faculty and PhD research in operations research and operations management.

TEACHING **USC Marshall School of Business** Los Angeles, CA

Instructor *Spring 2017,2018,2020,2022 Fall 2019, 2020*
 Class: BUAD 311 Operations Management *Average rating: 4.74/5*
 Fundamentals of operations management. Skills needed to analyze, manage, and improve business processes. Topics include: process, capacity, service, and inventory management and optimization.

Sloan School of Management

Cambridge, MA

Instructor

June 2015 - August 2015.

Class: 15.066 System Optimization and Analysis for Manufacturing

Introduction to modeling, optimization and simulation, as it applies to the study and analysis of manufacturing systems for decision support.

COURSE **USC Marshall School of Business**
DEVELOPMENT

Los Angeles, CA

DSO 429: Digital Transformation of Business: AI and Smart Contracts

(Next Offering: Fall 2024) Covers basic concepts of experiment design, predictive analytics, dynamic programming, reinforcement learning and smart contracts through black-box applications on real case-studies and datasets.

DSO 488: Hands-on AI for Business

(Next Offering: Spring 2024) Project based class on the design and implementation of a full analytics pipeline for industry collaborators.

COMPUTING Python, R, Matlab, Javascript, Tableau