

# *New Faculty Colloquium*



*informs*

ANNUAL MEETING



2019 *Seattle*

# Agenda





# 2019 INFORMS NEW FACULTY COLLOQUIUM

**Friday, October 18 | Sheraton Grand Hotel - Cirrus Room**

**7–8pm Welcome Reception**

**Saturday, October 19 | Sheraton Grand Hotel - Issaquah Room**

**7–8am Registration and Breakfast - Metropolitan B, 3rd Floor**

**8–8:05am Welcome Address**

**8:05–9:15am Do's and Don'ts from Department Chairs**  
M. Lawley, B. Denton, S. Heragu

**9:15–10:15am Teaching and Student Mentoring**  
L. Albert, C. Smith, S. Heragu

**10:15–10:30am Coffee Break - Metropolitan B, 3rd Floor**

**10:30–11am Serving and Networking/JFIG**  
M. Lawley, L. Albert

**11–11:45am Interdisciplinary Research & Writing Collaborative Grants**  
S. Wild, A. Aswani, P. Vayanos, L. Boyle

**11:45am–1pm Lunch**

**1–1:45pm Working with PhD Students and Postdocs**  
L. Boyle, S. Jacobson, S. Henderson

**1:45–2:30pm Paper Writing - Find Topics and Be Productive**  
B. Nelson, C. Yano, M. Hu

**2:30–2:45pm Coffee Break**

**2:45–3:30pm Career and YIP Proposal Writing**  
G. Klutke, J. Pazour, A. Ghate

**3:30–4:30pm Navigating Journals and Editors' Advice**  
D. Simchi-Levi, M. Hu, C. Tang, J. Shi, J. Birge,  
S. Henderson, S. Benjaafar, D. Shier

**5pm All-Colloquia Reception - Metropolitan B, 3rd Floor**

# Colloquium Participants



## **Raed Al Kontar**

## **Nasibeh Azadeh Fard**

**Assistant Professor, Rochester Institute of Technology**  
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Nasibeh Azadeh-Fard is an assistant professor in the Department of Industrial and Systems Engineering at the Rochester Institute of Technology (RIT). She received her BS in information technology engineering from Iran University of Science and Technology and her MS and PhD in Industrial and Systems Engineering from Virginia Tech. From August 2016 to August 2019, she was a visiting professor in the Department of Industrial and Systems Engineering at RIT. Prior to joining RIT, she was a postdoctoral fellow at Clemson University's Risk Engineering and Systems Analytics Center, where she conducted research on risk analysis and risk mitigation action plans for American International Group (AIG) insurance company. Azadeh-Fard's main research areas include data analytics, healthcare systems engineering, risk analysis, early warning systems, and performance measurement and analysis.

## **Miao Bai**

**Assistant Professor, University of Connecticut**  
miao.bai@uconn.edu

Miao Bai is an assistant professor in the Department of Operations and Information Management at the University of Connecticut (UConn). He obtained his PhD in industrial and systems engineering at Lehigh University in 2017. Before joining UConn in 2019, he worked as a postdoctoral research associate in the Kern Center for the Science of Health Care Delivery at the Mayo Clinic. His primary research interest is to leverage mathematical optimization, machine learning, and data analytics to develop analytical and algorithmic solutions for complex problems in healthcare systems and medicine.

## **Carlos Cardonha**

**Assistant Professor, University of Connecticut**  
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Carlos Cardonha is assistant professor at the Department of Operations and Information Management at the University of Connecticut, with a PhD in mathematics (Technical University of Berlin, Germany) and a bachelor's and a master's degree in computer science (University of Sao Paulo, Brazil). His primary research interests are analytics, optimization, mathematical programming, and theoretical computer science, with a focus on the application of techniques in data science, machine learning, mixed integer linear programming, combinatorial optimization, and algorithms design to operations research problems.

## **Sreenath Chalil Madathil**

**Assistant Professor, University of Texas at El Paso**

Sreenath Chalil Madathil is an assistant professor in the Department of Industrial, Manufacturing, and Systems Engineering at the University of Texas at El Paso (UTEP). He completed his PhD in Industrial Engineering from Clemson University. He has a research background in operations research; data analysis; simulation; and process improvement in healthcare, energy, and supply chain management. He is interested in evidence-based research, improving the healthcare patient experience, and the design of resilient power networks to sustain disruptions of healthcare systems. He comes to UTEP from the Watson Institute of Systems Excellence, a State University of New York Research Foundation at Binghamton University. He is also a member of the Institute of Industrial & Systems Engineers (IISE) and serves as chair for the IISE Health Systems Track. He is a member of INFORMS and Alpha Pi Mu, an industrial engineering honor society.

## **Alison (Xiao) Chen**

### **Robert Cook**

**Assistant Professor, Northeastern Illinois University**  
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Rob Cook is an assistant professor in the College of Business and Management at Northeastern Illinois University, where he teaches applied statistics in the Department of Management and Marketing. His research focuses on disaster relief logistics, primarily last-mile distribution under Uncertainty. He currently lives in Chicago with his two dogs and cat. In his spare time (hah), he enjoys playing and listening to music, watching TV programs, and playing video games.

### **Iman Dayarian**

### **Zahra Gharibi**

### **Youngsoo Kim**

### **Rostyslav Korolov**

**Lecturer, Rensselaer Polytechnic Institute**  
rost28@gmail.com

Rostyslav hails from Ukraine and received a doctoral degree in decision Sciences and engineering systems at the Rensselaer Polytechnic Institute (RPI) in December 2018. He is currently employed as a lecturer at RPI. Prior to this Rostyslav earned computer engineering and business administration degrees from universities in Ukraine. His research interests are social media analytics, or big data analytics, in broader terms.

### **Ilbin Lee**

**Assistant Professor, University of Alberta**  
ilbin@ualberta.ca

Ilbin Lee is an assistant professor in operations management at the University of Alberta School of Business. He was a postdoctoral fellow in the School of Industrial and Systems Engineering at Georgia Institute of Technology. He obtained his PhD in industrial and operations engineering at the University of Michigan in 2015. His research interests include sequential decision-making based on large data and prediction, health data analytics, and wildfire applications. Before his PhD, he worked as a software researcher on speech recognition for three years.

### **Stanley Lim**

### **Jia Liu**

**Assistant Professor, Auburn University**  
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Jia (Peter) Liu is an assistant professor in the Department of Industrial and Systems Engineering, Auburn University. He graduated from Virginia Tech with a PhD in industrial and systems engineering and an MS in statistics. He also received a BS and an MS in electrical engineering from Zhejiang University, China. His current research interests include data-driven modeling and analytics for advanced manufacturing and other industries, particularly in situ additive manufacturing (AM) process monitoring, machine learning & artificial intelligence in AM quality control. His work has been published in several top tier journals, such as *IISE Transactions*, *IEEE Transactions on Automation Science and Engineering*, and one publication is featured in *ISE Magazine*. He also has practical work experience in different industries such as energy, manufacturing, and media, applying big data analytics and operations research to support critical business decisions in production and operation.

### **Yuanyang Liu**

**Assistant Professor, University of Tennessee, Knoxville**  
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Yuanyang is an assistant professor of data science in the Department of Business Analytics and Statistics, University of Tennessee, Knoxville. His research and teaching interests include business analytics, machine learning, causal inference, text analytics, social network analysis, human resource analytics, online health community, and sports analytics.

His current research is in the area of business analytics with a specific focus on labor markets. Applying data analytics for talent acquisition and retention has been identified as one of the most urgent challenges facing human resource (HR) leaders around the world; however, it is also one of the challenges that firms are least prepared to tackle. His current research strives to narrow such a capability gap between the urgency and readiness of data-driven HR management.

### **Sreenath Madathil**

### **Nasrin Mohabbati**

**Assistant Professor, California State University, San Bernardino**  
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Nasrin received her PhD in industrial and Systems Engineering from Auburn University in 2019. During her PhD, she led several research projects, including methodological research in stochastic optimization with applications in supply chain management and a multidisciplinary effort in data-driven analytics in healthcare. She was selected by the graduate school as the winner of the 2018 Frank Sturm Memorial Fellowship, which recognizes excellence in multidisciplinary research. Her teaching skills were recognized with the Saeed Maghsoodloo Annual Assistantship in 2018.

Nasrin is passionate about serving the community and empowering women in STEM disciplines. She received several regional and national awards in recognition of her leadership skills. As an assistant professor of logistics and supply chain management at California State University, San Bernardino, Nasrin is teaching undergraduate and graduate courses in supply chain management and data-driven decision making. Her research focuses on big data analytics in supply chain management, shared mobility, and stochastic routing and scheduling.

### **Destenie Nock**

### **Irem Orgut**

**Assistant Professor of Operations Management, University of Alabama**  
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Irem Orgut is an assistant professor of operations management at the Culverhouse College of Business at the University of Alabama. She received her PhD in industrial engineering with a minor in statistics from the Edward P. Fitts Department of Industrial and Systems Engineering at North Carolina State University. Prior to starting her doctoral studies, she received her double major BS degrees in industrial engineering and mechanical engineering from Boğaziçi University, Istanbul, Turkey.

For her research, she is interested in using stochastic modeling in combination with statistical learning methods to address complex problems in the context of healthcare operations and humanitarian logistics. She is specifically interested in problems that involve conflicting objectives and multiple sources of uncertainty. She is an active member of INFORMS. Her research has been featured on the National Science Foundation website and in the Society for Industrial and Applied Mathematics' *SIAM News*.

**Thiago Serra**  
**Bucknell University**  
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Thiago Serra joined Bucknell University's Freeman College of Management as an assistant professor of business analytics in August 2019. His current work focuses on theory and applications of decision diagrams, deep learning, and integer programming. Serra obtained his PhD in operations research at Carnegie Mellon University's Tepper School of Business and received the Gerald L. Thompson Doctoral Dissertation Award in Management Science in 2018. He was also awarded the INFORMS Judith Liebman Award in 2016 and best poster awards at the INFORMS 2016 Annual Meeting and the Princeton Day of Optimization 2018. Before Bucknell, he was a visiting research scientist at Mitsubishi Electric Research Labs from 2018 to 2019 and an operations research analyst at Petrobras from 2009 to 2013.

**Sait Tunc**  
**Assistant Professor, Virginia Tech**  
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Sait Tunc is an assistant professor in the Grado Department of Industrial and Systems Engineering at Virginia Tech. Tunc earned his PhD in industrial engineering from the University of Wisconsin-Madison in 2017 and then spent the past two years as a postdoctoral researcher at the University of Chicago Booth School of Business. Tunc's research focuses on application-driven theoretical problems and utilizes large-scale real-world databases, with particular emphasis on medical decision making and operational efficiency in healthcare delivery systems.

While at Booth, Tunc focused on operational problems in organ transplantation, where he designed nudge mechanisms to decrease organ wastage, developed a clinically detailed simulation model for the entire U.S. kidney transplant system, studied the problem of systematic gaming in heart transplantation, and worked on the strategic decisions of kidney transplant centers under competition.

**Ashwin Venkataraman**  
**Assistant Professor, University of Texas at Dallas**  
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Ashwin Venkataraman is an assistant professor of operations management at the Naveen Jindal School of Management at the University of Texas at Dallas. Prior to that, he was a postdoctoral fellow at Harvard University's Institute for Quantitative Social Science. His research interests lie at the intersection of machine learning, operations management, and marketing. Specifically, his research aims at developing novel methodologies to help firms address the challenges posed by the large amounts of data that they have access to nowadays.

Ashwin received MS and PhD degrees in computer science from the Courant Institute of Mathematical Sciences at New York University (NYU). During his graduate studies, he was the recipient of the NYU GSAS Dean's Dissertation Fellowship and the Jacob T. Schwartz PhD Fellowship. He also has experience working at eBay, Google, and IBM Research as part of internships, where he implemented some of his research ideas.

**Fabio Vitor**  
**Assistant Professor, University of Nebraska Omaha**  
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Fabio Vitor is an assistant professor in the department of mathematics at the University of Nebraska Omaha. He received a PhD in industrial engineering and a MS in operations research from Kansas State University, and a BS in industrial engineering from the Maua Institute of Technology (Brazil). Fabio also worked for Monsanto, Kalmar (Cargotec Corporation), and Volkswagen. His research interests include applied optimization modeling and the development of algorithms to more quickly solve continuous and discrete optimization problems such as linear, nonlinear, and integer programs.



### **Liang Xu**

**Assistant Professor, University of Nebraska - Lincoln**  
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Liang (Leon) Xu is an assistant professor of supply chain management and analytics at University of Nebraska - Lincoln. He earned his PhD in supply chain management from Smeal College of Business, Penn State University, and his MS in management science from Sun Yat-sen University in China. His main research interests include pharmaceutical supply chain, healthcare operations, and behavioral operations management. He applies a various set of methods such as analytical modeling, empirical methods, data analytics, and experiment designs in addressing real problems in these domains. Leon's published research has appeared in peer-reviewed journals including *Manufacturing & Service Operations Management* and the *International Journal of Production Economics*. He served as an ad hoc reviewer for *Decision Support Systems*. He taught business analytics at the undergraduate level.

### **Chiwei Yan**

**University of Washington, Seattle**

Chiwei is a postdoctoral researcher at Uber. In fall 2020, he will be joining the Department of Industrial and Systems Engineering at the University of Washington as an assistant professor. As a senior data scientist at Uber, he has led the design and implementation of Uber's current version of rider surge pricing model. He received his PhD in operations research from Massachusetts Institute of Technology in 2017. Chiwei's current research interest is in transportation and logistics, with a particular focus on optimization, data analytics, and emerging problems under a sharing economy.

### **Yiling Zhang**

**Assistant Professor, University of Minnesota**  
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Yiling Zhang is an assistant professor in the Department of Industrial and Systems Engineering at the University of Minnesota. She received her PhD in industrial and operations engineering from the University of Michigan. Her research interests include stochastic programming; integer programming; nonlinear programming; and applications of optimization techniques and statistical analysis in complex service systems, including energy, healthcare, and transportation. Her research has been published in journals such as *Operations Research*, the *SIAM Journal on Optimization*, and *Manufacturing and Service Operations Management*. Her work has been recognized by several awards, including the Richard & Eleanor Towner Prize for Distinguished Academic Achievement and the Murty Prize for Best Student Paper in Optimization. Yiling was involved in teaching nonlinear programming and discrete event simulation as a graduate student.

### **Long Zhao**

**National University of Singapore**  
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Long is an assistant professor in the Department of Analytics and Operations at the National University of Singapore Business School. His research interests lie in data-driven decision making. Specifically, he wants to develop decision tools that are both easy to understand and perform very well empirically. His favorite activity is discussing research. He also enjoys teaching, but his students probably don't find the work as enjoyable as he does.

### **Zifeng Zhao**

**Assistant Professor of Business Analytics, University of Notre Dame**  
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Zifeng is an assistant professor of business analytics at the Mendoza College of Business, University of Notre Dame since 2018. His research focuses on solving business analytics problems via statistics and machine learning. His interests include developing copula-based statistical models for multivariate time series and multivariate longitudinal data, designing extreme value theory-based models for financial risk monitoring, building efficient statistical algorithms for change-point detection and large-scale forecasting, and functional data analysis. Zifeng earned a PhD in statistics (2018) and an MS degree in machine learning from the University of Wisconsin-Madison.

# Committee



## 2019 COMBINED COLLOQUIA CHAIR



**Sandra D. Eksioglu**

**Hefley Professor in Logistics and Entrepreneurship  
Department of Industrial Engineering  
University of Arkansas**

Sandra Eksioglu is the Hefley Professor in Logistics and Entrepreneurship in the Department of Industrial Engineering, University of Arkansas. She received her PhD in industrial engineering from the University of Florida. Prior to joining the University of Arkansas, she was a faculty member at Mississippi State and Clemson universities. Her research interests include network optimization, stochastic programming, energy systems optimization, and supply chain optimization. She is an active member of INFORMS, the Institute of Industrial and Systems Engineers, and the American Society for Engineering Education.

## 2019 NEW FACULTY COLLOQUIUM CO-CHAIRS



**Nickolas Freeman**

**Assistant Professor, University of Alabama  
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Nickolas Freeman, PhD, is an assistant professor of operations management in the Department of Information Systems, Statistics, and Management Science in the Culverhouse College of Business. He also serves as a co-coordinator for the college's Master of Science in Business Analytics program and is an associate editor for *INFORMS Journal on Applied Analytics*. Freeman's research interests include healthcare operations management, supply chain management, and applied analytics.



**Siqian Shen**

**Associate Professor, University of Michigan  
siqian@umich.edu**

Siqian Shen is an associate professor in the Department of Industrial and Operations Engineering, University of Michigan at Ann Arbor, and also an associate director for the Michigan Institute for Computational Discovery & Engineering (MICDE). Siqian She received her BS degree in industrial engineering from Tsinghua University, China in 2007, and the MS and PhD degrees in Industrial and Systems Engineering from the University of Florida, USA, in 2009 and 2011, respectively. Her research interests include stochastic programming, network optimization, and integer programming. Applications of her work include transportation and energy. Her work has been supported by the National Science Foundation, Army Research Office, Department of Energy (DoE), and industrial funds. She is the recipient of the IIE Pritsker Doctoral Dissertation Award (first place), IBM Smarter Planet Innovation Faculty Award, and DoE Early Career Award.



# Speakers & Presenters





**Laura Albert**  
**Professor, University of Wisconsin-Madison**

Laura Albert, PhD, is a professor of industrial & systems engineering and a Harvey D. Spangler Faculty Scholar at the University of Wisconsin-Madison. Her research interests are in the field of operations research, with a particular focus on discrete optimization with application to homeland security and emergency response problems. Albert's research has been supported by the National Science Foundation, Department of Homeland Security, Department of the Army, and Sandia National Laboratory.

She has authored or co-authored more than 60 publications in archival journals and refereed proceedings. She has been awarded many honors for her research, including the INFORMS Impact Prize, four best paper awards, a National Science Foundation CAREER award, and Department of the Army Young Investigator Award. Albert is the INFORMS Vice President of Marketing, Communication, and Outreach. She is the author of the blogs Punk Rock Operations Research and "Badger Bracketology." You can find her on Twitter at @lauraalbertphd.



**Anil Aswani**  
**Assistant Professor, University of California, Berkeley**

Anil Aswani is an assistant professor in the department of industrial engineering and operations research at the University of California, Berkeley. His research interests include data-driven decision making, with particular emphasis on addressing inefficiencies in health systems and physical infrastructure. He has won an National Science Foundation CAREER award, a Hellman Fellowship for his research on food insecurity, the Leon O. Chua award from Berkeley for outstanding achievement in an area of nonlinear science, and a William Pierskalla Award runner-up from the INFORMS Health Applications Society.



**Saif Benjaafar**  
**Distinguished McKnight University Professor**  
**University of Minnesota**

Saif Benjaafar is the Distinguished McKnight University Professor at the University of Minnesota. He is head of the Department of Industrial & Systems Engineering at the University of Minnesota, where he also directs the Initiative on the Sharing Economy. He is a founding member of the Singapore University of Technology and Design where he served as head of Engineering Systems and Design. He is the editor-in-chief of the INFORMS journal *Service Science*.

He serves on the board of directors of Hourcar, a social car sharing organization. His research is in the area of operations management broadly defined, with a current focus on sustainable operations and innovation in business models, including sharing economy, on-demand services, and digital marketplaces. His research has been published in various INFORMS journals, including *Management Science*, *Operations Research*, and *Manufacturing & Service Operations Management*.

His work has been funded by grants from various organizations, including recently from the National Science Foundation, the Bill & Melinda Gates Foundation, the Department of Transportation, and the Singapore Ministry of Education, among others.



**John Birge**  
**Professor, University of Chicago**

John R. Birge is the Jerry W. and Carol Lee Levin Distinguished Service Professor of Operations Management at the University of Chicago Booth School of Business. He studies mathematical modeling of systems under uncertainty, especially for maximizing operational and financial goals using the methodologies of stochastic programming and large-scale optimization. In the energy sector, his interest has focused on mechanisms for including uncertainty considerations into electric power unit commitment and capacity investment decisions.

He has published widely and is the recipient of the Best Paper Award from the Japan Society for Industrial and Applied Mathematics, and Institute for Operations Research and the Management Sciences Fellows Award, Institute of Industrial Engineers Medallion Award, and he was elected to the National Academy of Engineering. A former dean of the Robert R. McCormick School of Engineering and Applied Sciences at Northwestern University, he has worked as a consultant for a variety of firms including the University of Michigan Hospitals, Deutsche Bank, Allstate Insurance Company, and Morgan Stanley. Birge earned a bachelor's degree in mathematics from Princeton University and a master's degree and PhD in operations research from Stanford University.



**Linda Boyle**  
**Professor, University of Washington**

Linda Ng Boyle is professor and chair of Industrial & Systems Engineering at the University of Washington (UW). She has a joint appointment in Civil & Environmental Engineering. She was previously on the faculty at the University of Iowa, and a research scientist at the U.S. Dept. of Transportation (DOT) Volpe Center. Boyle is the director of the Human Factors and Statistical Modeling Lab at the UW, where she studies driver-related issues, human-machine interactions, and behavioral adaptation.

Boyle has received funding from National Science Foundation, National Institutes of Health, U.S. DOT, state DOTs, the Transportation Research Board (TRB), and various automotive industries. She has authored over 150 scientific articles, book chapters, and technical reports. She was the past chair of the TRB Committee on Statistical Methods and served as an associate editor for the journal *Accident Analysis and Prevention*. She has organized or co-organized the Driving Simulation Conference-North America, Automotive User Interface, and the International Symposium on Human Factors in Driving Assessment. She is a co-author of the textbook *Designing for People: An Introduction to Human Factors Engineering*.



**Brian Denton**  
**Professor and Department Chair**  
**University of Michigan**

Brian Denton is chair of the Department of Industrial and Operations Engineering at the University of Michigan. His research interests are in data-driven sequential decision making and optimization under uncertainty with applications to medicine. He has a cross-appointment in the School of Medicine and is a member of the Cancer Center and the Institute for Healthcare Policy and Innovation (IHPI) at the University of Michigan. Before joining the University of Michigan, he worked at IBM, the Mayo Clinic, and North Carolina State University. His honors and awards include the National Science Foundation CAREER award, INFORMS Service Section Prize, INFORMS Daniel H. Wagner Prize, Institute of Industrial Engineers Outstanding



Publication Award, and Canadian Operations Research Society Best Paper Award. He served on the editorial boards of *Health Systems*, *IIE Transactions*, *Interfaces*, *Manufacturing & Service Operations Management*, *Medical Decision Making*, *Operations Research*, *Optimization in Engineering*, and *Production and Operations Management*. He served as the founding Medical Decision-Making Department Editor for *IIE Transactions on Healthcare Systems Engineering* from 2008 to 2015. He has co-authored more than 100 journal articles, conference proceedings, book chapters, and patents. He is past chair of the INFORMS Health Applications Section and previously held positions as secretary and president of INFORMS.



**Archis Ghate**  
**Professor, University of Washington**

Archis is a professor and associate chair in the Department of Industrial & Systems Engineering at the University of Washington in Seattle, where he currently holds the College of Engineering Endowed Professorship in Healthcare Operations Research. He joined the University of Washington as an assistant professor in 2006 after receiving a PhD in industrial and operations engineering from the University of Michigan in 2006 and an MS in management science and engineering from Stanford in 2003. He completed his undergraduate education at the Indian Institute of Technology, Bombay, India, in 2001.

His field of study is operations research with a methodological focus on stochastic and convex optimization. Archis is a recipient of the National Science Foundation CAREER award and of the award for Excellence in Teaching Operations Research from the Institute of Industrial Engineers. Archis has served on the editorial boards of several journals.



**Shane Henderson**  
**Professor,**  
**Cornell University**

Shane G. Henderson is a professor at the School of Operations Research and Information Engineering (ORIE) at Cornell University. He has previously held positions in the Department of Industrial and Operations Engineering at the University of Michigan and the Department of Engineering Science at the University of Auckland.

He is the editor-in-chief of *Stochastic Systems*. He has served as chair of the INFORMS Applied Probability Society, simulation area editor for *Operations Research*, and director of ORIE. He is an INFORMS Fellow. His research interests include discrete-event simulation, simulation optimization, transportation, and emergency services.



**Sunderesh Heragu**  
**Regents Professor, Head, and Humphreys Chair,**  
**Oklahoma State University**

Sunderesh S. Heragu is Regents Professor and head of the School of Industrial Engineering and Management at Oklahoma State University, where he holds the Donald and Cathey Humphreys Chair. Previously, he was the Duthie Chair in Engineering Logistics and director of the Logistics and Distribution Institute (LoDI) at the University of Louisville. He has also served as a professor at Rensselaer Polytechnic Institute and assistant professor at State University of New York (SUNY), Plattsburgh and he has held visiting appointments at SUNY, Buffalo; Technical University of Eindhoven, Netherlands; University of Twente, Netherlands; and IBM

Thomas J. Watson Research Center. He is author of the fourth edition of *Facilities Design* and has authored or co-authored more than 200 scholarly articles. He has served as principal investigator or co-investigator on research projects totaling over \$20 million funded by federal agencies such as the Department of Homeland Security, National Science Foundation, Defense Logistics Agency, and private companies such as General Electric. Heragu is a Fellow of the Institute of Industrial and Systems Engineers (IISE). He has received IISE's David F. Baker Distinguished Research award, Award for Technical Innovation in Industrial Engineering, two best paper awards from *IIE Transactions* on Design and Manufacturing Award, and the Gold Award of Excellence for Leadership in Facilities Planning and Design.

**Ming Hu**  
**Professor of Operations Management**  
**Rotman School of Management**  
**University of Toronto**



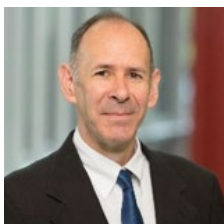
Ming Hu is a professor of operations management at Rotman School of Management, University of Toronto, and one of the 2018 Poets & Quants Best 40 Under 40 MBA Professors. He received the 2016 Wickham Skinner Early-Career Research Accomplishments Award from POMS and Best Operations Management Paper in *Management Science* Award from INFORMS (2017).

He currently serves as the editor-in-chief of *Naval Research Logistics*, co-editor of a special issue of *Manufacturing & Service Operations Management*, department co-editor of *Service Science*, associate editor of *Operations Research* and *Manufacturing & Service Operations Management*, and senior editor of *Production and Operations Management*. He also serves as vice-chair/chair-elect for the Revenue Management and Pricing Section of INFORMS. He received a master's degree in applied mathematics from Brown University and a PhD in operations research from Columbia University.

**Georgia-Ann Klutke**  
**Program Director**  
**National Science Foundation**

Georgia-Ann Klutke is a program director at the National Science Foundation (NSF). She manages the Operations Engineering program in the Division of Civil, Mechanical, and Manufacturing Innovation in the Engineering Directorate and serves as the cluster lead for the Operations and Design cluster. Prior to joining NSF, she was professor of industrial and systems engineering at Texas A&M University. She has also served on the faculties of the University of Massachusetts and the University of Texas at Austin. She holds a BS degree in mathematics from the University of Michigan and a PhD in industrial engineering and operations research from the Virginia Polytechnic Institute and State University.

**Sheldon Jacobson**  
**Founder Professor of Computer Science**  
**University of Illinois at Urbana-Champaign**



Sheldon H. Jacobson is a Founder Professor of Computer Science and director of both the Simulation and Optimization Laboratory and the Bed Time Research Institute in the Department of Computer Science at the University of Illinois at Urbana-Champaign. He received a BSc and MSc in mathematics from McGill University and an MS and PhD in operations research from Cornell University.



From 2012 to 2014, he was on leave from the University of Illinois, serving as a program director at the National Science Foundation. His research interests span theory and practice, covering decision making under uncertainty and optimization-based artificial intelligence, with applications in aviation security, public health, public policy, and sports. He has been recognized by numerous awards, including a Guggenheim Fellowship. He is a fellow of both IISE and INFORMS.



### **Mark Lawley**

#### **Professor and Head, Industrial and Systems Engineering, Texas A&M University**

Mark Lawley is professor and Head of the Department of Industrial & Systems Engineering at Texas A&M University and holder of the Sugar and Mike Barnes Department Head Chair. He also holds appointments in the departments of biomedical engineering and epidemiology and biostatistics and serves as deputy director of the Center for Remote Health Technologies and Systems, which focuses on developing healthcare technologies and systems for disease prevention, diagnosis, and management in the global health setting. Before joining Texas A&M in 2014, he served for 17 years on the faculty at Purdue University.

As a researcher, he has published over 130 technical papers, which have garnered four best paper awards, and supervised over 30 graduate students in the completion of their dissertations and theses. For his work in graduate education, he received the 2006 James H. Greene Graduate Educator Award from the School of Industrial Engineering at Purdue University.

Lawley is interested in the integration of remote health technologies into existing healthcare delivery systems, including tactical and strategic decision support for developing sustainable large-scale remote health systems, health policy implications of remote health capabilities, and the impacts of remote health on clinical workflow and population health. Lawley received his PhD in mechanical engineering from the University of Illinois at Urbana Champaign in 1995 and is a registered professional engineer in Texas.



### **Barry Nelson**

#### **Walter P. Murphy Professor, Northwestern University**

Barry L. Nelson is the Walter P. Murphy Professor of the Department of Industrial Engineering and Management Sciences at Northwestern University and a distinguished visiting scholar at Lancaster University in England. His research focus is on the design and analysis of computer simulation experiments on models of discrete-event, stochastic systems, including methodology for simulation optimization, quantifying and reducing model risk, variance reduction, output analysis, metamodeling, and multivariate input modeling. His application areas are manufacturing, services, financial engineering, and transportation.

He has published numerous papers and three books, including *Foundations and Methods of Stochastic Simulation: A First Course* (Springer, 2013). Nelson is a Fellow of INFORMS and IISE. In 2006, 2013, and 2015, he received the Outstanding Simulation Publication Award from the INFORMS Simulation Society; in 2009, 2011, and 2015, he was awarded the Best Paper–Operations Award from *IIE Transactions*; and in 2019, he received the David F. Baker Distinguished Research Award from IISE. His teaching has been acknowledged by a Northwestern University Alumni Association Excellence in Teaching Award, McCormick School of Engineering & Applied Science Teacher of the Year Award, and the IISE Operations Research Division and IISE Simulation and Modeling Division Teaching awards.





### Jennifer Pazour

#### Associate Professor of Industrial & Systems Engineering Rensselaer Polytechnic Institute

Jen Pazour is an associate professor of industrial and systems engineering at Rensselaer Polytechnic Institute (RPI) in Troy, NY. Her research and teaching focus on the development and use of mathematical models to guide decision making for logistics and supply chain challenges. Jen is a recipient of a National Science Foundation Faculty Early Career Development (CAREER) Award (2018), Johnson & Johnson Women in STEM2D Scholars Award (2018), Young Investigator Award from the Office of Naval Research (2013), and National Academies of Science Gulf Research Program Early-Career Fellowship (2016). She was awarded the 2018 IISE Logistics and Supply Chain Division Teaching Award and the 2017 Hamed K. Eldin Outstanding Early Career IE in Academia Award, both national awards from the Institute of Industrial and System Engineers.

She holds three degrees in industrial engineering (BS from South Dakota School of Mines & Technology, and MS and PhD from the University of Arkansas). She believes the world needs more people who can think analytically and systematically about complex problems and is an advocate for youth to pursue engineering and logistics careers. More information can be found at her research and teaching blog: <http://jenpazour.wordpress.com/>.



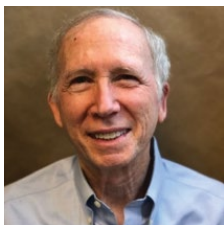
### Jianjun Shi

#### Professor, Georgia Institute of Technology

Jianjun Shi is the Carolyn J. Stewart Chair and Professor in the School of Industrial and Systems Engineering, with a joint appointment in the School of Mechanical Engineering, both at Georgia Institute of Technology. He received his BS and MS in Electrical Engineering from the Beijing Institute of Technology in 1984 and 1987 and his PhD in Mechanical Engineering from the University of Michigan in 1992.

Shi's research is in the area of data-enabled manufacturing, system informatics, and control. His methodologies integrate system informatics, advanced statistics, and control theory, and they fuse engineering systems models with data science methods for design and operational improvements of manufacturing and service systems.

The technologies developed by Shi's research group have been implemented in a wide variety of production systems and produced significant economic impacts. Shi is the founding chair of the Quality, Statistics and Reliability (QSR) Subdivision at INFORMS and currently serving as the editor-in-chief of *IISE Transactions*, the flagship journal of the Institute of Industrial and Systems Engineers (IISE). Shi received numerous awards for his research and teaching.



### Douglas Shier

#### Emeritus Professor, Clemson University

Douglas Shier earned an AB degree in applied mathematics from Harvard University and a PhD in operations research from the London School of Economics. He has worked at the Centers for Disease Control and Prevention and National Institute of Standards and Technology, as well as holding academic positions at the College of William & Mary and Clemson University. His research interests include networks, reliability, algorithms, optimization, and modeling. Shier is widely published in refereed journals and conference proceedings, and he has authored (or co-authored) five books, including the *CRC Handbook of Discrete and Combinatorial Mathematics*. He has been editor-in-chief of the *Networks* since 1999 and previously

served on the editorial boards of *Management Science*, *Operations Research*, *Operations Research Letters*, and *INFORMS Journal on Computing*. He is the current series editor of the *INFORMS TutORials* book series.



**David Simchi-Levi**  
**Professor, Massachusetts Institute of Technology**

David Simchi-Levi is a professor of engineering systems at Massachusetts Institute of Technology. His research focuses on developing and implementing robust and efficient techniques for operations management. He has published widely in professional journals on both practical and theoretical aspects of operations management. His PhD students have accepted faculty positions in leading academic institutes including University of California at Berkeley, Carnegie Mellon, Columbia, Duke Georgia Tech, and Harvard.

Professor Simchi-Levi is the editor-in-chief of *Management Science*, one of the two flagship journals of INFORMS. He served as the editor-in-chief of *Operations Research* (2006-2012), the other flagship journal of INFORMS, and of *Naval Research Logistics* (2003-2005). He is an INFORMS Fellow and MSOM Distinguished Fellow; he is also the recipient of the 2014 INFORMS Daniel H. Wagner Prize for Excellence in Operations Research Practice, 2014 and 2009 INFORMS Revenue Management and Pricing Section Practice awards, and Ford 2015 Engineering Excellence Award.

He was the founder of LogicTools, which provided software solutions and professional services for supply chain optimization and became part of IBM in 2009. In 2012, he co-founded OPS Rules, an operations analytics consulting company that became part of Accenture in 2016. In 2014, he co-founded Opalytics, a cloud analytics platform company focusing on operations and supply chain intelligence. The company became part of the Accenture Applied Intelligence in 2018.



**J. Cole Smith**  
**Associate Provost, Academic Initiatives**  
**Professor of Industrial Engineering**  
**Clemson University**

J. Cole Smith is associate provost of academic initiatives and professor of industrial engineering at Clemson University. His research regards mathematical optimization models and algorithms, especially those arising in combinatorial optimization, and he has had the pleasure of collaborating with colleagues across many different disciplines. Smith's awards include the Young Investigator Award from the Office of Naval Research, Hamed K. Eldin Outstanding Early Career IE in Academia Award, Operations Research Division Teaching Award, 2014 Glover-Klingman Prize for best paper in *Networks*, and the best paper award from *IIE Transactions* in 2007.

He became a Fellow of IISE in 2018. Smith serves as the chair of the INFORMS Computing Society, INFORMS Vice President of Publications, and IISE Senior Vice President for Continuing Education.



**Christopher Tang**  
**Professor, University of California, Los Angeles**  
**christangucla1@gmail.com**

Christopher Tang is a UCLA distinguished professor. He holds the Edward Carter Chair in Business Administration. He is serving as editor-in-chief of *Manufacturing & Service Operations Management (M&SOM)*.



**Phebe Vayanos**  
**Assistant Professor of Industrial &  
Systems Engineering and Computer Science**  
**University of Southern California**

Phebe Vayanos is an assistant professor of industrial and systems engineering and computer science at the University of Southern California (USC). She is also an associate director of the CAIS Center for Artificial Intelligence in Society at USC. Her research aims to address fundamental questions arising in data-driven optimization with an aim of tackling real-world decision- and policy-making problems in uncertain and adversarial environments. She is also interested in issues surrounding fairness, efficiency, and interpretability in resource allocation and machine learning.

Prior to joining USC, she was a lecturer in the Operations Research and Statistics Group at the MIT Sloan School of Management and a postdoctoral research associate in the Operations Research Center at Massachusetts Institute of Technology. She holds a PhD degree in operations research and an MEng degree in electrical and electronic engineering, both from Imperial College London.



**Stefan Wild**  
**Deputy Division Director, Computational Mathematician**  
**Argonne National Laboratory**

Stefan Wild is a computational mathematician and deputy division director of the Mathematics and Computer Science Division at Argonne National Laboratory and a senior fellow in the Northwestern Argonne Institute for Science and Engineering at Northwestern University. Prior to his current appointment, he was an Argonne Director's Postdoctoral Fellow and DOE Computational Science Graduate Fellow at Cornell University.

He obtained his PhD in operations research from Cornell University and BS and MS degrees in applied mathematics from the University of Colorado Boulder. At Argonne he leads a number of multidisciplinary computational science projects. His primary research focus is on algorithms and software for challenging numerical optimization problems.



**Candace Yano**  
**Professor of Operations and Information Technology Management**  
**University of California, Berkeley**

Candace ("Candi") Yano is the Gary and Sherron Kalbach Chair in Business Administration and professor at the Haas School of Business and professor in the Department of Industrial Engineering and Operations Research (IEOR) at University of California, Berkeley. She previously served as associate dean at Haas and department chair in IEOR. She holds an AB in economics, an MS in operations research, and an MS and PhD in industrial engineering from Stanford University. Professor Yano's primary research interests are production, inventory, and logistics management, particularly on how to deal with various sources of uncertainty in these contexts, as well as interdisciplinary problems involving operations and marketing. She has served as the editor-in-chief of *IIE Transactions* and department editor for *Management Science*, as well as in various editorial capacities for *Operations Research*, *Interfaces*, *Manufacturing & Service Operations Management*, *Service Science*, and *Naval Research Logistics*, among others. She served as general chair of the 2014 INFORMS Annual Meeting and is a Fellow of both INFORMS and the Institute of Industrial and Systems Engineers (formerly Institute of Industrial Engineers).

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