

RICHARD KRAUDE

Doctoral Candidate
Department of Supply Chain Management
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RESEARCH AND TEACHING INTERESTS

I am an ambitious scholar in the area of operations and supply chain management pursuing my Ph.D. at Michigan State University. During my education, I have developed a strong foundation of research in the areas of sustainability, new product development, and risk management. I am driven by the desire to participate in the advancement of theory and practice in our field with specific emphasis on empirical research. My teaching philosophy centers on empowering the student to learn through participatory learning. My teaching interests are in the areas of operations management, supply chain management, procurement, business analytics, and innovation.

EDUCATION

Anticipated 2017	Doctor of Philosophy Michigan State University, Eli Broad College of Business Major: Operations and Sourcing Management Minor: Organizational Behavior Dissertation: <i>Mitigating Risk in Physical and New Product Supply Chains</i> Advisors: Srinivas Talluri Sriram Narayanan
2008	Master of Science University of Oregon Major: Chemistry
2007	Bachelor of Science University of Montana Major: Chemistry, Honors; Minor: Mathematics

RESEARCH

Published & under review:

Jacobs, B. W., **R. Kraude**, S. Narayanan. "Operational productivity, corporate social performance, financial performance, and Risk in manufacturing firms"
(*forthcoming at Production & Operations Management Journal*)

Kraude, R., S. Talluri, S. Narayanan, T. Hult. "Mitigating New Product Development Risk through Alliances" (*under review at M&SOM*)

Working papers:

- Kraude, R., R. Narasimhan. “The Role of Innovation and Vertical Integration in Advancing Environmental Performance”
- Kraude, R., S. Narayanan, S. Talluri. “Risk and Cost Tradeoffs in Managing Supply Chain Disruptions: The Role of Alternative Mitigation Strategies”
- Kraude, R., T. Srinivas, S. Narayanan. “Dispersed Losses Across Collaboration Partners for Product Development Discontinuations: An Event Study”

PRESENTATIONS

- Kraude, R., Jacobs, B., & Narayanan, S. (2016). Moderating Effect of Information Technologies on Risk Mitigation. 27th annual meeting of the Production and Operations Management Society: Orlando, FL. Invited Session (Host)
- Kraude, R., & Narasimhan, R. (2015). Mitigating Risk in the New Product Development Process: Evidence from the Pharmaceutical Industry. 46th annual meeting of the decision science Institute: Seattle, WA
- Kraude, R., Talluri, S., & Narayanan, S. (2015). The Tradeoff Between Supply Chain Disruptions and Mitigation Costs. 26th annual meeting of the Production and Operations Management Society: Washington D.C, MD. Invited Session
- Kraude, R., Jacobs, B., & Narayanan, S. (2015). The Relationship Between Sustainability, Productivity, and Performance. 26th annual meeting of the Production and Operations Management Society: Washington D.C, MD. Invited Session
- Kraude, R., & Narasimhan, R. (2014). Advancing Environmental Performance: The Role of Vertical Integration. 45th annual meeting of the decision science Institute: Tampa, FL.
- Melnyk, S.A., Ni, John Z., Ritchie, William J., & Kraude, R. (2014). Why Adopt A Standard Early When There Are No Economic Benefits? The Case of Early Adopters and Voluntary State-Authorized Standards. 45th annual meeting of the decision science Institute: Tampa, FL.
- Kraude, R., Jacobs, B., & Narayanan, S. (2014). Dexterity in Operations Efficiency and Social Responsibility: Effects on Financial Performance. 25th annual meeting of the Production and Operations Management Society: Atlanta, GA
- Kraude, R., & Narasimhan, R. (2014). Advancing Environmental Performance: The Role of Vertical Integration. 25th annual meeting of the Production and Operations Management Society: Atlanta, GA.
- Kraude, R., Jacobs, B., & Narayanan, S. (2013). The Relationship Between Efficiencies in Operations and Corporate Social Responsibility. 44th annual meeting of the decision science Institute: Baltimore, MD.

**Presenting author listed first*

TECHNICAL SKILLS

Advanced

- Stata, Excel, VisualBasic

Proficient

- R, Matlab, Mplus, C++, Python, Ucinet, SPSS, SAS

TEACHING EXPERIENCE

Instructor at *Michigan State University*

- SCM 372 – Manufacturing, Planning & Control
Audience: Junior and Senior Undergraduates, Supply Chain Specialization
Rating (N): Spring 2014, 3.93 (40)
- SCM 470 – Supply Chain Application and Policy
Audience: Senior Undergraduates, Supply Chain Specialization
Rating (N): Summer 2014, 4.58 (20)
Spring 2015, 4.40 (39)
- SCM 371 – Procurement and Supply Management
Audience: Junior and Senior Undergraduates, Supply Chain Specialization
Rating (N): Spring 2016, 3.79 (46)

Teaching Assistant at *Michigan State University*

- SCM 303– Intro to Supply Chain Management
Audience: Sophomore and Junior Undergraduates
Rating (N): Fall 2012, N/A (849 – two sections)
Spring 2013, N/A (394)

Teaching Assistant at *University of Montana*

- CHYM 124– Intro to Organic and Biochemistry Lab
Audience: Freshman Undergraduates

SERVICE

2015-Present - Ad Hoc Reviewer for *IEEE*

2013-2015 - Founding member of the Academy of Future Business Researchers (AFBR), a Graduate student organization at Michigan State University

INDUSTRY EXPERIENCE

Chemist (*Willamette Valley Company*)

2008-2012

ISO 9000 compliant multi-national coatings, fillers, adhesives, and customized robotic equipment manufacturer.

- Formulated high performance polyurethanes/polyureas/epoxies for cast, adhesive, sealants, elastomer (CASE) applications and characterized their properties using various analytical instrumentation
- Developed 5 new products for the Spikefast® and POLYQuik® product lines with sales over \$1 million and continuing to grow
- Improved current formulations and processes that have reduced raw material cost by as much as 40% and manufacturing time by as much as 50%
- Supported sales staff through training, troubleshooting, and optimizing formulations based on customers' needs
- Transfer technology to production by scale-up and process optimization involving order of addition and mixing dynamics

Research Assistant (University of Montana - Edward Rosenberg Ph.D.) 2006 – 2007
Edward Rosenberg is an inorganic chemist with a strong interest in organometallic compounds with biological activity.

- Optimized the arsenic loading capacity and antimicrobial properties of our composite material CPQA by increasing coordination of amine groups for use in recreational water filters

Laboratory Technician (University of Montana - Stephen Black Ph.D.) 2005 – 2006
Research in the Black Laboratory focuses on the roles of reactive oxygen species (ROS) in cell signaling and how derangements in ROS generation underlie many pathologic states.

- Purified several different proteins from E. coli to be used by other members of our research team

Intern (*DAAD-RISE at IFOK Rostock, Germany*) 2005
DAAD's RISE program coordinates German research institutions with North American students.

- Refined rapeseed oil by hydroformylation reactions to be used as a vegetable oil and diesel fuel replacement

Intern (National Institute of Health) 2004
NIH is located at Rocky Mountain Laboratory and focuses on biomedical research.

- Produced antibodies (anti-Trp A and anti-Trp B) for detection of persistent forms of Chlamydia in vivo

PROFESSIONAL ORGANIZATIONS & COMMUNITY INVOLVEMENT

- American Production and Inventory Control Society (APICS) since 2012
- Member of Decision Science Institute (DSI) since 2013.
- The Institute of Operations Research and Management Science (INFORMS)
- Institute of Supply Management (ISM) since 2012
- Member of Production and Operations management Society (POMS) since 2013
- Member of Academy of Management Society (AOM) since 2015

AWARDS

- Graduate Office Fellowship 2012 – 2016
- Awarded CIBER grant in 2015 & 2016
- Doctoral Fellowship (Full Tuition and Stipend) 2012-2017
- AOM 2015 Junior Faculty and Doctoral Consortium-OM Division, Attendee
- POMS 2015 Doctoral Consortium, Attendee
- Awarded the Outstanding Senior Award in the spring of 2007
- Awarded the "Chemistry Department Memorial Scholarship" in the spring of 2006

REFERENCES

Srinivas Talluri

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