

Jie Ning

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| 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.” Forthcoming, <i>Production and Operations Management</i>.• 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 second-round revision at *Manufacturing & Service Operations Management*.
- **J. Ning**, P. Ritchken, “Blockchain monitored debt and capital structure under moral hazard.” Under review 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)