

CURRICULUM VITAE

SERGIO CHAYET

Olin Business School
Washington University in St. Louis
Campus Box 1156
One Brookings Drive
St. Louis, MO 63130
Tel: (314) 935-6769
chayet@wustl.edu

9 Danfield Rd.
Saint Louis, MO 63124
Tel: (314) 809-6348

Education

- 1999 Ph.D., Industrial Engineering and Management Sciences
Northwestern University, Evanston, IL
GPA: 4.0/4.0
- 1994 M.S., Industrial Engineering and Management Sciences
Northwestern University, Evanston, IL
GPA: 4.0/4.0
- 1992 M.S., Physics
The University of Chicago, Chicago, IL
GPA: 3.6/4.0
- 1988 B.S., Mathematics, B.S., Physics, *Summa cum laude*
Universidad Nacional Autónoma de México (UNAM), Mexico City
GPA: 10.0/10.0

Full-Time Academic Employment

- 2010-Present Director, Operations and Supply Chain Management MBA Platform
Olin Business School, Washington University in St. Louis, St. Louis, MO
- 2009-Present Senior Lecturer in Operations and Manufacturing Management
Academic Director, MS in Supply Chain Management program
Olin Business School, Washington University in St. Louis, St. Louis, MO
- 2005-2009 Assistant Professor of Operations and Manufacturing Management
Olin Business School, Washington University in St. Louis, St. Louis, MO
- 1999-2005 Assistant Professor of Operations Management
Graduate School of Business, The University of Chicago, Chicago, IL

Research Interests

Product line design and problems in the operations–marketing interface. Stochastic modeling of production, service and inventory systems, operational design issues in competitive and strategic decisions.

Research

Published Papers

“Product Variety and Capacity Investments in Congested Production Systems,” with Panos Kouvelis and Dennis Yu. *Manufacturing and Service Operations Management* **13**(3).

“Risk-sensitive sizing of responsive facilities,” with Wallace J. Hopp. *Naval Research Logistics* **55**(3).

“Using an optimized queuing network model to support wafer fab design,” with Wallace J. Hopp, Mark L. Spearman, Karen L. Donohue and Esma S. Gel. *IIE Transactions* **34**(2).

“An algorithm to relate general solutions of different bidimensional problems,” with Sergio A. Højman, Darío Nuñez and Marco A. Roque. *Journal of Mathematical Physics* **32**(6).

Working Papers

“Integrated Product Positioning and Capacity Decisions when Demand is Uncertain,” with Panos Kouvelis and Dennis Yu. *Working Paper, Olin Business School*.

“Partial flexibility,” with Panos Kouvelis and James Tian. *Working Paper, Olin Business School*.

“Tradable supply options,” with Panos Kouvelis and Haiyan Wang. *Working Paper, Olin Business School*.

“Sequential entry with capacity, price, and leadtime competition.” with Wallace J. Hopp. *Working Paper, Northwestern University*.

“Lead time competition under uncertainty,” with Wallace J. Hopp. *Working Paper, Northwestern University*.

Published Book Chapters

“Product design, pricing, and capacity investment in a congested production system,” with Panos Kouvelis and Dennis Z. Yu. Invited chapter for *Consumer-Driven Demand and Operations Management Models*, S. Netessine and C. S. Tang (Eds.), International Series in Operations Research and Management Science, Vol 131, Springer Publishing, 2009.

“The marketing-operations interface,” with Wallace J. Hopp and Xiaowei Xu. Invited chapter for *Handbook of Quantitative Supply Chain Analysis: Modeling in the E-Business Era*, D. Simchi-Levi, D. Wu and M. Shen (Eds.), International Series in Operations Research and Management Science, Kluwer Academic Publishing, 2004.

Teaching Experience

Washington University in St. Louis, Olin Business School

Project Management (MBA, PMBA and MSSCM) Fall 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020 and 2021 Spring 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021 and 2022

Operations Management (MBA) Fall 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020 and 2021

Operations Management (PMBA) Fall 2007, 2008 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019 and 2020, Spring 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021 and 2022

Operations Management Foundations (MSSCM) Summer 2010, 2011, 2012, 2013, 2014, 2015 and 2021, Fall 2016, 2017, 2018, 2019, 2020 and 2021

The Global Economy - Global Supply Chains (EMBA) Spring 2010, 2011, 2012, 2013, 2014, 2015 and 2016; Fall 2010, 2011, 2012, 2013, 2014, 2015 2016 (two cohorts), 2017, 2018, 2019 and 2020; Summer 2017, 2018, 2019 and 2020

Global Management Studies - OM (MBA and PMBA) Spring 2006, 2014, 2015, 2016, 2017, 2019 and 2020

Operations Policy & Strategy (PMBA) Fall 2004, 2005 and 2006

Operations Analysis (PMBA) Fall 2004, 2005 and 2006

The University of Chicago Booth School of Business

Full-time: Winter 2000 - Spring 2005; Visiting Faculty: Summer 2009 - Summer 2021

40000–*Operations Management: Business Process Fundamentals*

40111–*Project Management*

Taught the courses in the full-time, evening, and weekend MBA programs

The University of Michigan Ross School of Business

Visiting Faculty: Fall 2018 - Fall 2021

WMBA 617–*Project Management*

T0 616–*Project Management*

Taught the courses in the weekend MBA and MSSCM programs

Consulting and Other Experience

Express Scripts — Sales and Operations Planning Best Practices, 2021

Bayer — Envisioning the Future Roadmap of Bayer Crop Science and Distribution, 2020

St. Louis County Courts — Implementing Covid-19 Procedures, 2020

Nestle IT — Organization Response and Stakeholder Engagement under Covid-19, 2020

Emerson — Section 232 and 310 Tariff Impact Analysis, 2018

Monsanto — Study on Available Global Warehousing Technologies and Tailored Recommendations, 2018

Emerson — Improving Emerson's Steel Distribution Network, 2017

Emerson Tool Company — Stock vs. Cross-Dock for ProTeam in Richmond Hill, 2017

Emerson — Indirect Materials: MRO and Capital Equipment, 2016

Boeing — Modeling the Evolution of the Defense Aerospace Supply Chain, 2016

Emerson Tool Company — Supplier Risk Management: Tools and Strategy, 2015

Emerson — Environmental Compliance Scorecard, 2015

Emerson Electric — Supplier Risk Identification and Assessment, 2014

Emerson Electric — Capacitated Make/Buy Analysis for Consumer Appliances, 2013

Eaton Aerospace — Forecasting and Inventory Management for Intermittent Parts Demand, 2013

Emerson Electric — Far and Near Sourcing, 2012

Eaton Aerospace — On-Time-Delivery and Material Flow Improvement, 2012

Boeing — Supply Chain Risk Management, 2011

Emerson Electric — Lead Time Reduction, 2011

Medical Transportation Management (MTM) — Feasibility Study of Associate Driver Program, Routing Analysis, 2010

Boeing — Supplier Qualification, Certification, and Incentives, 2009

Covidien — Supply Chain Key Performance Indicators Selection and Analysis, 2009

Motorola and the National Science Foundation
 Queuing Cost of Ownership Model project
 Developer 1995-1998

- Designed queuing network performance evaluation algorithm
- Wrote and verified performance evaluation module of computer program

ZS Associates, Evanston, IL
 External Consultant 1993, 1994

- Developed strategic model for allocating sales force and advertising promotion across products and market segments aimed at clients in the pharmaceutical industry
- Formulated mathematical model to generate near-optimal starting solution, implemented prototype optimization computer program, and facilitated project transfer to new software development team

Presentations

“How Supply Chain Relationships May Change in the Wake of COVID-19” Freeborn and Peters, LLC, Summer 2020.

“A Practical Introduction to Project Management” Saint Louis County Courts, Spring 2020.

“Managing Consulting Projects” Saudi Telecomm, Ann Arbor, MI, Summer 2018.

“Managing Project Task Uncertainty and Multiple Stakeholders” Hotwire.com, San Francisco, CA, Summer 2017.

“How to (Consistently) Complete Uncertain Projects on Time” Express Scripts, Saint Louis, MO, March 2016.

“New Product and Project Management” SixThirty, Saint Louis, MO, Summer 2015.

“State-of-the-art for Managing Time-Critical Projects” “On-Time Completion of Uncertain Projects” Boeing, Saint Louis, MO, Spring 2015.

“Managing Scope-Changing Projects” MasterCard, Saint Louis, MO Summer 2014.

“The Evolution of Postponement in Global Supply Chains” Tokyo, Japan, Spring 2014.

“Critical chain project management” Institute for Supply Management, Saint Louis, MO, Spring 2014.

“Leading projects: Managing multiple stakeholders” Olin Business School, Saint Louis, MO, Spring 2013.

“Critical chain as state-of-the-art project management practice” Operational Excellence Association, Saint Louis, MO, Spring 2012.

“Vertical differentiation and capacity planning when the market’s potential and size are uncertain” INFORMS, San Diego, CA, Fall 2009.

“The role of flexibility on product line design for congested production systems” INFORMS, Washington, DC, Fall 2008.

“Product line design and capacity planning under demand uncertainty” INFORMS, Washington, DC, Fall 2008.

“Product variety and congested production systems” INFORMS, Seattle, WA, Fall 2007.

“Product variety and congested production systems” Sauder School of Business, University of British Columbia, Vancouver, BC, Canada, Fall 2007.

“Supply chain contracting under imperfect deliveries” INFORMS, San Francisco, CA, Fall 2005.

“Imperfect deliveries and the supply chain” POMS Chicago 2005.

“Sequential entry with capacity, price, and leadtime competition: An Operations aware model,” Olin School of Business and Illinois Institute of Technology, Winter 2005

“Strategic Capacity Planning for Responsive Production and Service Systems,” Metron, Inc., (Reston, VA) Winter 2004, Raytheon (Woburn, MA) Winter 2005, Lawrence Livermore National Laboratory (Livermore, CA), Spring 2005

“Operations and Strategy: The RDRAM Industry,” Graduate School of Business and Economics, Universidad Anáhuac, Mexico City, Spring 2001

“Strategic Capacity Planning under Price and Lead Time Competition,” INFORMS, San Antonio, TX, Fall 2000

“Lead time Competition under Uncertainty,” INFORMS, Seattle, WA, Fall 1998

“Strategic Semiconductor Capacity Planning,” INFORMS, Dallas, TX, Fall 1997

“Facility Sizing and Equipment Selection for New Wafer Fabs,” IERC Research Conference, Miami, FL, 1997

“Fluid Models for Semiconductor Facility Design,” INFORMS, Atlanta, GA, Fall 1996

Awards and Honors

Reid Teaching Award (PMBA required courses), Olin Business School:

May 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2021 and **2022**; Year 2017, 2018, 2019 and 2020

September 2007, 2008, January 2009, December 2009, 2010, 2011, 2012, 2013, 2014 and 2021

Reid Teaching Award (MSSCM), Olin Business School:

2011, 2013, 2014, 2015, 2018, 2019 and 2020

Reid Teaching Award (MBA), Olin Business School:

2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013 and 2016

Reid Teaching Award (PMBA elective courses), Olin Business School:

May 2011, December 2011; Year 2021.

Faculty advisor of inaugural Boeing Center for Supply Chain Innovation (BCSCI) “Project of the Year,” Academic year 2016-17

Poets & Quants “Favorite Business School MBA Professors,” August 2016

First Place, American Statistical Association graduate data analysis competition, 1993

Fellowship for graduate studies abroad, CONACYT (Mexico’s NSF), 1992-97

Nuclear Sciences Institute Fellowship for graduate studies abroad, UNAM, 1989-92

Gabino Barreda Medal, Mathematics, UNAM, 1990

Mexico’s Best Students Award, Mathematics, bestowed by the President of Mexico, 1989

Honorable Mention, Physics B.S. dissertation defense, UNAM, 1989

Undergraduate Research Fellow, Nuclear Sciences Institute, UNAM, 1988-89

Service and Professional Activities

Director, Operations and Supply Chain Management MBA Platform, Olin Business School, September 2010–Present

Director, MS in Supply Chain Management program, Olin Business School, October 2009–Present

Served in University-level “Sunrise” Faculty Advisory Group, Washington University, 2022–Present

Served in Course Evaluations Committee, Olin Business School, 2011–13

Served in Specialized Masters, Academic Review and Teaching Development Committees, Olin Business School, 2009–Present

Served in Faculty Committee for the MBA Program, Olin Business School, 2014–Present

Served in MBA Core Committee, Olin Business School, 2005–Present

Served in Board of Directors, SearFood, 2018–Present Organized Spring 2006 and 2007 OMM Workshop and Brown-Bag Series, Olin Business School

Advisory Committee Member, *Meds & Food for Kids* Nonprofit Organization, Since Spring of 2006

Organized 2001 Workshop in Operations Management, The University of Chicago GSB

Addressed The University of Chicago GSB Mexico City Alumni Club, March 2001

Ad hoc Referee for *Management Science*, *International Journal of Production Economics*, *The Journal of Business*, *IIE Transactions*

Other

United States Citizen