

## Jie Ning

---

|                     |   |
|---------------------|---|
| CONTACT INFORMATION | Department of Operations, Weatherhead School of Management<br>Case Western Reserve University<br>11119 Bellflower Road, Cleveland, OH 44106-7235<br><i>Phone:</i> (216) 368-3841<br><i>E-mail:</i> jie.ning@case.edu  |
| EMPLOYMENT          | Associate Professor (2020 – )<br>Assistant Professor (2013 – 2020)<br>Department of Operations, Weatherhead School of Management<br>Case Western Reserve University   |
| EDUCATION           | Ph.D. in Industrial & Operations Engineering, 2013<br>University of Michigan, Ann Arbor<br><br>M.S. in Physics, 2008<br>University of Michigan, Ann Arbor<br><br>B.S. in Physics, 2006<br>University of Science and Technology of China   |
| RESEARCH INTERESTS  | Interfaces of Operations, Finance, and Risk Management (iFORM); Markov decision processes and applications; business analytics (combination of analytical and empirical research); supply chain management.   |
| PUBLICATIONS        | <b>Papers in Academic Journals</b> <ul style="list-style-type: none"><li>• <b>J. Ning</b> (2021), “Reducible Markov decision processes and stochastic games.” Forthcoming, <i>Production and Operations Management</i>.</li><li>• D. Solow, <b>J. Ning</b>, J. Zhu, Y. Cai (2020), “Effective heuristics for finding balanced teams”. <i>IIE Transactions</i> (formerly known as <i>IIE Transactions</i>), 52(12), 1312–1323.</li><li>• <b>J. Ning</b>, M. J. Sobel (2019), “Easy affine Markov decision processes.” <i>Operations Research</i>, 67(6), 1719–1737.</li><li>• <b>J. Ning</b>, V. Babich, J. Handley, J. Keppo (2018), “Risk-aversion and B2B contracting under asymmetric information: evidence from managed print services”. <i>Operations Research</i>, 66(2), 392–408.</li><li>• <b>J. Ning</b>, V. Babich (2018), “R&amp;D investments in the presence of knowledge spillover and debt financing: can risk-shifting cure free-riding?”. <i>Manufacturing &amp; Service Operations Management</i>, 20(1), 97–112.</li><li>• <b>J. Ning</b>, M. J. Sobel (2018), “Production and capacity management with internal financing”. <i>Manufacturing &amp; Service Operations Management</i>, 20(1), 147–160.</li></ul> <b>Refereed Book Chapters</b> <ul style="list-style-type: none"><li>• <b>J. Ning</b> (2017), “Easy affine Markov decision processes: Properties and applications”. In <i>Tutorials in Operations Research</i>, 2017 volume: <i>Leading Developments from INFORMS Communities</i>, 28–47. INFORMS.</li></ul> |

- **J. Ning** (2017), “Production, capacity, and liquidity of a self-financed firm”, *Foundations and Trends in Technology, Information, and Operations Management*, 10(3-4), 372-387.

WORK IN  
PROGRESS

**Manuscripts under Review/Revision**

- **J. Ning**, “Strategic trade credit in a supply chain with buyer competition.” Under review at *Manufacturing & Service Operations Management*.

PATENT

J. Handley, **J. Ning**, J. Reitz, “System and Method to Detect Printing Devices with High Incident Rates”, 2011, US 20120209565.

HONORS AND  
AWARDS

**Case Western Reserve University.**

- Nominated for Weatherhead School of Management Undergraduate Teaching Excellence Award (2017, 2019).

**University of Michigan, Ann Arbor.**

- Nominated for the Future Academician Colloquium, 2012.
- Katta Murty Prize for the Best Research Paper on Optimization, 2012.
- Wilson Prize for the Best Research Paper in Manufacturing, 2012.
- IOE Departmental Fellowship, 2008–2009.
- Rackham Conference Travel Grant Award, 2008 – 2012.
- Physics Departmental Fellowship, 2006–2007.

**University of Science and Technology of China.**

- Outstanding Student Scholarship, 2003 – 2006.

SEMINARS AND  
PRESENTATIONS

**Research Seminars**

- “Easy affine Markov decision processes”, Weatherhead School of Management, Case Western Reserve University, Sept. 2017.
- “Production, capacity, and liquidity of a self-financed firm”, Weatherhead School of Management, Case Western Reserve University, April 2015.

**Conference Presentations**

- “Trade credit, risk shifting, and buyer competition”, INFORMS 2019 Annual Conference, Seattle, WA.
- “Easy Decomposable Markov Decision Processes”, INFORMS 2018 Annual Conference, Phoenix, AZ (Invited).
- “Risk-aversion and B2B contracting under asymmetric information: evidence from managed print services”, INFORMS 2018 Annual Conference, Phoenix, AZ (Invited).
- “Risk-aversion and B2B contracting under asymmetric information: evidence from managed print services”, Supply Chain Finance & Risk Management Workshop, St. Louis, MO, 2018 (Attendance by invitation only)
- “Production and capacity management with internal financing”, Supply Chain Finance & Risk Management Workshop, St. Louis, MO, 2017 (Attendance by invitation only)

- “R&D investments in the presence of knowledge spillover and debt financing: can risk-shifting be a cure for free-riding in equilibrium?”, INFORMS 2016 Annual Conference, Nashville, TN, 2016 (Invited).
- “Easy affine Markov decision processes: algorithms and applications”, INFORMS 2016 Annual Conference, Nashville, TN, 2016 (Invited)
- “Production, Capacity, and Liquidity of a Financially Constrained Firm”, Supply Chain Finance & Risk Management Workshop, St. Louis, MO, 2016 (Attendance by invitation only)
- “How Do Information Spillover and Debt Financing Affect Companies’ Innovation Decisions?”, INFORMS 2015 Annual Conference, Philadelphia, PA, 2015 (Invited).
- “Production, Capacity, and Liquidity of a Self-Financed Firm”, iFORM (interface of Finance, Operations and Risk Management) SIG (Special Interest Group) MSOM 2015 Annual Conference, Toronto, Canada, 2015 (Competitive selection).
- “Production, Capacity, and Liquidity of a Self-Financed Firm”, POMS 2015 Annual Conference, Washington DC, 2015 (Invited).
- “Risk-aversion and Contracting in Managed Print Services”, INFORMS (Institute for Operations Research and Management Sciences) 2014 Annual Conference, San Francisco, CA, 2014 (Invited).
- “Testing the Risk-Aversion Assumption of the Service Provider: An Empirical Study of Contracting in Managed Print Services under Asymmetric Information”, MSOM 2014 Annual Conference, Seattle, WA, 2014.
- “One Price, Different Profits: An Empirical Study on the Cost of Demand Risk Under Risk Pooling”, POMS 2014 Annual Conference, Atlanta, GA, 2014 (Invited).
- “Managed Print Service Pricing using a Linear Model for Customer Service Valuation”, INFORMS 2012 Annual Conference, Phoenix, AZ, 2012 (Invited).
- “Price Print Services Based on Customer’s Perceived Value: An Empirical Study”, MSOM 2012 Annual Conference, New York, NY, 2012.
- “Industrial Service Pricing Based on Customer Perceived Value: an Empirical Study”, INFORMS 2011 Annual Conference, Charlotte, NC, 2011.
- “Demand Risk Diversification in Outsourcing”, INFORMS 2010 Annual Conference, Austin, TX, 2010.
- “Pricing and managing risks in supply chain using marginal indifference pricing”, INFORMS 2009 Annual Conference, San Diego, CA, 2009.
- “Pricing and managing risks in global manufacturing enterprise”, NSF Engineering Research and Innovation Conference, Honolulu, HI, 2009.

#### TEACHING

Operations Research and Supply Chain Management: 2013–2016, Spring 2019 (Undergraduate core)  
 Operations Management, fall 2016–2018 (Graduate core)

SERVICE

**Professional**

- Session chair/co-chair at INFORMS annual conferences in 2016, 2017, 2019.
- Journal referee

*Management Science*

*Operations Research*

*Manufacturing & Service Operations Management*

*Production & Operations Management*

*Mathematics of Operations Research*

*Naval Research Logistics*

*Journal of Industrial and Management Optimization*

*Omega, The International Journal of Management Science*

**School and Department**

- Weatherhead curriculum committee, 2019 – present
- Weatherhead research committee, 2018.
- Weatherhead UGIS committee, 2016 – 2017.
- Departmental recruitment committee, 2014 – 2019
- Departmental seminar committee, 2015 – present
- Interdepartmental seminar organizer, 2015.

PROFESSIONAL  
MEMBERSHIPS

Institute for Operations Research and Management Sciences (INFORMS)

Manufacturing and Service Operations Management Society (MSOM)