

Amy David

Clinical Assistant Professor of Management
Krannert School of Management
Purdue University
403 W. State St.
West Lafayette, IN 47907

Phone: (765) 496-6526
Email: amydavid@purdue.edu

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

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

Krannert School of Management

Clinical Assistant Professor

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

Project Management - Hybrid Online/On-Campus Format (Elective class for weekend MBA students)
Spring 2017, Spring 2018, Spring 2019, Spring 2020
Sole instructor: developed and delivered all course materials for approximately 40 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
Sole instructor: developed and delivered all course materials for approximately 65 students

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

Fall 2014, Fall 2015, Fall 2016, Fall 2017, Fall 2018, Fall 2019, Fall 2020

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

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

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

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

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

Miscellaneous Lectures, Workshops, etc.

Empowering Women in Business Retreat (Krannert summer program for high school students)
Summer 2018, Summer 2019, Summer 2020
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

Applied Management Principles (Krannert Executive Education Program)
Spring 2016
Lecturer: developed and delivered two days worth of course material for approximately 75 students

Industry Experience

USG Corporation

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

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

Managed software defect process throughout QA and UAT cycles

2007 - 2011 Logistics Planning and Process Development Manager

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

2006 - 2007 Supply Chain Services Manager

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

2003 - 2006 Logistics Analyst

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

Summer 2002 Engineering Intern

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

Academic Publications and Presentations

Publications

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

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

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).

Papers Under Review

David, Amy, and Coats, Victoria. "The Underrepresentation of People of Color in Business School Teaching Cases."

Presentations

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 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.

Industry Publications and Presentations

Publications

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

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

Presentations

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. "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.

Service

Service to Purdue

Chair, Krannert Specialty Masters Committee, 2018 - Present

Faculty Affiliate, Brock-Wilson Center for Women in Management, 2017 - Present

Member, Krannert Online Working Group, 2016 - Present

Member, Office of Institutional Equity Advisory Committee, 2016 - Present

Faculty Advisor, Krannert Operations Club, 2014 - Present

Faculty Advisor, Operations and Supply Chain Organization, 2014 - Present

Faculty Fellow, Hawkins Hall, 2017 - Present

Faculty Advisor, Consult Your Community, 2018 - Present

Faculty Advisor, Phi Mu, Delta Epsilon Chapter, 2017 - Present

Faculty Mentor, Boiler Gold Rush, 2016 - 2018

External Service

Editorial Advisory Board, *Management Decision*, April 2014 - Present

Reviewer, *IIE Transactions*, December 2017

Reviewer, *Omega: The International Journal of Management Science*, October 2017

Reviewer, *Decision Sciences Journal of Innovative Education*, October 2017, March 2018, April 2019

Reviewer, *Transportation Research Part E: Logistics and Transportation Review*, August 2017

Reviewer, *Sustainability*, June 2017

Reviewer, *Transportation and Logistics*, June 2016

Reviewer, *Naval Research Logistics*, May 2016, February 2018, May 2018

Reviewer, *Annals of Operations Research*, May 2013

Certifications

ERPSim Certified Level 2 Instructor, August 2020 (Level 1 Instructor since June 2016)

APICS Certified in Production and Inventory Management, August 2004