

## Curriculum Vita

**David Simchi-Levi**

*Citizenship:* American and Israeli  
*Academic Rank:* Professor of Engineering Systems  
*Academic Units:* Department of CEE and Institute for Data, Systems, and Society  
*Current Address:* Institute for Data, Systems, and Society  
 Rm. E17-459  
 Massachusetts Institute of Technology  
 Cambridge, MA 02139  
*Date Current:* 5/1/2021

**DEGREES:**

Ph.D. in Operations Research, Faculty of Management, Tel-Aviv University, July, 1987.  
 M.Sc. in Operations Research, Faculty of Management, Tel-Aviv University, June, 1984.  
 B.Sc. in Aeronautical Engineering, Technion Israel Institute of Technology, February, 1978.

**Ph.D. THESIS:**

The Multistop Location Problem, Tel-Aviv University

**PROFESSIONAL EXPERIENCE:**

Professor of Engineering Systems, Institute for Data, Systems, and Society and the Department of Civil & Environmental Engineering, Massachusetts Institute of Technology, 2000-present

Professor, Department of Industrial Engineering and Management Sciences, Northwestern University, 1997-2000.

Associate Professor, Department of Industrial Engineering and Management Sciences, Northwestern University, 1993-1997.

Associate Professor, Department of Industrial Engineering and Operations Research, Columbia University, 1991-1994.

Assistant Professor, Department of Industrial Engineering and Operations Research, Columbia University, 1987-1991.

Lecturer I, Department of Industrial Engineering and Operations Research, Columbia University, 1986-1987.

Lecturer, Principles of Statistics, Faculty of Management, Tel-Aviv University, 1984-1985.

**PROFESSIONAL ACTIVITIES:**

Editor-in-Chief, Management Science, 2018-today.

Department Editor for Management Science, 2017.

Former Editor-in-Chief, Operations Research, 2006-2012.

Former Editor-in-Chief, Naval Research Logistics, 2003-2005.

Former Senior Editor, Manufacturing & Service Operations Management (M&SOM), 2003-2005.

Former Department Editor for IIE Transactions, 2001-2005.

Former Transportation Area Editor for Operations Research, 1995- 1999.

Associate Editor for Networks and former Associate Editor for Operations Research, Management Science, Transportation Science, Naval Research Logistics, IIE Transactions and Telecommunications Systems.

Editorial Advisory Board Operations Research, 2012-present.

Editorial Advisory Board Journal of Business Logistics, 2010-present.

Editorial Advisory Board OriON, Journal of OR Society South Africa, 2008-present.

Co-Editor for a Focused Issue of Transportation Science on *Transportation/Manufacturing Interfaces*, 1995-1996.

Invited Associated Editor for a Special Issue of IIE Transactions on *Supply Chain Management*, 1995-1996.

Co-chair INFORMS Academic-Practitioner Interface Committee, 2002-present.

Member of the INFORMS Nicholson Committee, 2002, 2003.

Chairman of the INFORMS George Dantzig's Award Committee, 1997.

Chairman of the INFORMS George Dantzig's Award Committee, 1996.

Member of the ORSA/TIMS George Dantzig's Award Committee, 1995.

Chairman for the TIMS Dissertation Prize Committee on Location Related Research, 1991-1992.

Referee for: Annals of Operations Research; Discrete Applied Mathematics; European Journal of Operations Research; IIE Transactions; IEEE Transactions on Computers; J. Assoc. Comput. Mach.; J. Algorithms; Management Science; Mathematical Programming; Operations Research; Operations Research Letters; ORSA Journal on Computing; Networks; SIAM J. on Computing; Transportation Science.

## SCIENTIFIC AND PROFESSIONAL SOCIETIES:

The Institute for Operations Research and Management Sciences  
The Council of Logistics Management

## AWARDS AND DISTINCTIONS:

Awarded the prestigious 2020 INFORMS Impact Prize for playing a leading role in developing and disseminating a new highly impactful paradigm for the identification and mitigation of risks in global supply chains.

Received the 2020 Koopman Award given to an outstanding publication in military operations research for "Designing Response Supply Chain Against Bioattacks." Research done with Nikos Trichakis and Peter Yun Zhang and published in **Operations Research**, 2019, **Volume 67**, No 5, pp. 1246–1268.

Received the 2020 best paper (theoretical track) in the workshop on data mining and decision analytics for the paper "Online Pricing with Offline Data: Phase Transition and Inverse Square Law." Research done jointly with Jinzhi Bu and Yunzong Xu.

Finalist in the 2018 M&SOM Journal Best Paper Award for "Analytics for an Online Retailer: Demand Forecasting and Price Optimization." Research done with Kris Ferreira Johnson and Bin Hong Alex Lee.

Runner Up in the 2018 Production & Operations Management Society Best Paper Award Humanitarian Operations & Crisis Management Track for "Designing Response Supply Chain Against Bioattacks." Research done with Nikos Trichakis and Peter Yun Zhang.

Received the The 2017 CSAMSE Annual Conference Best paper Award for "Dynamic Recommendation at Checkout Under Inventory Constraint." Research done with Xi Chen, Will Ma and Linwei Xin.

Received the 2017 SIAM Data Mining Best Research paper Award for "Uplift Modeling with Multiple Treatments and General Response Types." Research was done with Yan Zhao and Xiao Fang.

Received the Ford 2015 Engineering Excellence Award for Identifying Risks and Mitigating Disruptions in the Ford Supply Chain. Research was done with William Schmidt, Yehua Wei and Peter Yun Zhang.

Received Second Place in the 2015 INFORMS Innovative Applications in Analytics Award for "Analytics for Online Retailing: Demand Forecasting and Price Optimization at Rue La La." Research was done with Kris Johnson and Alex Lee and implemented at online retailer Rue La La.

Received the 2014 INFORMS Daniel H Wagner Prize for Excellence in Operations Research Practice for "Identifying Risks and Mitigating Disruptions in the Automotive Supply Chain." Research was done with William Schmidt, Yehua Wei and Peter Yun Zhang and implemented at Ford Motor Company.

Received the 2014 INFORMS Revenue Management and Pricing Section Practice Award for "Demand Prediction and Price Optimization for First Exposure Items." Research was done with Kris Johnson and Alex Lee and implemented at online retailer Rue La La.

MSOM Distinguished Fellow Award, 2013 in recognition of outstanding research and scholarship in operations management.

Honor by the Journal *Production and Operations Management*, January- February 2013, for contributions to the theoretical and practical aspects of supply-chain management.

The 2012 Thinkers & Movers Award – given by DSC Logistics to recognize individuals whose innovative leadership has resulted in ground-breaking supply chain understanding and practices.

Board of Governors, Technion-Israel Institute of Technology, 2011–2018.

The papers "Coordinating Inventory Control and Pricing Strategies with Random Demand and Fixed Ordering Cost: The Finite Horizon Case" (Operations Research, 2004); "Coordinating Inventory Control and Pricing Strategies with Random Demand and Fixed Ordering Cost: The Infinite Horizon Case" (Mathematics of Operations Research, 2004); and "Coordinating Inventory Control and Pricing Strategies with Random Demand and Fixed Ordering Cost: The Continuous Review Model" (Operations Research Letters, 2006) co-authored with X. Chen won the 2009 INFORMS Revenue Management and Pricing Section Prize. According to the citation "*The papers present a fundamental contribution... they will stand as seminal papers of the field.*"

An add-on to ILOG LogicNet Plus XE, a key offering in ILOGs LogicTools Suite of Supply Chain Applications, was awarded a Stevie 2008 International Business Award in the category of Best New Product. The winners of the 2008 Stevies ([www.stevieawards.com](http://www.stevieawards.com)) were selected from more than 1,700 entries submitted by organizations and individuals in more than 30 countries.

The paper "A Mathematical Model for Interplanetary Logistics," co-authored with Christine Taylor, Miao Song, Diego Klabjan and Olivier de Weck, received an honorable mention (2nd prize) for the 2007 Logistics Spectrum Paper Award.

The paper "Supply Chain Coordination and Influenza Vaccination," co-authored with Stephen E. Chick and Hamed Mamani was awarded the Pierskalla Best Paper Award, 2006. The Pierskalla Award recognizes research excellence in the field of health care management science.

INFORMS Fellow Award, 2006 in recognition of outstanding contributions, achievements and service that have advanced the profession of operations research and the management sciences.

The book "Designing and Managing the Supply Chain: Concepts, Strategies and Case Studies" co-authored with P. Kaminsky and E. Simchi-Levi was

- Awarded the Outstanding IIE Publication Prize and the IIE Joint Publishers Book-of-the-Year Prize given in 2000 by the *Institute of Industrial Engineers*;
- Awarded the Outstanding First Edition of the Year Prize given in 2000 by *McGraw-Hill/Irwin*; and
- Selected by **Business 2.0**, December 2001 issue, as the best source for slashing time and costs and increasing productivity in the supply chain.

Appointed the Walter P. Murphy Professor of Industrial Engineering/Management Science, Northwestern University, effective September 1, 2000 through August 31, 2010 (declined due to a move to MIT).

The paper "Probabilistic Analysis of a Vehicle Routing Problem with Time Windows" co-authored with J. Bramel and C. L. Li was awarded the 1994 Jacob Wolfowitz Prize given by the *American Journal of Mathematical and Management Sciences*.

A Computerized System for School Bus Routing in New York City developed together with the NYC Board of Education/Office of pupil transportation, the Fund for the City of NY and Julien Bramel won the first place prize in the government/public sector category of the Windows World Open Competition, Atlanta May 1994. The competition was sponsored by, among others, Microsoft, Borland, AT&T, the Computer World magazine and the Windows World Conference.

Awarded the Alon Fellowship given by the Council of Higher Education, Israel, to outstanding young scientists, 1993-1996 (declined).

School of Industrial Engineering and Applied Science, Columbia University, Among the eight top finalists for the Outstanding Instructor Award, 1990-1991.

The paper "Minisum and Minmax Location of a Traveling Salesman" was awarded the Oded Levin prize for the best Operations Research paper in Israel in 1985.

M.Sc. degree awarded with Honors (Magna Cum Laude).

#### **RESEARCH INTERESTS:**

Big Data Analytics

Integration of Machine Learning and Optimization Techniques

Supply Chain Management

Revenue Management

#### **INVITED TALKS, ACADEMIA:**

Columbia University (5/86); M.I.T. (2/87); Northwestern University (4/88); University of Bonn (6/88); Rutgers University (12/88); RPI (3/89); The University of Maryland (10/89); Yale University (4/89); University of Montreal (1/91); M.I.T. (3/91); University of Rochester (4/91); Stanford University (2/92); The University of British Columbia (2/92); Georgia Tech. (4/92); NYU (4/92); Wharton School (5/92); Princeton (12/92); University of Toronto (1/93); Northwestern University (1/93); Berkeley (3/93); Erasmus University (6/93); University of Eindhoven (6/93); University of Michigan, Ann Arbor (10/93); University of Texas, Austin (12/93); University of Michigan, Ann Arbor (2/94); University of Chicago (11/94); Tel-Aviv University (11/95); Technion Israel Institute of Technology (11/95); Washington University, St. Louis (10/96); University of Singapore (12/96); M.I.T. (5/97); University of Texas A&M (3/98); University of Michigan, Ann Arbor (12/98); The University of Texas at Dallas (12/98); Wharton School (2/99); Lehigh University (2/99); MIT (4/99); Boston University (4/99); MIT (9/99); Georgia Tech (10/99); New Jersey Institute of Technology, National Center for Transportation and Industrial Productivity (12/99); University of Toronto (12/99); University of Pittsburgh (3/00); MIT (11/00); University of Southern California (1/01); University of Illinois at Urbana-Champaign (4/01); University of Florida, Gainesville (2/02); Chinese University of Hong Kong (7/02); Cornell University (11/02); Tel-Aviv University (12/02); Technion Israel Institute of Technology (12/02); North Carolina State University (3/03); MIT (10/03); Hong Kong Polytechnic University (11/03); Supply Chain Thought Leaders, Dartmouth (07/04); Rutgers University (08/04); INSEAD, France (12/04); University of North Carolina, Chapel Hill (3/05); University of Michigan, Ann Arbor (3/05); Penn State University (4/05); Chinese Academy of Sciences (8/05); MIT (9/05); University of Illinois at Urbana-Champaign (11/05); Vienna University of Economics and Business Administration (11/05); Washington University in St. Louis (2/06); Carnegie Mellon University (3/06); Duke (3/07); NYU (4/07); INSEAD (10/07); Keynote at Northwestern University Complexity Conference (4/07); Jochi University, Japan (11/07); Seoul National University, S. Korea (11/07); Korea University (11/07); Fudan University, China (11/07); Jiao Tong University, China (11/07); NUS, Singapore (11/07); Technion Israel Institute of Technology (1/08); Vienna University of Economics and Business Administration (1/08); IESE Business School, Barcelona Spain (2/08); Technical University of Munich (4/08); Shanghai Jiao Tong Universitys Antai College of Economics and Management (9/08); The University of Michigan's Tauber Institute for Global Operations (11/08); Purdue University (3/09); MIT Sloan (3/09); Columbia University (4/09); ESSEC, Paris France (1/10); University of Michigan, Ann Arbor (3/10), University of California at Berkeley, Fung Distinguished Lecture Series (2/11); University of California at Berkeley, Department of IEOR (3/11); Northwestern University (3/11); National University of Singapore (11/11); University of Montreal (8/12); University of Wisconsin (10/12); Technion Israel (1/13); London Business School (11/13); Stanford Business School (4/14); University of Michigan Business School (9/14); Washington State University (11/14); Washington University Olin School of Business (11/14); NYU Stern School of Business (12/14); University of Washington Business School (12/14); NUS Singapore (1/15); City University, Hong Kong (1/15); IESE Barcelona Spain (3/15); LIDS MIT (10/15); University of Chicago Business School (10/15); University

of Santa Clara Business School (10/15); Rutgers University (10/15); University of Minnesota IE Department (11/15); Operations Research Center at MIT (11/15); Arizona State University (2/16); Princeton University (3/16); University of Illinois at Urbana-Champaign (4/16); Koc University Retail Conference (5/16); John Hopkins University (9/16); IESE, Barcelona Spain (10/16); University College, London (11/16); London Business School (03/17); Berkeley (04/18); McGill University (4/18); John Hopkins University (4/18); Tsinghua University, Beijing (6/18); Singapore University, Operations Research Center (6/18); IESE, Barcelona Spain (10/18); Chinese University of Hong Kong, Business School (12/18); Chinese University of Hong Kong, Shenzhen Research Institute of Big Data (12/18); Hong Kong University of Science and Technology (12/18); University of Florida, Gainesville (1/19); University of Toronto (1/19); Perdue University (2/19); Carnegie Mellon University (2/19); London Business School (3/19); Columbia Business School (4/19); National University of Singapore (NUS), Operations Research Center (6/19); Singapore Management University (SMU), School of Business (6/19); Singapore University of Technology and Design (SUTD) (6/19); Institute for Data and Decision Analytics (iDDA), The Chinese University of Hong Kong, Shenzhen (6/19); College of Management and Economics, Tianjin University (6/19); China, Central South University (6/19); China, Hunan University in Changsha (6/19); Imperial College, London (9/19); Duke University (10/19); Berkeley University (12/19); Stanford University (12/19); Peking University (12/19); Shanghai University of Finance and Economics (12/19); Fudan University, Business School (12/19); The Hong Kong Polytechnic University (01/20); Wharton, University of Pennsylvania (02/20); Rutgers University (10/20); Columbia-Stanford joint seminar (10/20); Mathematical Foundations of Data Science, sponsored by Georgia Tech, Harvard, Northwestern, Princeton (11/20) .

#### **INVITED TALKS, INDUSTRY:**

GTE Laboratories (5/87); AT&T Bell Laboratories (6/89); GTE Laboratories (1/92); Senn-Delaney, A Unit of Arthur Andersen LLP (8/95); Krueger International (9/95); American President Business Logistics Services (11/95); LifeSource Blood Services (1/96); Philips Laboratories (3/96); Federal Express (4/96); i2 Technologies (8/96); Schneider Logistics (3/97); Andersen Consulting and Ryder Integrated Logistics Executives (2/98); Council of Logistics Management (3/98); General Motors (5/98); MIT Executive Program on Logistics and Supply Chain Management (7/98); Chicago INFORMS Chapter at United Airline (9/98); Allison Transmission (9/98); TruServ (3/99); MIT Executive Program on Logistics and Supply Chain Management (7/99); Warner-Lambert Company (8/99); TruServ (9/99); Amplats, World Leader in Platinum, South Africa (11/99); The Project Management Institute, St. Louis Chapter (2/00); General Motors (2/00); Sintec, Mexico City (5/00); Procter and Gamble (1/01); Cabot Industrial (1/01); EU/US Forum on Intermodal Freight Transport, Genoa Italy (4/01); The Economist Conference, New York (10/01); SAP, SAPPHIRE, Orlando (6/02); CFO workshop in NYC (6/02); SAP, SAPPHIRE Lisbon Portugal (9/02); Lego (1/03); Netcentricity Conference (sponsored by Dell with Michael Dell the keynote speaker) (4/03); International Senior Entrepreneurial Leadership Program, U. of St.

Gallen, Switzerland (6/03); Carolina Crescent Coalition's Supply Chain Management Task Force (9/03); Keynote at SAP Logistics and Supply Chain Management 2004 (2/04); Exostar Supply Chain Management Summit Meeting (2/04); Start Magazine Conference (2/04); Bose Corporation (06/04); Xerox (07/04); 3M (07/04); Dell Corporation (08/04); Keynote at ASUG, SAP user group meeting (10/04); Keynote at Sintec, Mexico City (5/05); University of Alabama, Huntsville, Executive Program (5/05); Israeli Purchasing and Logistics Managers Associations (IPLMA) (5/05); Keynote at Holon Academic Institute of Technology (5/05); Nokia, Finland (10/05); Supply Chain Management Forum V in Helsinki, Finland (10/05); GS1 Peru (11/05); Vienna University of Economics and Business Administration, Executive Program (11/05); Microsoft (3/06); Keynote Supply Chain Council Barcelona (10/06); TruEconomy (10/06); BASF (11/06); University of St. Gallen, Executive MBA in Logistics, (11/06); The 2006 MIT Manufacturing Conference (12/06); LG Electronics, Korea (11/07); Keynote at Airbus, Toulouse France (11/07); Keynote at the Aberdeen Supply Chain Summit (4/08); LG Electronics, Korea (7/08); Samsung Korea (7/08); Deutsche Post, DHL (7/08); Airbus (8/08); Norfolk Southern Corporation (8/08); e-Business International, Inc (10/08); Keynote APICS Chicago Chapter (11/08); Keynote TruEconomy (11/08); Bayer (12/08); IBM R&D (4/09); Georgia Tech, Supply Chain Executive Forum (4/09); Material Handling and Logistics Conference (9/10); Hindustan Unilever, Pepsi India, Frito Lay India, and ITC India (4/11); INFORMS Conference on OR Practice, Chicago (4/11); Nike (6/11); Forum on Global Operations for China's Manufacturing (9/11); Hitachi, Tokyo Japan (12/11); CNPC, Beijing China(12/11); Huawei, Shenzhen, China (12/11); Schneider Electric (3/12); China National Offshore Oil Corporation (CNOOC) (4/12); Ford (6/12); GS1, Peru Logistics Forum (9/12); SCM Logistics World, Singapore (10/12); International Supply Chain Management Congress, Amsterdam (11/12); .Louis Vuitton (3/13); PwC Frankfurt Germany (6/13); Saint Gobain (8/13); Supply Chain Management in Santiago, Chile (3/14); International Logistic Summit & Expo Mexico (4/14); CSCMP Spain SC SUMMIT Barcelona Spain (5/14); IBM Smarter Commerce Global Summit (5/14); Saint Gobain (6/14); First International Congress INDUSTRY AND ORGANIZATIONS in Bogota Columbia (8/14); Strata Conference and Hadoop World (10/14); SCDigest (4/15); Sanofi (6/15); Supply Chain & Logistics Summit, Barcelona, Spain (6/15); Logistics & Supply Chain Conference, Santiago, Chile (7/15); Coca Cola, FEMSA, Mexico City, Mexico (7/15); Deutsche Post (7/15); United Technology (7/15); Visa (8/15); Material Handling Institute (9/15); NESCOM2015 (10/15); Gurabi (10/15); Bayer (10/15); AB-InBev (11/15); Harvard Business Review (11/15); PwC Amsterdam (12/15); The Leadership Group, Spain (12/15); Mabe, Mexico City (3/16); P&G (8/16); The Leadership Group, Spain (10/16); Amazon, Seattle (01/17); Unilever, London (01/17); Caterpillar, Peoria (10/17); DHL, Singapore (5/18); JD.com, Beijing China (3/18); Unilever, London (4/18); JDA (5/18); Alibaba, China (5/18); Unilever (1/19); Unilever (5/19); Amazon Data Science Event (8/19); Ford Motor Company (03/20); InBev (04/20); Denso Corp. (09/20); INALUM, Mining Industry Holding Company of Indonesia (04/20); CVS (08/20).

### Plenary Talks:

Plenary Talk with Claus Heinrich (SAP Board of Directors) in SAP Insider on Logistics and Supply Chain Management (02/05).

Plenary talk at the Supply Chain Integration Workshop, Huntsville, AL (12/06).

Plenary Talk at ALIO - INFORMS Joint International Meeting, Buenos Aires, Argentina (6/10).

Plenary Talk with Kofi Annan in the Sustainability Gala, Grand Hotel Huis ter Duin, the Noordwijk coast, The Netherlands (7/10).

Plenary Talk in the Procurement Leaders Forum, Boston (9/10).

Plenary Talk in the NSF Symposium on Low Carbon Footprint Supply Chains, Washington, DC (10/10).

Plenary Talk at the 12th congress of the French National Society of Operations Research and Decision Science (3/11).

Plenary Talk at the Conference to Honor Oded Berman, University of Toronto, (10/12).

Plenary Talk at the POMS Conference, Hong Kong, (1/14).

Plenary Talk at INFORMS Annual Conference (11/14) after receiving the 2014 INFORMS Daniel H Wagner Prize for Excellence in Operations Research Practice.

Plenary Talk at INCOM (Information Control Problems in Manufacturing) 2015 symposium in Ottawa, Ontario, Canada, (5/15).

Plenary Talk at POMS (Production and Operations Management Society) 2016 Conference in Orlando Florida, (5/16).

Plenary Talk at MOPTA (Modeling and OPTimization: Theory and Applications) 2016 conference at Lehigh University (8/16).

Plenary Talk at ISB-POMS Workshop, Indian School of Business, Hyderabad, India, (12/16).

Plenary Talk at School of Engineering, HKUST, for the IEDA Inauguration Ceremony, Hong Kong, (01/18).

Plenary Talk at Tsinghua University, for Msotly OM Conference, Beijing, China (6/18).

Plenary Talk at Decision Sciences Institute, Chicago (11/18).

## **RESEARCH SUPPORT:**

DENSO "Supply Chain Risk & Resiliency," 2021-2022.

Mango "Optimize purchase recommendation for Mango," 2021-2022.

B.Tech "Price optimization," 2020-2021.

Accenture "Inventory Placement Optimization," 2020-2022.

Accenture, "Supply Chain Resiliency," 2020-2022.

Accenture, "Explainable AI," 2019-2021.

IBM, "Foundations of Online Resource Allocation," 2019-2021.

Oracle, "Dynamic Learning and Price Optimization with Endogeneity Effect-Part 2," 2018-2020.

Swiss Re, "Optimizing Offering in the Insurance Industry," 2018-2019.

BMW, "Pricing of Used Cars," 2018-2021.

Coppel, "Price Optimization," 2018-2020.

Zalando, "Dynamic Pricing: Forecasting, Learning and Optimizing," 2018-2021.

JDA, "Research Collaboration in Supply Chain and Retail Analytics," 2018-2021.

Western Digital, "The Bullwhip Effect in a High-Tech Supply Chain," 2017-2018.

Mitsubishi Electric, "Large Scale Holistic Optimization for Home Delivery Service Systems," 2016-2017.

Overstock, "Pricing at Overstock," 2016-2017.

InBev, "Optimizing Price Promotion," 2016-2017.

Oracle, "Dynamic Learning and Price Optimization with Endogeneity Effect," 2016-2017.

Nanjing Samples Technologies, "Designing Future Logistics Networks with APT," 2016.

Ford, "Revenue management by dynamic pricing and bundle pricing for parking and related mobility," 2016-2018.

Ford, "Mitigating Disruption Risk for Electronic Components," 2015-2017.

Accenture, "Business Process Outsourcing Research Program" 2014-2015.

United Technologies, "Modeling of Global Supply Chain" 2014-2015.

Boeing, "Identifying and Reducing Risk in Boeing Global Supply Chain" 2014-2015.

PWC, "Operational and Supply Chain Risk Research Project," 2012-2013.

Ford, "Methods and tools to analyze and optimize Ford supply chain flexibility: Applications to Electric and Hybrid vehicles," 2012-2013.

SAP, "Demand Forecasting without POS Data using In-Memory Technology," 2011-2013.

Bayer Business Services, "Lean Production" 2010-2011.

- TruEconomy, "SCM and the Agenda of the CEO and COO" 2009.
- MIT/MIST "Sustainable Supply Chain Networks Design: Recycling and Waste management Systems Optimization" 2009-2010.
- DHL "Supply Chain for Mobile Communication Devices" 2008-2009.
- National Science Foundation, "Nearly Optimal Solutions to Stochastic Optimization Problems" (co-PI with Jim Orlin) August 2008 - July 2011.
- Accenture, "High Performing Supply Chains" 2008-2009.
- Plasma, Protein, Therapeutics Association (PPTA), Analysis of ePesigree and Channel Integrity 2008-2009.
- TruEconomy, "Analysis of Supply Chains in Europe" 2008.
- SAP, "Demand Forecasting without POS Data" 2008.
- General Motors Corporation, "Flexibility in Global Supply Base Design" 2006-2008.
- NASA, "Interplanetary Supply Chain Management and Logistics Architectures" 2005-2007 (co-PI with Olivier de Weck).
- British Petroleum, "Managing Risk for Complex Oil Projects" January 2005- December 2007 (co-PI with Patrick Jaillet).
- SAP, "Coordinated Pricing and Production Decisions" May 2005- May 2006.
- The Pepsi Bottling Group, "Inventory Optimization" December 2004 - May 2005.
- National Science Foundation, "Coordinating Inventory Control and Pricing Strategies" July 2003 - June 2006.
- Department of Defense, "Shelf-Life Simulation" March 2003 - June 2003.
- Michelin, "Push-Pull Supply Chain Strategies" March 2003 - September 2003.
- Xerox, "Push-Pull Supply Chain Strategies" September 2002 - September 2004.
- SAP, "Forum on Supply Chain Innovation" January 2002 - December 2006.
- eBusiness Center, "Dynamic Pricing to Improve Supply Chain Performance" September 2000- August 2001.
- Office of Naval Research, "Theoretical Analysis and Practical Algorithms for Large-Scale Distribution and Logistics Problems" January 2001 - December 2003.
- National Science Foundation, "Transportation, Logistics and the Internet: New Challenges and Opportunities" (co-PI with Cynthia Barnhart) August 2000- August 2001.

General Motors Corporation, "Setting Forecasts and Initial Order Quantities for Spare Parts" March 2000- August 2000.

General Motors Corporation, "Effect of Make-To-Order on Supply Chain Performance" January 2000- July 2000.

General Motors Corporation, "Applied Pricing Research for CAFE and Vehicle Distribution" January 1999- May 2000.

Office of Naval Research. "Theoretical Analysis and Practical Algorithms for Large-Scale Distribution and Logistics Problems" February 1999- December 2000.

National Science Foundation, "Development and Analysis of Robust and Efficient Algorithms for Large Scale Production/Distribution Systems" July 1998-July 2001.

Port of Singapore Authority, "AGV Routing: Algorithms Development" (co-PI with Barry Nelson) November 1996- May 1999.

JGC Corporation of Japan, "Scenario Generation and Evaluation of Discrete-Event Simulation" (co-PI with Barry Nelson) October 1996-March 1997.

Office of Naval Research. "Theoretical Analysis and Practical Algorithms for Large-Scale Distribution and Strike-Routing Problems" February 1996- January 1999.

S&C Electric, Development of a computerized system for production scheduling, (co-PI with Yehuda Bassok) 1994-1996.

National Science Foundation, "Engineering Research Equipment: A Multi-Processor Computing Facility for Large Scale Optimization" (co-PI with Robert Fourer and Sanjay Mehrotra) September 1994-September 1995.

National Science Foundation, "Development and Analysis of Robust and Efficient Algorithms for Vehicle Routing" July 1994-July 1997.

Office of Naval Research. "Analytical Analysis of Vehicle Routing and Inventory Routing Problems" October 1992- December 1995.

National Science Foundation, "Workshop on Global Distribution Management" February 1993.

National Science Foundation, "Analytical Analysis of Vehicle Routing and Inventory Routing Problems" August 1990-August 1993.

Office of Naval Research, "Analytical Analysis of Vehicle Routing and Inventory Routing Problems" May 1990-September 1992.

Center for Telecommunication Research, June 1987-May 1994.

## **UNIVERSITY-WIDE RESEARCH INITIATIVES:**

"MIT-Technion Postdoctoral Fellowship Program," July 2012 – June 2022, MIT head of the Program.

"The Accenture and MIT Alliance in Business Analytics" November 2012-October 2022, PI and MIT head of the Alliance.

### **INDUSTRY/ACADEMIA COLLABORATION:**

Director of the "MIT Data Science Lab." The Lab develops analytic techniques and tools for improving decision making in environments that involve uncertainty and require statistical learning. The Lab achieves this vision by exploring theoretical foundations of operational problems and applying them in the development of algorithms that integrate machine learning and stochastic or deterministic optimization techniques. The methods developed by the Lab have been implemented by a large number of companies across a variety of industries such as Airlines, Insurance, Manufacturing and Retail.

Co-Director (with Charlie Fine) of the MIT "Forum on Supply Chain Innovation." This is an industry/academia collaboration dedicated to advancing and disseminating the best supply chain concepts, strategies and practices. 25 companies and organizations involved. Examples include SAP, Xerox, Michelin, US Department of Defense, Intel, Verizon, General Motors, Deloitte Research, Capgemini. Established in January 2002 (URL: <http://supplychain.mit.edu/innovation/>) and provides significant research funding through membership fee.

Director of the Supply Chain Initiative at Northwestern University which is an industry/academia collaboration dedicated to advancing and disseminating the best supply chain concepts, strategies and practices. Companies involved include Danzas, DSC Logistics, DuPont, General Motors, International Papers, Roche Pharmaceuticals, SAP America, Schneider National and Sears. Established by Professor Simchi-Levi, January 1999.

### **STARTUPS:**

Founded **LogicTools** which provided software solutions and professional services for supply chain optimization. LogicTools became part of IBM in 2009.

Co-Founded **OPS Rules**, an operations analytics consulting company. The company became part of Accenture in 2016.

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.

### **SOFTWARE DEVELOPMENT:**

”**Decision Support System for Production Scheduling**” developed for managing complex manufacturing processes. The system includes a large database, a schedule generation module and a user interface module. Written in Borland C++ for IBM PC and compatibles and runs under Windows. Developed jointly with P. Kaminsky.

”**A Computerized Version of the Beer Game**” developed as a course software tool to demonstrate the value of information in the supply chain. Written in Visual C++ for IBM PC and compatibles and runs under Windows. Developed jointly with P. Kaminsky.

”**School Bus Routing and Scheduling**” (developed with others) for New York City.

”**Facility Layout and Planning**” developed as a course software tool. Written in Turbo C for IBM PC and compatibles. Includes pop-up menus, full-screen edit function and graphics print-out option. Developed jointly with E. Simchi-Levi.

## BOOKS:

**The Logic of Logistics: Theory, Algorithms and Applications for Logistics Management**, Springer-Verlag, New York, (1997). Second edition (with X. Chen and J. Bramel) appeared in October 2004. Third edition (with X. Chen and J. Bramel) appeared in November 2013.

**Designing and Managing the Supply Chain: Concepts, Strategies and Case Studies**, Irwin/McGraw-Hill, IL, Published August 1999. Written together with P. Kaminsky and E. Simchi-Levi. The book has been translated to Chinese, Japanese, Korean and Portuguese. Second edition appeared in October 2002 and the third edition was published in July 2007. See Section on Awards for more information.

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<sup>1</sup>For ISI Citation, please note that some of Professor Simchi-Levi’s papers are reported in ISI knowledge under ”Simchi-Levi D\*” and others under ”Simchilevi D\*”. As of June 2016, total ISI citations is 3718 with h-index of 30 while total Google citation is 17661 with h-index of 55.

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134. Cheung W. C., D. Simchi-Levi and H. Wang (2017), Dynamic Pricing and Demand Learning with Limited Price Experimentation. **Operations Research**, Volume 65, No 6, pp. 1722-1731.
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157. Wang Y., B. Chen and D. Simchi-Levi (2020), "Multi-Modal Dynamic Pricing." To appear in **Management Science**.
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162. Gong X., V. Goyal, G. Iyengar, D. Simchi-Levi, R. Udhwani and S. Wang. (2021), "Online Assortment Optimization with Reusable Resources." To appear in **Management Science**.

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166. Chen X., D. Simchi-Levi and Y. Wang (2021), "Privacy-Preserving Dynamic Personalized Pricing with Demand Learning." To appear in **Management Science**.
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169. Chen B., D. Simchi-Levi, Y. Wang and Y. Zhou (2021), "Dynamic Pricing and Inventory Control with Fixed Ordering Cost and Incomplete Demand Information." To appear in **Management Science**.

#### NON-ACADEMIC PUBLICATION:

1. Simchi-Levi, D., L. Snyder and M. Watson (2002), Supply Chain Responsiveness in the Wake of a Major Crisis. **Supply Chain Management Review**
2. Simchi-Levi, D., E. Simchi-Levi and M. Watson (2003), Tactical Planning for Re-inventing the Supply Chain. **The Practice of Supply Chain Management**, edited by T. Harrison, H. Lee and J. Neale; Kluwer, pg. 13-30.
3. Simchi-Levi, D. and E. Simchi-Levi (2003), Finding the Right Balance. **CLO: Chief Logistics Officer**, December 2003, pg. 16-19.
4. Simchi-Levi, D. and E. Simchi-Levi (2003), Inventory Positioning: Exploring Push and Pull Supply Chains. **Parcel Shipping & Distribution**, June 2003.
5. Simchi-Levi, D. and E. Simchi-Levi (2004), Inventory Optimization: The Last Frontier. **Inbound Logistics**, March 2004.
6. Simchi-Levi, D., (2005) The Impact of RFID on Supply Chain Efficiency. **RFID and Beyond: Growing Your Business Through Real World Awareness**. C. Heinrich, Editor, Wiley, pp. 209–220.
7. Heinrich, C. and D. Simchi-Levi (2005), Do IT Investments Really Pay Off? **Supply Chain Management Review**, May, pp. 22-28.

8. Simchi-Levi, D. (2005), Innovative Supply Contracts. **The Missing Link: Designing Supply Chains for Growth, Profitability and Resilience**, Edited by J. Rothfeder, pp. 104–109.
9. Simchi-Levi, D., D. Nelson, N. Mulani and J. Wright (2008), Crude Calculations; Why high oil prices are upending the way companies should manage their supply chains. **The Wall Street Journal**, September 22, 2008.
10. Focacci, F. and D. Simchi-Levi (2009), Optimizing Inventory – Where to Start? **Manufacturing & Logistics IT**, January 2009.
11. Focacci, F. and D. Simchi-Levi (2009), Focus on Flexibility. **Manufacturing Chemist**, February 2009, pp. 44-46.
12. Focacci, F. and D. Simchi-Levi (2009), Flexibility: A Critical Factor in Today’s Pharmaceutical Manufacturing Industry. **Innovation in Pharmaceutical Technology**, September 2009.
13. Simchi-Levi, D. (2011), Operations Rules: How to Mitigate Risk based on Business Objectives. **The European Business Review**, March-April 2011.
14. Simchi-Levi, D. (2011), Greening the Global Supply Chain. **Our Common Future**, Conference summary report.

#### **BOOK REVIEW:**

A review on the book: Production and Operations Analysis, by Steven Nahmias. **Interfaces**, 20, pp. 178–179, (1990).

#### **Ph.D. STUDENTS:**

1. Chung-Lun Li, graduated May 1990. Currently holding a faculty position at Washington University, St. Louis.
2. Julien Bramel, graduated May 1992. Currently serves as VP, Risk Management CDC-IXIS Financial Guaranty. Recipient of the 1992 ORSA Nicholson Prize and the Transportation Science Section Prize for the best Ph.D. Thesis in 1992.
3. Qun Deng, graduated November 1994. Currently working for GAT in the area of Object-Oriented Design, Optimization and Fixed Income Modeling.
4. Lap Mui Ann Chan, graduated August 1995. Currently holding a faculty position at Virginia Polytechnic Institute and State University (Virginia Tech). Received an honorable mention in the 1994 ORSA Nicholson Student Paper Competition and the 1995 INFORMS Nicholson Student Paper Competition.
5. Ana Muriel, graduated July 1997. Currently holding a faculty position at the University of Massachusetts, Amherst, Massachusetts.

6. Phil Kaminsky, graduated August 1997. Received an honorable mention in the 1996 MSOM Student Paper Competition. Currently holding a faculty position at the University of California, Berkeley, Department of Industrial Engineering and Operations Research.
7. Jennifer Ryan, graduated June 1997. Currently holding a faculty position at Purdue University.
8. Ann Bixby, graduated September 1998 (co-advisor with Collette Coullard). Currently working for Aspen Technology, Inc.
9. Demir Ebru, graduated July 1999. Currently holding a faculty position at Virginia Polytechnic Institute and State University (Virginia Tech), Department of Industrial and Systems Engineering.
10. Zuo-jun Shen, graduated August 2000. Currently holding a faculty position at the University of California, Berkeley, Department of Industrial Engineering and Operations Research.
11. Hui Liu, graduated June 2001. Received the Dissertation-Year Henderson Fellowship for 2000-2001 awarded by the McCormick School of Engineering. Currently working for Verizon Laboratories.
12. Julie L. Swann, graduated September 2001. Received the Doctoral Dissertation Award for 2002 given by the Council of Logistics Management. Currently on the faculty at the School of Industrial and Systems Engineering, Georgia Tech.
13. Deniz Ceglar, graduated May 2001. Received the Doctoral Dissertation Proposal Award from the Society of Logistics Engineers. Currently an associate with the management consultants Booz Allen & Hamilton.
14. Cheng-Feng Chou, graduated September 2001. Received the Dissertation-Year Graham Fellowship for 2000-2001 awarded by the McCormick School of Engineering. Currently holding a faculty position at National University of Singapore, Department of Decision Sciences.
15. Yao Zhao, Graduated July 2002. On the faculty at Rutgers University, School of Management.
16. Xin Chen, Graduated May 2003. Currently on the faculty at UIUC. Awarded an **honorable mention** in the 2002 **Nicholson Student Paper Competition** as well as a **Second Prize** in the 2002 **MSOM Student Paper Competition**.
17. Victor Martinez de Albeniz, Graduated in June 2004. Currently on the faculty at IESE Business School, Spain. Awarded an **honorable mention** in the 2003 **Nicholson Student Paper Competition**.
18. Louis Laungkesorn, Graduated August 2004 (co-advisor with Seyed Iravani). Currently working at the University of Pittsburgh.

19. Tieming Liu, Graduated August 2005. Currently on the faculty at Oklahoma State University.
20. Stephen Shum, Graduated August 2007. Currently on the Faculty at the Business School, Chinese University of Science at Technology, Hong Kong. Awarded an **honorable mention** in the 2006 **Nicholson Student Paper Competition**.
21. Pranava Goundan, (co-advisor with Andreas S. Schulz) Graduated August 2007. Currently working for Analytics Solutions, Boston, MA. **Finalist** in the 2007 **Nicholson Student Paper Competition**.
22. Pamela Pen-Erh Pei, Graduated April 2008. **Finalist** in the 2007 **MSOM Student Paper Competition**.
23. Hamed Mamani, Graduated August 2008. Currently on the Faculty at the University of Washington, Foster School of Business. **Finalist** in the 2006 **Nicholson Student Paper Competition**. The paper "Supply Chain Coordination and Influenza Vaccination," co-authored with Stephen E. Chick and David Simchi-Levi was awarded the **Pierskalla Best Paper Award, 2006**.
24. Chiwon Kim, Graduated June 2008, currently at McKinsey.
25. Hariharan Lakshmanan, Graduated, September 2008, currently at Oracle.
26. Ye Lu, Graduated July 2009. **Finalist** in the 2009 **Nicholson Student Paper Competition**. Currently on the faculty at the Department of Management Sciences, College of Business, City University of Hong Kong.
27. Miao Song, Graduated in August 2010. Currently on the faculty of the University of Hong Kong.
28. Cristian Figueroa, Graduated in August 2013. Currently serves as a Data Scientist at Facebook.
29. Yehua Wei, Graduated in August 2013. **Second Place** in the 2011 **Nicholson Student Paper Competition**. Currently on the faculty at Duke University's Fuqua School of Business.
30. William Schmidt, Graduated in August 2013. Currently on the faculty at Cornell University's Johnson Graduate School of Management.
31. Chonnikarn (Fern) Jira, Graduated in August 2013. Currently at McKinsey.
32. Kris Johnson, Graduated in May 2015. Currently on the faculty at Harvard Business School.
33. Arzum Akkas, Graduated in August 2015. Currently on the faculty at the School of Business, Boston University.

34. He Wang, Graduated May 2016. Currently on the faculty at the School of Industrial and Systems Engineering, Georgia Tech.
35. Wang Chi Cheung, Graduated August 2016. Currently on the faculty at National University of Singapore.
36. Yan Zhao, Graduated July 2017. Currently at Facebook.
37. Xiao Fang, Graduated November 2017. Currently at Facebook.
38. Clark Pixton, Graduated May 2018. Currently on the faculty at BYU Marriott School of Business.
39. Zachary Owen, Graduated May 2018. Currently at Verily (Google's biotech arm).
40. Will Ma, Graduated July 2018. Currently on the faculty at Columbia Graduate School of Business.
41. Peter Yun Zhang, Graduated June 2019. Currently on the faculty at Carnegie Mellon University's Heinz College of Information Systems and Public Policy
42. Milashini Nambiar, Graduated June 2019. Currently a research scientist at the Institute of High Performance Computing, Agency of Science, Technology and Research, Singapore. Winner, 2019 MSOM student paper competition for "Dynamic Learning and Pricing with Model Misspecification."
43. Louis Lester Chen, Graduated August 2019. Currently on the Faculty at Naval Post-graduate School's Operations Research Department.
44. Michael Beeler, Graduated August 2019. Currently at Athanor Capital LLC.
45. Li Wang, Graduated June 2020. Currently a Research Scientist at Lift.
46. Elaheh Fata, Graduated August 2020. Postdoc at Columbia University (starting September 1st, 2020); will join Queen's University as Assistant Professor January 1st, 2021.
47. Rui Sun, Graduated August 2020, Currently a research scientist at Alibaba,
48. Jinglong Zhao, Accepted a faculty position at Boston University. Expected graduation June 2021. Received the first-place award in the 2020 Revenue Management and Pricing Student Paper competition for his paper "Design and Analysis of Switchback Experiments."
49. Ruihao Zhu, Accepted a faculty position at Purdue University. Expected graduation June 2021. Finalist 2019 George Nicholson Student Paper Competition for "Hedging the Drift: Learning to Optimize under Non-Stationarity."
50. Yiqun Hu, Expected graduation August 2022.

51. Hanzhang Qin, Expected graduation August 2022.
52. Hanwei Li, Expected graduation August 2022.
53. Xiaoyue Gong, Expected graduation June 2022.
54. Yunzong Xu, Expected graduation June 2023. Finalist in 2019 APS student paper competition for "Phase Transitions and Cyclic Phenomena in Bandits with Switching Constraints." Finalist in the 2020 George Nicholson Student Paper Competition for his paper "Bypassing the Monster: A Faster and Simpler Optimal Algorithm for Contextual Bandits under Realizability."
55. Sabrina Zhai, Expected graduation June 2023.
56. Prem Murali Talwai, Expected graduation June 2024.
57. Feng Zhu, Expected, Expected graduation June 2024.
58. Chonghuan Wang, Expected graduation June 2024.

#### **POST DOCTORAL FELLOW:**

1. Dr. Lap Mui Ann Chan, September 1995-August 1996.
2. Dr. Frank Y. Chen, September 1996-August 1997.
3. Dr. Xin Chen, September 2003-August 2004.
4. Dr. Nir Halman, September 2005-August 2009.
5. Dr. Jinzhi Bu, August 2019-present.
6. Dr. Ali Shameli, August 2019-present.
7. Dr. Menglong Li, January 2021-present.

#### **CONFERENCE PRESENTATIONS:**

Numerous presentations at conferences of professional societies including INFORMS joint National Meeting, SIAM Conference on Optimization, Mathematical Programming, and Israeli ORSIS meetings.

#### **EXECUTIVE PROGRAMS:**

Numerous executive education programs on supply chain management and Business Analytics for

- MIT (Sloan School of Management) from 2000 until today,

- MIT (Engineering) from 2014 until today,
- Northwestern University (Kellogg) from 1995 until 2000,
- University of Michigan Business School from 1999 until 2001,
- Vienna University of Economics and Business Administration, from 2003 until 2004,
- Industry: custom programs for many companies.

### **COURSES TAUGHT:**

Numerous courses at

- MIT: Systems Simulation; Systems Optimization; Supply Chain Planning (with S. Graves); Manufacturing Systems and Supply Chain Design, (with S. Graves); Operations Management; The Theory of Operations Management (with R. Levi); The Theory of Operations Management (with K. Zheng),
- Northwestern: Systems Simulation; Production and Economics; Decision Models; Production Scheduling; Supply Chain Management; Logistics Management; Inventory and Distribution Systems,
- Columbia: Facilities Planning and Physical Distribution; Production Management; Routing; Systems Simulation, Decision Models.

### **SERVICE:**

Administrator, CIM Laboratory, School of Engineering, Columbia U., 1987-1993

Library Committee, School of Engineering, Columbia U., 1987-1993

Admission Committee, School of Engineering, Columbia U., 1987-1993

Committee on Instruction, School of Engineering, Columbia U., 1990-1992

Graduate Committee, Department of IE/MS, Northwestern U., 1994-2000

Chairman, Undergraduate Manufacturing Academic Committee, School of Engineering, Northwestern U., 1994-2000

Promotion and Tenure Committee, School of Engineering, Northwestern U., 1997-2000

Chairman, IE Search Committee, 1998-1999

Director of the Supply Chain Initiative at Northwestern University, 1999-2000

Member of the Optimization Technology Center, a joint enterprise of Argonne National Laboratory and Northwestern University, 1996-2000

Member of the MIT Committee on Operations Research, 2000-2003

Civil Engineering Undergraduate Education Committee 2000-2002

Member of the MIT Master of Science in Transportation (MST) Review Committee, 2000-2001

Head, Engineering Systems Group, Department of Civil and Environmental Engineering, 2002-2003

Head, CEE/Systems PhD Program, 2003-2007

Co-Director, SDM (Systems Design and Management) at MIT, 2003-July 2010

Co-Director, LGO (Leaders for Global Operations) at MIT, 2003-August 2016

Head "The Accenture and MIT Alliance in Business Analytics," 2012-present

Head "The MIT-Technion Postdoctoral Fellowship Program," 2012-present.