

# Kimon Drakopoulos

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CONTACT INFORMATION	Data Sciences and Operations Department, Marshall School of Business, University of Southern California, 3670 Trousdale Pkwy, #BRI 303F Los Angeles, CA 90089	Voice: 213-821-9882 E-mail: drakopou@marshall.usc.edu Homepage: www.kimondrakopoulos.com
EDUCATION	<b>Massachusetts Institute of Technology</b> , Cambridge, MA PhD, Department of Electrical Engineering and Computer Science <i>Thesis: Analysis and Control of Contagion Processes on Networks</i> <i>Advisors: Asuman Ozdaglar, John Tsitsiklis</i>	2011 - 2016
	<b>Massachusetts Institute of Technology</b> , Cambridge, MA M.S., Department of Electrical Engineering and Computer Science <i>Thesis: Observational Learning with Finite Memory</i> <i>Advisors: Asuman Ozdaglar, John Tsitsiklis</i>	2009 - 2011 GPA: 5.00/5.00
	<b>National Technical University of Athens</b> , Athens, Greece Diploma, School of Electrical and Computer Engineering <i>Thesis: Morphology, Active Contours on Graphs and Implementations with Graphcuts</i> <i>Advisors: Petros Maragos</i>	2004-2009 GPA: 9.82/10.00
	<b>Ziridis' High School</b> , Spata, Greece High School Diploma, Ranked 1st throughout Greece	June 2004 GPA: 19.9/20.0
PROFESSIONAL EXPERIENCE	<b>Assistant Professor of Data Sciences and Operations</b> Marshall School of Business, University of Southern California	June 2016 - present
	<b>LinkedIn Data Science</b> , Mountainview, CA Mentor: Simla Ceyhan.	Spring-Summer 2012
RESEARCH INTERESTS	Network science, social networks, game theory and its applications, social learning, applied probability, network economics.	
AWARDS & HONORS	<ul style="list-style-type: none"><li>• Best Professor of Summer 2015 (Leaders for Global Operations) 2015</li><li>• Sloan Outstanding TA award. 2014-2015</li><li>• One of the winners of the LinkedIn Economic Graph Challenge June 2015</li><li>• Awarded the second place Ernst Guillemin Award for Best Electrical Engineering SM thesis. June 2011</li><li>• Jacob's Presidential Fellow 2009-2011</li><li>• Silver Medal for being ranked second among all undergraduate students of the Electrical and Computer Engineering department of National Technical University of Athens. July 2009</li><li>• Received honorary award by the States Scholarship Foundation for excellence during all undergraduate academic years. 2004-2009</li><li>• Received the award "Nikolaos Criticos" for excellence in undergraduate Mathematics. 2005</li><li>• Received the award "Christos Papakyriakopoulos" for excellence in Mathematics during the first two undergraduate years. 2005</li><li>• Received the award "Nikolaos Tziafetas" for excellence in "Probabilities-Statistics" class. 2005</li><li>• Honorary award by the States Scholarship Foundation for achieving first rank in higher education final exams among Greek high school graduates 2005</li><li>• Awarded by the President of the Hellenic Republic as the best high school graduate in Greece June 2004</li></ul>	

## Accepted and Published:

1. C. Sakaridis, K. Drakopoulos, P. Maragos, "Theoretical Analysis of Active Contours on Graphs", accepted for publication, SIAM Journal on Imaging Sciences (SIIMS)
2. K. Drakopoulos, A. Ozdaglar, J.N. Tsitsiklis, "When is a network epidemic hard to eliminate?", Mathematics of Operations Research.
3. K. Drakopoulos, A. Ozdaglar, J.N. Tsitsiklis, "A Lower Bound on the Performance of Dynamic Curing Policies for Epidemics on Graphs", 54th IEEE Conference on Decision and Control.
4. K. Drakopoulos, A. Ozdaglar, J.N. Tsitsiklis, "An efficient curing policy for epidemics on graphs", IEEE Transactions on Network Science and Engineering.
5. K. Drakopoulos, A. Ozdaglar, J.N. Tsitsiklis, "An Efficient Curing Policy for Epidemics on Graphs", 53rd IEEE Conference on Decision and Control.
6. L. Kim, M. Abramson, K. Drakopoulos, S. Koltz, A. Ozdaglar, "Estimating Social Network Structure and Propagation Dynamics for an Infectious Disease", Proceedings of Social Computing, Behavioral-Cultural Modeling and Prediction: 7th International Conference, SBP 2014, Washington, DC, USA
7. K. Drakopoulos, A. Ozdaglar, J.N. Tsitsiklis, "On Learning With Finite Memory", IEEE Transactions on Information Theory, 2013.
8. K. Drakopoulos, A. Ozdaglar, J.N. Tsitsiklis, "Conditions for Learning in Generalized Tandem Networks", 2012 IEEE 51st Annual Conference on Decision and Control (CDC), 2013.
9. K. Drakopoulos, P. Maragos, "Active Contours on Graphs: Multiscale Morphology and Graphcuts", IEEE Journal of Selected Topics in Signal Processing, 2012.
10. K. Drakopoulos, P. Maragos, "Segmentation and Skeletonization on Arbitrary Graphs Using Multiscale Morphology and Active Contours", Innovations for Shape Analysis, Springer Berlin Heidelberg, 2013.

## In the publication process:

1. O. Candogan, K. Drakopoulos, "Optimal Signaling of Content Accuracy: Engagement vs. Misinformation"
2. K. Drakopoulos, F. Zheng, "Network Effects in Contagion Processes: Identification and Control"
3. K. Drakopoulos, S. Jain, R. Randhawa, "Persuading Customers to Buy Early"

## Working:

1. R. Randhawa, K. Drakopoulos, "Strategic Experimentation on Networks"
2. D. Acemoglu, K. Drakopoulos, A. Ozdaglar, "Information Obfuscation in a game of strategic experimentation"
3. K. Drakopoulos, A. Makhdoumi, "Dynamic Revelation and Pricing of Information"

## INVITED TALKS

1. Decision Sciences, Fuqua School of Business, 2018
2. Operations Management, The University of Chicago Booth School of Business, 2018
3. "SoCal Network Economics and Game Theory Symposium", University of California Los Angeles, November, 2016

4. Decision, Risk, and Operations Division, Columbia Business School, January 2016
5. Department of Industrial Systems and Engineering, Viterbi School of Engineering, University of Southern California, 2016
6. Technology and Operations, University of Michigan's Ross School of Business, January 2016
7. Operations, Yale School of Management, and Yale Institute for Network Science, January 2016
8. Operations Management, Kellogg School of Management, Northwestern University, December 2016
9. H. Milton Stewart School of Industrial Systems Engineering, GeorgiaTech, December 2016
10. Invited Speaker, Informs Annual Meeting, 2016

SERVICE

**Reviewer:**

Econometrica, Operations Research, Management Science, 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:**

Sigmatrics 2018, EC 2018

**Session organizer:**

Informs Annual Meeting 2015-2018

TEACHING

**USC Marshall School of Business**

Los Angeles, CA

• *Instructor*

*Spring 2017, 2018*

Class: BUAD 311 Operations Management

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 and MIT Department of EECS**

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.

• *Teaching Assistant, Lecturer: Itai Ashlagi*

*June 2014 - August 2014.*

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.

• *Teaching Assistant, Lecturer: Asuman Ozdaglar*

*Sep. 2013 - Dec. 2013.*

Class: 6.254 Game Theory with Engineering Applications

Introduction to fundamentals of game theory and mechanism design with motivations drawn from engineered/networked systems.

• *Teaching Assistant, Lecturer: Polina Goland*

*Jan. 2012 - May. 2012.*

Class: 6.437, Inference and Information

This course offers a graduate level introduction to the principles of statistical inference, with an emphasis on information theoretic perspectives.

- *Teaching Assistant, Lecturers: John Tsitsiklis, Patrick Jaillet* Jan. 2011 - May. 2011.  
Class: 6.986, Network Science and Models  
Introduction to and analysis of the main mathematical models used to describe large networks and dynamical processes that evolve on networks.

PROFESSIONAL **LinkedIn Data Science Team**, Palo Alto, CA *Summer 2012*  
EXPERIENCE Research Intern. Mentor: Simla Ceyhan.

SKILLS **Programming Languages:** Python, C, C++, Java, PowerBuilder, SQL, Matlab, Mathematica.  
**Languages:**

- *Greek* (native)
- *English* (fluent)