

Jie Ning

CONTACT INFORMATION	Department of Operations, Weatherhead School of Management Case Western Reserve University 11119 Bellflower Road, Cleveland, OH 44106-7235 <i>Phone:</i> (216) 368-3841 <i>E-mail:</i> jie.ning@case.edu
EMPLOYMENT	Associate Professor (2020 –) Assistant Professor (2013 – 2020) Department of Operations, Weatherhead School of Management Case Western Reserve University
EDUCATION	Ph.D. in Industrial & Operations Engineering, 2013 University of Michigan, Ann Arbor M.S. in Physics, 2008 University of Michigan, Ann Arbor B.S. in Physics, 2006 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	Papers in Academic Journals <ul style="list-style-type: none">• J. Ning (2021), “Reducible Markov decision processes and stochastic games.” <i>Production and Operations Management</i>, 30(8), 2726-2751.• D. Solow, J. Ning, 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.• J. Ning, M. J. Sobel (2019), “Easy affine Markov decision processes.” <i>Operations Research</i>, 67(6), 1719–1737.• J. Ning, 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.• J. Ning, V. Babich (2018), “R&D investments in the presence of knowledge spillover and debt financing: can risk-shifting cure free-riding?”. <i>Manufacturing & Service Operations Management</i>, 20(1), 97–112.• J. Ning, M. J. Sobel (2018), “Production and capacity management with internal financing”. <i>Manufacturing & Service Operations Management</i>, 20(1), 147–160. Refereed Book Chapters <ul style="list-style-type: none">• J. Ning (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.

- **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 third-round review at *Manufacturing & Service Operations Management*.
- **J. Ning**, P. Ritchken, “Blockchain monitored debt and capital structure under moral hazard.” Under revision at *Management Science*.

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.

- Weatherhead Emerging Impact Award, 2021.
- Weatherhead Faculty Scholar, 2021.
- Lewis-Progressive Fellow, Weatherhead School of Management, 2020–2021.
- Nominated for Weatherhead School of Management Undergraduate Teaching Excellence Award (2017, 2019).

Research community.

- Meritorious Service Award at *Manufacturing & Service Operations Management*, 2020.

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)