

Amy David

Clinical Professor

Mitchell E. Daniels School of Business

Purdue University

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Education

Ph.D. Industrial Engineering and Operations Research, University of Illinois at Chicago, August 2014
Dissertation: Using Stochastic Programming and Game Theory for Supply Chain Optimization

MBA, Lake Forest Graduate School of Management, 2008
Graduate with High Honors

B.S. General Engineering, University of Illinois at Urbana, 2003
Concentration in Operations Research

Awards

Teaching Innovation Award, Council of Supply Chain Management Professionals Academic Research Symposium, awarded September, 2022

Finalist (with A. Iyer, A. Feng, M. Lanham, and M. Tawarmalani), UPS George D. Smith Prize, April 2022

Poets & Quants Top 50 Undergraduate Business Professors of 2020

Krannert Alumni Teaching Excellence Award, awarded May, 2020
\$12,5000

Krannert Dean's Award for Service, awarded January, 2020

Krannert Summer Innovation Teaching Award, awarded May, 2018
\$5,000

USG Supply Chain Research Grant, awarded January, 2013
\$42,818

UIC University Fellowship, awarded August, 2010
\$40,000 + tuition waiver for 2010-2011 and 2013-2014 academic years

Teaching Experience

Krannert School of Management

Clinical Professor, 2023 - Present

Clinical Associate Professor, 2020 - 2023

Clinical Assistant Professor, 2014 - 2020

Project Management - Hybrid Online/On-Campus Format (Elective class for weekend MBA students)

Spring 2017, Spring 2018, Spring 2019, Spring 2020, Spring 2021, Spring 2022, Spring 2023

Sole instructor: developed and delivered all course materials for approximately 40 students

Project Management - Online Format (Elective class for online management students)

Spring 2021, Fall 2022, Spring 2022, Spring 2023, Fall 2023

Sole instructor: developed and delivered all course materials for approximately 70 students

Global Supply Chain Management (Core Class for MS Global Supply Chain Management students)

Fall 2014, Fall 2015, Fall 2016, Fall 2017, Fall 2018, Fall 2019, Fall 2020, Fall 2021, Fall 2022, Fall 2023

Sole instructor: developed and delivered all course materials for approximately 65 students

Global Supply Chain Management - Online Format (Core Class for online MS Global Supply Chain Management students)

Spring 2022, Spring 2023

Sole instructor: developed and delivered all course materials for approximately 45 students

Manufacturing Planning and Control (Elective class for graduate management students)

Fall 2014, Fall 2015, Fall 2016, Fall 2017, Fall 2018, Fall 2019, Spring 2020, Fall 2020, Fall 2021, Fall 2022, Fall 2023

Sole instructor: developed and delivered all course materials for approximately 40 students

Experiential Learning in Operations Management (Core Class for MS Global Supply Chain Management Students)

Fall 2014, Summer 2015, Fall 2015, Summer 2016, Fall 2016, Summer 2017, Fall 2017, Summer 2018, Fall 2018, Summer 2019, Fall 2019, Summer 2020, Fall 2020, Summer 2021, Fall 2021, Summer 2022, Fall 2022, Summer 2023, Fall 2023

Sole instructor: obtained projects from corporate partners, advised student project teams, ensured quality of deliverables

Introduction to Supply Chain, Information, and Analytics (Elective class for undergraduate management students)

Fall 2016, Fall 2017, Fall 2018, Fall 2019, Spring 2021, Spring 2022, Spring 2023

Sole instructor: developed and delivered all course materials for approximately 35 students

Fall 2014, Spring 2015, Fall 2015

Co-instructor: developed and delivered course materials for supply chain and analytics modules

Project Management (Elective class for graduate management students)

Spring 2015, Fall 2015, Spring 2016, Fall 2016, Spring 2016, Spring 2017, Spring 2018, Spring 2019, Spring 2020

Sole instructor: developed and delivered all course materials for approximately 40 students

Advanced Manufacturing Planning and Control (Elective class for undergraduate management students)

Fall 2014, Fall 2015

Sole instructor: developed and delivered all course materials for approximately 40 students

Business Opportunity Program Boot Camp (summer program for Business Opportunity Program Students)

Summer 2022, Summer 2023

Lecturer: developed and delivered workshop for approximately 50 students

Empowering Women in Business Retreat (summer program for high school students)

Summer 2018, Summer 2019, Summer 2020, Summer 2021, Summer 2022

Lecturer: developed and delivered half day of course material for approximately 50 students

Applied Leadership Principles - Experiential Learning Course (IMM Global Executive MBA Course)

Summer 2019

Co-instructor: served as project management and consulting tools subject matter expert

Applied Leadership Principles - Experiential Learning Course (Krannert Executive MBA Course)

Fall 2017, Fall 2018, Fall 2019, Fall 2020

Project advisor: served as advisor for student teams completing corporate projects

Management Consulting - Experiential Learning Course (Krannert Online MBA Course)

Spring 2022

Project advisor: served as advisor for student team completing corporate project

Applied Management Principles (Krannert Executive Education Program)

Spring 2016

Lecturer: developed and delivered two days' worth of course material for approximately 75 students

Industrial Design Seminar (Course for Industrial Design Students)

February 2022

Guest Lecturer

Wellness Wednesday (Purdue LGBTQ Center Program)

November 2019, March 2021

Guest Workshop Leader

Management 1000 (Course for all incoming Krannert Students)

October 2018

Guest Lecturer

DePaul University Driehaus College of Business

Adjunct Instructor

Operations Management (Core class for MBA students)

Winter 2014

Sole instructor: developed and delivered all course materials for approximately 25 students

Management and Measurement of Quality (Core class for undergraduate Management students)

Autumn 2013

Sole instructor: developed and delivered all course materials for approximately 25 students

Principles of Operations Management (Core class for all undergraduate Business students)

Winter 2012, Spring 2012, Autumn 2012, Winter 2013, Summer I 2013, Summer II 2013, Winter 2014

Sole instructor: developed and delivered all course materials for average of 40 students

University of Illinois at Chicago

Teaching Assistant

Introduction to Operations Research (Core class for Industrial Engineering students)

Fall 2012

Assisted primary instructor: developed homework assignments, conducted review sessions, and worked individually with approximately 45 students

Statistics and Probability for Engineers (Core class for Industrial Engineering students)

Fall 2011, Spring 2012

Assisted primary instructor: developed homework assignments, conducted review sessions, and worked individually with average of 50 students

Industry Experience

USG Corporation

Project Arrow Business Consultant (as Amy David, Inc.), 2012

- Developed functional requirements, test plans, and process documentation for new distribution planning software

- Managed software defect process throughout QA and UAT cycles

Logistics Planning and Process Development Manager, 2007 - 2011

- Managed Oracle Demantra implementation resulting in 900K annual savings through improved sales and operations planning process

- Created technology roadmap to document long-term vision for demand, inventory, supply, and distribution planning teams

- Used lean principles to re-engineer distribution planning processes for three distinct product lines, resulting in a 15% reduction in planning cycle times

Supply Chain Services Manager, 2006 - 2007

- Trained and supported plant personnel on Oracle Advanced Supply Chain Planning software and processes

- Designed, tested, documented, and implemented patches, upgrades, and custom RICE items

- Maintained MRP input parameters to ensure accurate planning output

Medline Industries

Logistics Analyst, 2003 - 2006

- Managed staff of analysts to achieve departmental project goals

- Developed database programs that maintain MRP parameters in SAP to reflect business conditions for twenty-seven distinct product lines

- Improved forecasting methods using SAP Advanced Planning and Optimization to reduce inventory investment and improve customer service

Engineering Intern, Summer 2002

- Worked with engineering staff to reduce assembly line changeover time between production runs from 15 to 5 minute average

- Implemented new quality control processes to reduce number of missing component defects in sterile procedure trays

Peer Reviewed Publications

David, Amy. "Management Students Create Art: A Novel Approach to Introducing Supply Chain Ethics." *Decision Sciences Journal of Innovative Education* (in press).

David, Amy and Coats, Victoria. "The Underrepresentation of People of Color in Business School Teaching Cases." *Susan Bulkely Butler Center for Leadership Excellence and ADVANCE Purdue Center for Faculty Success Working Paper Series* (2021).

David, Amy, Amanda S. Mayes, and Elizabeth C. Coppola. "The Effect of Live Theatre on Business Ethics." *Humanistic Management Journal* (2020).

David, Amy and Adida, Elodie. "Competition and Coordination in a Two-Channel Supply Chain." *Production and Operations Management* (2015).

David, Amy et al. "USG Uses Stochastic Optimization to Lower Distribution Costs." *Interfaces* (2015).

Other Publications

David, Amy. "Managing Risk for League Events." *Five on Five Issue 32* (Summer, 2016): 10-11.

Book: Diwekar, Urmila and David, Amy. *BONUS Algorithm for Large Scale Real World SNLP Problems*. New York, NY: Springer Briefs; 2015.

David, Amy. "Planning Process Particulars." *APICS Magazine* Vol. 17, No. 1 (January, 2007): 24 - 27.

Presentations

David, Amy. "Visual Art by Management Students: A Novel Approach to Introducing Supply Chain Ethics." *INFORMS Annual Meeting*, October 2022, Indianapolis, IN.

David, Amy. "Visual Art by Management Students: A Novel Approach to Introducing Supply Chain Ethics." *CSCMP Academic Research Symposium*, September 2022, Nashville, TN.

David, Amy and Pincheira, Lilia. "Bringing Diversity, Equity, and Inclusion into the Operations Management Classroom." *POMS 32nd Annual Conference*, April 2022, online.

David, Amy and Rush Leeker, Jessica. "Tidying Up: Marie Kondo, Greenwashing, and Truly Sustainable Supply Chains." *Krannert Alumni Conference*, April 2019, West Lafayette, IN.

Pruim, Douglas and David, Amy. "Masterpiece: Playfully Improv(ing) Case Study Presentations." *National Communication Association Annual Convention*, November 2018, Salt Lake City, UT.

David, Amy. "Game Theory: The Key to Politics or Overhyped Meme?" *Purdue Women in Leadership Institute*, March 2017, West Lafayette, IN.

David, Amy. "The Forgotten Risk: Managing Demand-Side Uncertainty." *ISCEA Supply Chain Technology Conference and EXPO*, July 2016, Chicago, IL.

David, Amy and Adida, Elodie. "Competition and Coordination in a Two-Channel Supply Chain." *POMS Annual Conference*, May 2014, Atlanta, GA.

David, Amy and Diwekar, Urmila. "Network Optimization Under Uncertainty: A Case Study." *AICHE Annual Meeting*, November 2013, San Francisco, CA.

David, Amy and Diwekar, Urmila. "Network Optimization Under Uncertainty: A Case Study." INFORMS Annual Meeting, October 2013, Minneapolis, MN

David, Amy and Adida, Elodie. "Competition and Coordination in a Two-Channel Supply Chain." INFORMS Annual Meeting, October 2013, Minneapolis, MN

David, Amy and Adida, Elodie. "Competition and Coordination in a Two-Channel Supply Chain." INFORMS Annual Meeting, November 2012, Phoenix, AZ.

David, Amy. "Maximizing the Value of Your S&OP Process." Oracle Application User Group Demantra SIG Annual Meeting, October 2009, San Francisco, CA.

David, Amy. "Value Chain Planning in Uncertain Times." Oracle OpenWorld, October 2009, San Francisco, CA.

David, Amy and Januszyk, Ross. "Demantra Demand Management Implementation at USG." North Central Oracle Application User Group Training Day, August 2009, Oakbrook, IL.

David, Amy and Geilen, Frank. "Advanced Supply Chain Planning." Oracle OpenWorld, September 2008, San Francisco, CA.

David, Amy and Januszyk, Ross. "Advanced Planning Implementation at USG." APICS International Conference and Expo, October 2007, Denver, CO.

Panel Appearances

"Elevating Supply Chain Talent," Kinnexions, June 2023, Nashville, TN

"Jam Session: Supply Chain Talent," Kinnexions, June 2023, Nashville, TN

"Faculty using reflective practice to reveal the hidden curriculum in business education and to make way for alternative worldviews," Research in Management Learning and Education (Un)conference, June 2023, Banff, AB

"Faculty Perspectives," Daniels School of Business Experiential Learning Workshop, January 2023.

"Transforming Education through Innovation," Krannert School of Management Faculty Roundtable, May 11 2022 (online).

"Bringing Art into the Supply Chain Classroom," Krannert Undergraduate Teaching Symposium, May 2020.

"Managing Supply and Demand Disruption." Council of Supply Chain Management Professionals EDGE Conference, September 2021, Atlanta, GA.

"Developing an Experiential Learning Course for Undergraduates," Krannert Undergraduate Teaching Symposium, May 2020.

Media Appearances

"Butler Winery founder: wine bottle costs up 35% Since Start of 2022," *Indiana Public Media*, June 23 2022.

"The Complete Guide to Project Debriefs," *Smartsheet*, June 23 2022.

"Purdue professor weighs in on baby formula shortage," *Associated Press Campus Insights Series*, appeared in 100 news outlets including *WSPA, Fox59 WXIN, KARK, CBS 17, KSNT, and KTLA*, June 8 2022.

"U.S.'s Baby-Formula Shortage Further Snarled, This Time by the Ukraine War," *Wall Street Journal*, May 27 2022.

"Baby Formula Shortage Explained," *Storyful*, May 23 2022.

"Infant Formula Shortage," *Associated Press Campus Insights Series*, appeared in 16 news outlets including *Jacksonville Journal Courier, Times of India, WANE, and Daily Advent*, May 15, 2022.

"Supply Chain Education: Cramming for Success," *Inbound Logistics*, 28 February 2022.

"Higher Wages Aren't Enough to Solve Labor Shortage," *Supply Chain Brain*, 14 January 2022.

"New York Fed Index Looks at Pandemic's Effect on the Global Supply Chain," *Marketplace, American Public Media*, 4 January 2022.

"How Prescriptive Analytics Helps You Manage Your Logistics Better," *FreightPOP*, 23 August 2021.

"Challenges to the Supply Chain," *InfoTrak, Talkzone Radio*, 26 April 2020.

"Purdue Professor Makes Debut on Jeopardy," *WFLI 18*, 4 December 2018.

Student Mentorship

Faculty Mentor for GSCM students completing summer internships, 4 in 2016, 4 in 2017, 7 in 2018, 5 in 2019, 12 in 2020, 12 in 2021, 10 in 2022, 49 in 2023

Faculty Mentor/Lead Consultant overseeing 4 student consultants, Krenecki Center Consulting Project (Eli Lilly), 2020

Faculty Mentor for two undergraduate research assistants (see publications section), 2019 - 2022

Faculty Coach for National Undergraduate Supply Chain Case Competition, 2016, 2017, 2018, 2020, 2021, 2022 (student team awarded honorable mention)

Faculty Coach for Council of Supply Chain Management Professionals Chicago Roundtable Case Competition 2021 (student team awarded 1st place), 2022 (student team awarded second place)

Faculty Organizer, Connexus on Location, 2016, 2017

Case Competition Judge

SaaS Optimization Challenge, 2023

PowerShift Case Competition, 2021, 2023

Data For Good, 2022

Deloitte Case Competition, 2017

Krannert Graduate Student Association, 2016, 2018

STAMINA case competition, 2016, 2017

Service

Service to Krannert

Academic Director, Master of Science in Global Supply Chain, 2016 - Present
Academic Director, Online Master of Science in Global Supply Chain, 2020 - Present
Member, Krannert DEI Curriculum Committee, 2021 - Present
Member, Clinical Faculty Review Committee, 2023
Member, Professor of Practice Committee, 2023
Member, Experiential Learning, 2023 - Present
Chair, Krannert Specialty Master's Committee, 2018 - Present
Faculty Chair, Management Solutions Challenge, 2018 - 2022
Member, Krannert Grade Appeals Committee, 2018 - 2020, 2021 - Present
Faculty Advisor, Consult Your Community, 2018 - Present
Faculty Affiliate, Brock-Wilson Center for Women in Management, 2017 - Present
Faculty Advisor, Krannert Operations Club, 2014 - Present
Faculty Advisor, Operations and Supply Chain Organization, 2014 - 2023
Member, Krannert Online Working Group, 2016 - 2020
Member, Department Head Search Advisory Committee, 2022
Member, Search Committee, Clinical Associate Professor of Managerial Communications, 2018
Member, Search Committee, Continuous Term Lecturer of Operations Management, 2017
Faculty Representative in Recruiting Activities
Purdue's for Me, 2022
Supply Chain Management Major Information Night, 2021, 2022
Krannert Ignite Weekend, 2017, 2020, 2021
Supply Chain Management Major Video/Web Content, 2020
Explore Krannert Diversity Days, 2017, 2018, 2019
Faculty Representative in Staff Search
KPDC Associate Director for Global Employment, 2022
Data Analyst, 2022
Associate Dean for Undergraduate Programs, 2022
Director of Krannert Partnerships Office, 2021
Department Head Executive Assistant, 2021
Director of Krannert Professional Development Center, 2022
Assistant Director of Online Learning, 2018
Associate Director of Program Management, 2016
Director of Master's Programs, 2015

Service to Purdue

Faculty Coordinator, SAP University Alliance, 2021 - Present
Faculty Fellow, University Residences, 2017 - 2023
Member, Office of Institutional Equity Advisory Committee, 2016 - Present
Faculty Advisor, Phi Mu, Delta Epsilon Chapter, 2017 - 2020
Faculty Mentor, Boiler Gold Rush, 2015, 2017
Co-chair, Purdue Faculty Association, 2015-2016

External Service

Council of Supply Chain Management Professionals Chicago Roundtable Case Competition Committee, 2020 - Present
Undergraduate Consortium (formerly Aspen Institute for Responsible Capitalism Undergraduate Consortium) Organizing Committee, 2021 - Present
Peer Reviewer
Annals of Operations Research, May 2013
Decision Sciences Journal of Innovative Education, October 2017, March 2018, April 2019, January 2020, November 2021, March 2022, March 2023, June 2023, December 2023
European Journal of Operations Management, November, 2020
The Case Journal, August 2021, February 2022
IISE Transactions, December 2017, May 2018
Infomatics, March 2022
Naval Research Logistics, May 2016, February 2018, May 2018
Omega: The International Journal of Management Science, October 2017, January 2018
Stats, October 2021
Susan Bulkely Butler Center for Leadership Excellence and ADVANCE Purdue Center for Faculty Success Working Paper Series, January 2022
Sustainability, June 2017, March 2020
Transportation and Logistics, June 2016
Transportation Research Part E: Logistics and Transportation Review, August 2017, August 2021, June 2022

Certifications

ERPSim Certified Level 2 Instructor, August 2020 (Level 1 Instructor since June 2016)
QPR Suicide Prevention Gatekeeper, February 2016
APICS Certified in Production and Inventory Management, August 2004

Other Professional Development

SAP University Alliance Artificial Intelligence Training, Summer 2022

Aspen Institute for Responsible Capitalism Undergraduate Consortium, Summer 2021, Summer 2022

Purdue LGBTQ Center Safe Zone Training, January 2020

Purdue CILMAR: Understanding and Using the Intercultural Effectiveness Scale, December 2019

SAP University Alliance Blockchain Training, Summer 2019