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350 Wohlers Hall
1206 South Sixth Street
Champaign, IL 61820

POSITIONS HELD

University of Illinois at Urbana-Champaign

Department of Business Administration, Gies College of Business	
Associate Professor	August 2016 – present
Robert and Karen May Faculty Fellow	August 2018 – present
Assistant Professor	August 2008 – 2016

Northwestern University

Kellogg School of Management, Visiting Scholar	September 2018 – August 2019
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EDUCATION

PhD	UCLA Anderson School of Management, Los Angeles	2008
	Dissertation Advisor: Professor Steven A. Lippman	
PhD	Brown University, Providence, RI	1995
	Field of Study: Theoretical condensed matter physics	
BS	Korea Advanced Institute of Science & Technology	1991
	Physics, Magna Cum Laude	

RESEARCH AREAS

Decision Analysis: Real options; Bayesian sequential decisions.

Game Theory: Stochastic dynamic games; war of attrition; management of the commons

Technology Management: Competitive investment in technology adoption; R&D competition.

PUBLICATIONS

- Y. Kim, H.D. Kwon. 2022. Investment in the Common Good: Free Rider Effect and the Stability of Mixed Strategy Equilibria. (Forthcoming in *Operations Research*)
<https://ssrn.com/abstract=4012088>
- G. Georgiadis, Y. Kim, H.D. Kwon. 2022. The Absence of Attrition in a War of Attrition under Complete Information. *Games and Economic Behavior*, Volume 131, January 2022, 171-185.
<https://ssrn.com/abstract=3353450>
- H.D. Kwon, 2022. Game of Variable Contributions to the Common Good under Uncertainty. *Operations Research*, 70 (3) 1359–1370. <https://ssrn.com/abstract=3294393>
- H.D. Kwon, O.S. Yoo. 2017. Retention of Capable New Employees under Uncertainty: Impact of Strategic Interaction. *IIE Transactions*, 49 (10) 927-941. (Selected for Honorable Mention of Best Paper in the IIE Transactions Focus Issue on Operations Engineering and Analytics for 2018)
- A. Agrawal, Y. Kim, H.D. Kwon, S. Muthulingam. 2016. Investment in Shared Suppliers: Effect of Learning, Spillover, and Competition. *Production and Operations Management*, 25 (4) 736 - 750.
- H.D. Kwon, W. Xu, A. Agrawal, S. Muthulingam. 2016. Impact of Bayesian Learning and Externality on Strategic Investment. *Management Science*, 62 (2) 550 - 570.
- H.D. Kwon, H. Zhang. 2015. Game of Singular Stochastic Control and Strategic Exit. *Mathematics of Operations Research*, 40 (4) 869 - 887.
- H.D. Kwon. 2014. Preventing Rare Catastrophic Business Failures with Weak Forewarning Signals. *Probability in the Engineering and Informational Sciences*, 28 121-144.

- W. Cho, M.J. Shaw, H.D. Kwon. 2013. The effect of synergy enhancement on information technology portfolio selection. *Information Technology and Management*, 14 (2) 125-142.
- H.D. Kwon, S.A. Lippman, C.S. Tang, 2012. Optimal Markdown Pricing Strategy with Demand Learning. *Probability in the Engineering and Informational Sciences*, 26 (01) 77-104.
- H.D. Kwon, S.A. Lippman. 2011. Acquisition of Project-Specific Assets with Bayesian Updating. *Operations Research*, 59 (5) 1119-1130.
- H.D. Kwon, S.A. Lippman, C.S. Tang. 2011. Sourcing Decisions of Project Tasks with Exponential Completion Times: Impact on Operating Profits. *International Journal of Production Economics*, 134 (1) 138-150.
- H.D. Kwon. 2010. Invest or Exit? Optimal Decisions in the Face of a Declining Profit Stream. *Operations Research*, 58 (3) 638-649.
- H.D. Kwon, S.A. Lippman, K.F. McCardle, C.S. Tang. 2010. Project Management Contracts with Delayed Payments. *Manufacturing & Service Operations Management*, 12 (4) 692-707.
- H.D. Kwon, S.A. Lippman, C.S. Tang. 2010. Optimal Time-Based and Cost-Based Coordinated Project Contracts with Unobservable Work Rates. *International Journal of Production Economics*, 126 (2) 247-254.

WORKING PAPERS

- H.D. Kwon. J. Palczewski. 2023. Exit game with private information. (Major revision, *Mathematics of Operations Research*)
- H.D. Kwon. 2022. Competitive Harvesting of a Common Renewable Resource: An Impulse Control Game Approach (Major revision requested, *Operations Research*)
- H.D. Kwon, S.A. Lippman. 2017. Impact of Uncertainty on a Bayesian Sequential Replacement Problem. (Major revision, *Stochastic Systems*)

WORK IN PROGRESS

- H.D. Kwon. Efficient investment in the common good: correlated equilibrium of a stochastic impulse control game (Target: *Operations Research*)
- H.D. Kwon. Stochastic Exit Games under Market Share Competition. (Target: *Operations Research*)

TEACHING EXPERIENCE

University of Illinois at Urbana-Champaign

BADM 275 (<i>Intro Operations Management</i>)	2021-2023
BADM 573 (<i>Decision Analytics</i>)	2021, 2023
BADM 374 (Management Decision Models)	2019
BADM 590 EM (PhD course in Econ Modeling)	2018
MBA 501 (<i>Statistics for Decision Analytics</i>)	2010-2019
BADM 573 (<i>Decision Analytics</i>)	2009-2017
BADM 574 (<i>Simulation and Risk Analysis</i>)	2009-present
MBA 504/505 (<i>Decision Risk Analysis</i>)	2009-2010

University of California, Los Angeles

Teaching Assistant

High-Tech Management
Global Operations Strategy

2003–2007

*Decisions and Business Statistics
Business Strategy
Grader for Operations Management.*

University of Maryland, College Park 2001
Instructor of *General Physics* for engineering majors.

INVITED SEMINARS

Fuqua Research Seminar, Duke University	February 2020
Kellogg Research Seminar, Northwestern University	April 2019
Plenary Speaker, Workshop on Dynamic Models of Strategic Investment under Uncertainty, Bielefeld University, Germany	December 2018
George Washington University, Decision Sciences Research Seminar	December 2018
New York University, Tandon School of Engineering Seminar	December 2018
National University of Singapore, DAO Seminar	October 2018
University of Washington, Foster School of Business Seminar	February 2016
Purdue University, Krannert School of Management Seminar	May 2015
University of Illinois, Actuarial Science and Financial Mathematics Seminar	April 2015
University of Chicago, Booth School of Business Seminar	March 2015
Columbia University/City University of New York, Risk Seminar	March 2012
University of Texas at Austin, RADM Seminar at McCombs School of Business	October 2011
University of Illinois, Coordinated Science Lab Seminar	September 2009
Purdue University, Krannert School of Management Seminar	November 2008

PROFESSIONAL SERVICE

Associate Editor of <i>Management Science</i>	2018-present
Associate Editor of <i>Decision Analysis</i>	2020-present
Secretary/Treasurer of Decision Analysis Society	2019-2022
Reviewer for <i>Management Science</i> , <i>Operations Research</i> , <i>MSOM</i> , <i>Decision Analysis</i> , <i>SIAM Journal on Control and Optimization</i> , <i>Probability in the Engineering</i> <i>and Informational Sciences</i> , <i>IISE Transaction</i> , <i>European Journal of Operational</i> <i>Research</i> , and <i>SPE Economics & Management</i> .	
Member of Editorial Board for <i>Decision Analysis</i>	2011-present
Discussant, Advances in Decision Analysis, Austin, TX	2017
Organizer/Chair of a sponsored session, INFORMS International Meeting	2015, 2016
Organizer/Chair of a sponsored session, INFORMS Annual Meeting 2008, 2010-14, 2016-17, 2019	
Referee for MSOM's SCM SIG Conference papers	2014
Reviewer for <i>Natural Sciences and Engineering Research Council of Canada</i> (NSERC) Discovery Grants	2013
Judge for MSOM student paper competition	2009

CONFERENCE PRESENTATIONS

Workshop: Stochastic Games with Partial and Asymmetric Info	(Invited)	July 2021
INFORMS Annual Meeting (virtual)	(Invited)	November 2020
INFORMS Annual Meeting, Seattle, WA	(Invited)	October 2019
Advances in Decision Analysis, Milan, Italy	(Invited)	June 2019
INFORMS Annual Meeting, Phoenix, AZ	(Invited, presented by Y. Kim)	November 2018
Econometric Society Asian Meeting, Seoul	(Refereed)	June 2018
INFORMS International Conference, Taipei	(Invited)	June 2018
SAET Conference, Taipei	(Refereed)	June 2018
PhD Winter School on Real Options, Tauplitz, Austria	(Invited)	March 2018
INFORMS Annual Meeting, Houston, TX	(Invited)	2017
Advances in Decision Analysis, Austin, TX	(Invited)	2017
INFORMS Annual Meeting, Nashville, TN	(Invited)	2016
INFORMS International Conference, Hawaii	(Invited)	2016
INFORMS Annual Meeting, San Francisco, CA	(Invited)	2014
SIAM Conference on Financial Math and Eng, Chicago	(Invited)	2014
Advances in Decision Analysis, Washington DC	(Refereed)	2014
INFORMS Annual Meeting, Phoenix, AZ	(2 invited presentations)	2012
IMSE Symposium, University of Illinois	(Invited)	September 2012
International Workshop on Applied Probability, Jerusalem, Israel	(Invited)	June 2012
INFORMS Annual Meeting, Charlotte	(Invited)	2011
International Workshop on Sequential Methodologies, Stanford	(Invited)	June 2011
INFORMS Annual Meeting, Austin	(2 invited presentations)	2010
INFORMS Annual Meeting, San Diego	(Invited)	2009
INFORMS International Meeting, Toronto, Canada	(Invited)	2009
INFORMS Applied Probability Society Conference, Ithaca	(Refereed)	2009
INFORMS Annual Meeting, Washington DC	(Invited)	2008
INFORMS Annual Meeting, Seattle	(Invited)	2007
INFORMS International Conference, Puerto Rico	(Invited)	2007
MSOM Meeting, Atlanta, poster presentation	(Refereed)	2006
DSI Meeting, San Antonio	(Refereed)	2006

AWARDS AND HONORS

Nominated for University Graduate Student Mentoring Award University of Illinois	2022
Honorable Mention of Best Paper in the IIE Transactions Focus Issue on Operations Engineering and Analytics for 2018	2018
List of Excellent Teachers, University of Illinois	2014–2021
Outstanding Technical Editor Award, SPE Economics & Management	2014

Finalist, Student Paper Competition of INFORMS Decision Analysis Society	2009
Research grant, Price Center for Entrepreneurial Studies at UCLA	2005–2008
Graduate Dissertation Fellowship, UCLA	2007
Student Travel Scholarship, INFORMS Decision Analysis Society	2007
Graduate Fellowship, UCLA	2003–2007
Elected Membership of Sigma Xi, the Scientific Research Society	1995

PROFESSIONAL MEMBERSHIPS

INFORMS Decision Analysis Society, Applied Probability Society, MSOM Society,
American Economic Association
SIAM

INTERNAL SERVICE AT THE UNIVERSITY OF ILLINOIS

IOSA PhD Qualifier Coordinator	2023-24
IOSA PhD Coordinator	2019-2023
Faculty teaching evaluation for promotion	2023
Graduate Studies Committee (PhD)	2020-22, 2023-24
College Education Policy Committee	2022-24
IOSA PhD Recruitment/Admissions Committee	2023-24
IOSA PhD Second-Year Proposal Evaluation Committee (Chair)	2022
PhD Dissertation Supervisor for Shi Qiu (tentative)	2021
PhD Dissertation Committee for Jialin Song	2021
Marketing Tenure Track Search Committee (Diversity Advocate)	2021
IOSA Specialized Faculty Search Committee	2021
IOSA PhD First-Year Paper Evaluation Committee	2020-2021
BA Head Search Committee	2020
PhD Coordinator for IS and OM area	2019-present
Chair, IOSA PhD Admissions Committee	2019-2020
Chair, IOSA PhD Recruiting Committee	2019-2020
PhD Dissertation Committee Chair for Youngsoo Kim	2018
PhD Dissertation Advisor for Youngsoo Kim	2015-2018
Departmental Advisory Committee	2017-2018
Affirmative Action Committee	2017-2018
Area Leader	2016-2017
PhD Dissertation Committee Chair for Wenxin Xu	2016
PhD Dissertation Advisor for Wenxin Xu	2012-2016
Graduate Studies Committee (PhD), Department of Business Administration	2013-2016
PhD Coordinator for Process Management Area	2013-2015

Departmental proseminar organizer	2012, 2014
PhD Dissertation Committee for Ruchika Sethi	2014
PhD Dissertation Committee for Yuju Tu	2014
Capricious grading committee, Department of Business Administration	2011-2017
PhD Dissertation Committee for Wooje Cho	2010