

# Amy David

Clinical Assistant Professor of Management  
Krannert School of Management  
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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

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 Assistant Professor

**Project Management** (Elective class for graduate Business students)  
Spring 2015, Fall 2015

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

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

Fall 2014, Spring 2015, Fall 2015

Co-instructor: developed and delivered all course materials for approximately 20 students for Analytics and Supply Chain portions of class

**Advanced Manufacturing Planning and Control** (Elective class for undergraduate Business students)  
Fall 2014, Fall 2015

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

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

**Manufacturing Planning and Control** (Elective class for graduate Business students)

Fall 2014, Fall 2015

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

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

*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**

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

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).

### *Presentations*

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

### *Presentations*

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.

## Other

Editorial Advisory Board, Management Decision, April 2014 - Present

Reviewer, Annals of Operations Research, May 2013

Member, AIChE, August 2013 - Present

Member, INFORMS, August 2010 - Present

APICS Certified in Production and Inventory Management, August 2004