ANANYA SHETH

Curriculum Vitae

Post-doctoral Research Fellow Stevens Business School Stevens Institute of Technology, NJ

asheth5@stevens.edu; Github; GoogleScholar; ResearchGate; Website

HIGHEST DEGREE EARNED

2016 – 2021 Doctor of Philosophy

Dissertation Title: Pathways to Enterprise Resilience

Concentration: Innovation and Transformational Design The Institute for Innovation Science The Lyles School of Civil Engineering

Purdue University, IN. USA

INDUSTRY-ACADEMIA PARTNERSHIP RESEARCH

2018-2022

Served on research projects linked to **Innovation Strategy** with the Proctor & Gamble Co. via The Consortium for Corporate Entrepreneurship, Stevens Institute of Technology, and The Institute for Innovation Science, Purdue University

AWARDS

2021	NSF dissertation grant (co-PI)	Awarded by the Decision, Risk, and Management Science, Division of Social and Economic Sciences, National Science Foundation . Grant Title: Doctoral Dissertation Research in DRMS: Building a comprehensive understanding of enterprise risks and their interdependencies for improved risk-intelligence. https://www.nsf.gov/awardsearch/showAward?AWD_ID=2049782&HistoricalAwards=false
2021	Business model competition	Burton D. Morgan Business Model Competition, Purdue University Awarded the best social innovation business plan
2019	Grant	Purdue University Graduate School
2015	Scholarship	Construction Management Association of America – Chicago
2012	Finalist	Go Green in the City 2012 – A top-tier global annual innovation challenge by Schneider Electric – Paris

PEER-REVIEWED PAPERS (PUBLISHED)

2022	Sheth, A. Sinfield, JV.	An analytical framework to compare innovation strategies and identify simple rules. Technovation , 115, 102534. https://doi.org/10.1016/j.technovation.2022.102534
2022	Sheth, A. Kusiak, A.	,
2021	Sheth, A. Sinfield, JV.	,
2020	Sinfield, JV. Sheth, A. Kotian, RR.	Challenges. Sustainable Futures 2020, 2.
2014	Sheth, A. Goel, A. Pai, BV.	Properties of Concrete on Replacement of Coarse Aggregate and Cementitious Materials with Styrofoam and Rice Husk Ash American Journal of Engineering Research 2014, 3(1), 268-271.

PEER-REVIEWED PAPERS (Revise & Resubmit)

2022		Building Resilient Enterprises MIT Sloan Management Review
2022	Bertels, H. Sheth, A.	Building Megaproject Resilience with Stakeholders: The Roles of Citizenship Behavior and Critical Transition Mechanisms International Journal of Project Management: Special Issue on Resilience in Project Studies
2022	DiPaola, M.	Leadership Behaviors Needed to Implement Ambidextrous Organizations within Large Incumbent Firms Harvard Business Review

PEER-REVIEWED PAPERS (IN-REVIEW)

2022	Collective leadership in Top Management Teams (TMTs): Individual behaviors and TMT performance Organization Science
2022	A Comprehensive Taxonomy of Enterprise Risk Events Journal of Business Research

INVITED TALKS

2021	CASN-RA	A Comprehensive Typology of Complex Supply Chain Risk Networks
	ASU	Venue: Complex Adaptive Supply Networks – Research Accelerator,
		Arizona State University co-presented with Prof. Rachna Shah
		(Carlson School of Business – University of Minnesota)

WORKING PAPERS

2022		"Where to play?" An Expanded Three-Part Exploration Typology for Large Incumbent Firms Academy of Management Review
2022	Shah, R.	Variations in firm riskiness and their causes: An industry-firm multi-level analysis Management Science
2022	Sheth, A.	Enterprise Risk Management with Human and Artificial Intelligence Journal of Management Studies: Al and Organizations Special Issue

COMPETITIVE GRANT WRITING

2021		Doctoral Dissertation Research Improvement Grant – Decision, Risk, Management Science, Division of Social and Economic Sciences, National Science Foundation .
		<u>Grant Title:</u> Doctoral Dissertation Research in DRMS: Building a comprehensive understanding of enterprise risks and their interdependencies for improved risk-intelligence.
		https://www.nsf.gov/awardsearch/showAward?AWD ID=2049782&HistoricalAwards=false
2016	Fellowship	Kauffmann Foundation graduate research grant Grant Title: Embracing change : the art of transformation for the intrapreneur. (not awarded)

REFEREED CONFERENCE PAPERS

2022	Managing with Stakeholders: Citizenship Behavior Action Strategies for Mega Project Resilience Eastern Academy of Management, 2022
2019	Simulating Self-Organization during Strategic Change: Implications for Organizational Design. Collective Intelligence 2019, Carnegie Mellon University – Pittsburgh. arXiv:2007.08521v1
2018	Applying 'simple-rules' to simulate managerial adaptation to strategic change European Group for Organizational Studies (EGOS) 2018, Tallinn, Estonia
2017	Swarm Intelligence and Organizations. Society for Industrial and Applied Mathematics (SIAM)

PAPER DEVELOPMENT WORKSHOPS

2018	Towards proactive organizational change. Paper Development Workshop - Academy of Management (AOM) 2019 Chicago
2018	The theory of proactive organizational resilience. Academy of Management Review (AMR) 2018, Haas School of Business, University of California Berkeley

REFREED POSTERS

2020	Towards Resilient Organizations- Beginning with a Typology of Risks. Purdue's intramural annual Sigma Xi poster competition
2019	·

OTHER PUBLICATIONS

2019	Sheth, A., Sinfield, JV.	Enabling Innovation Insights Report for the Proctor & Gamble Co.
2019	Sheth, A., Sinfield, JV.	Enabling Innovation Implementer's Guide for the Proctor & Gamble Co.
2018		Synthesis Study: Overview of Readily Available Culvert Inspection Technologies – Joint Transportation Research Program Indiana State Department of Transport (INDOT)

TEACHING AND MENTORING EXPERIENCE

Present	Lecturer	MGT-103: Introduction to Entrepreneurial Thinking at The Stevens Business School, Stevens Institute of Technology. Mandatory course for all first-year engineering students (550+students). Taught in collaboration with 11 other faculty members.
Present	Mentor	Two Ph.D. candidates at the Institute for Innovation Science, Purdue University.
Spring 2020	Proxy Lecturer	Purdue University class ENGR 490 on Breakthrough Thinking for Complex Challenges. I introduced undergraduate seniors and juniors to Systems Thinking, covering the variety of system, complexity and associated concepts, and their application to the class project. https://www.youtube.com/watch?v=IDO0272iydM
2018- 2020	Lab coach	Transferred research skills and new methods to the Innovation Science Lab group on a monthly basis as part of our lab's research

		effectiveness and skill transfer agenda. This often involved teaching methods to students working in parallel areas.
2019- 2020	Mentor	Played the role of mentor to one incoming graduate student under the Purdue Civil Engineering peer-mentoring program 2019- 2020
2015- 2017	Facilitator	A component of my job as program manager for URGlobal was facilitating discussions and hosting training sessions for undergraduate club officers. These trainings encompassed methods to design learning programs, techniques to deliver them and improve student engagement, as well as personality introspection.

SERVICE

2020- 2021	Team lead	Purdue Engineering Initiative on Innovation & Making – Aggregation of innovation resources at Purdue University and website design
201 <i>7</i> - 2021	Reviewer	The Academy of Management (AOM) annual meeting
2018- 2022	Reviewer	The International Journal of Systematic Innovation
2021- 2022	Reviewer	The International Journal of Innovation Science
2016- 2018	Co-chair	Professional development committee for the Civil Engineering Graduate Students Advisory Council (CEGSAC) – Purdue University
2018- 2019	Organizer	Research Bytes seminar series, Graduate research symposium series, and Successful Alumni series of the CEGSAC

INDUSTRY WORK EXPERIENCE

2018- 2021	Researcher	Proctor & Gamble Co. • Served on industry-academia partnership research projects • with the Corporate R&D Organization • with the Feminine Care Business Division • with the Oral Care Business Division
2020	Research Fellow	
2019	Research fellow	 Purdue Ventures Lead researcher for the due diligence effort on an early-stage Purdue-licensed technology for a \$500,000 funding round
2014- 2016	Assistant Program Manager	 Purdue University Residences Built the UR Global program and Student Club. Led trainings and conducted leadership workshops for 30+student volunteers

	 Organized 30+ events for international undergraduate students' development
2012- 2014	 V-Create Architects, India Delivered two construction projects and played key roles in all phases of the construction life cycle. Led the operations team to deliver 67,000 sft. of space on time and within budget, maintaining an optimum construction cycle

EDUCATION AND TRAINING

Post-doctoral Research Fellow
The Consortium for Corporate Entrepreneurship
Stevens Business School
Stevens Institute of Technology, Hoboken, NJ. USA
Doctor of Philosophy
Concentration: Innovation and Transformational Design
Dissertation: Pathways to Enterprise Resilience
The Institute for Innovation Science
The Lyles School of Civil Engineering
Purdue University, IN. USA
Master of Science
The Lyles School of Civil Engineering
Purdue University, USA
GPA: 3.83
Bachelor of Engineering
Department of Civil Engineering
Manipal Institute of Technology, India
GPA: 3.50

RELEVANT COURSEWORK

Concept building coursework:		
Strategic management I	Gained a foundational understanding of both Business and Corporate Strategy	
Competitive strategy	Gained a foundational understanding of competitive dynamics and competitive strategy	
Entrepreneurship and business strategy in engineering	Gained a foundational understanding of approaches for business opportunity evaluation, testing, and development	
Breakthrough thinking for	Gained a systematic converge-structure-diverge method to frame and address complex challenges	

complex challenges	
Deep learning	Gained a foundational understanding of deep learning methodologies and an opportunity to apply them for text data
Perspectives on systems engineering	Gained a conceptual view of the various flavors of systems and the various approaches to analyze them qualitatively
Systems-of- systems modelling and analysis	Gained a conceptual understanding of multiple-interacting systems, their modeling, and their analysis
Methodology-foo	cused coursework:
Analytical method in design and construction	Learned simulation methods such as agent-based modeling and applied them to the domain of organizations
Statistical and econometric methods	Gained a foundational understanding of econometrics and the experience of applying it to the domain of organizations
Business Analytics	Gained a methodological foundation in formulating and analyzing the business case in corporate companies
Optimization modelling with spreadsheets	Gained a methodological foundation in applying data-driven techniques for problems related to business operations
Nature-inspired computation	Got introduced to computational methods inspired by natural systems that are useful in system optimization and beyond
Natural language technologies	Gained a foundational understanding of computational linguistics and their application to business systems
Professional deve	elopment-focused coursework:
Succeeding as an engineering professor	Gained a holistic view of the opportunities, challenges, and professiona milestones in the career of a tenure-track Engineering faculty at a R1 university in the USA, and strategies to succeed therein. Additionally, gained detailed understanding of writing a successful NSF Career grant
Student managed	Experiential Learning Initiative: Provided an opportunity to lead the due diligence process for a real-life investment opportunity on behalf of the

consulting experience with leading consulting companies

An Experiential Learning Initiative- Gained real-world corporate

Purdue Venture Fund

venture fund

ELI: Corporate

consulting

SKILL DEVELOPMENT WORKSHOPS

- Publishing in AMR: A workshop with the editors
- Writing Effective Teaching Cases workshop offered by the casecenter.org
- Writing Publishable Papers series offered at the Purdue College of Engineering
- eXtreme Science and Engineering Discovery Environment (XSEDE) workshops on using High Performance Computing resources provided by the XSEDE project

PROFESSIONAL MEMBERSHIPS

- Academy of Management (AOM)
- European Group on Organizational Studies (EGOS)
- Industry Studies Association (ISA)
- The Society for Decision Making Under Deep Uncertainty (DMDU)
- International Society for Professional Innovation Management (ISPIM)
- Association of Computing Machinery (ACM)
- Institute for Operations Research and the Management Sciences (INFORMS)
- Purdue System Thinkers Student Chapter of Purdue (INCOSE)
- The Evolution Institute
- The Prosocial Institute

EXTRA-CURRICULAR ACTIVITIES

- Karate Goju Ryu (7th Kyu)
- Art of Living Purdue Chapter
- Founding member TATVAM Global fusion music band at Purdue
 - o Performed 50+ music shows in Indiana and Illinois