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| **Curriculum Vitae** | **ANANYA SHETH** |
| **Post-doctoral Research Fellow Stevens Business School Stevens Institute of Technology, NJ** |
| [asheth5@stevens.edu](mailto:asheth5@stevens.edu); [Github](http://www.github.com/sheth7); [GoogleScholar](https://scholar.google.com/citations?user=DHhwS5wAAAAJ&hl=en&oi=ao); [ResearchGate](https://www.researchgate.net/profile/Ananya_Sheth); [Website](http://www.anansheth.com/) |

**HIGHEST DEGREE EARNED**

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| 2016 – 2021 | Doctor of Philosophy |
|  | **Dissertation Title: Pathways to Enterprise Resilience** |
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|  | Concentration: Innovation and Transformational Design |
|  | The Institute for Innovation Science |
|  | The Lyles School of Civil Engineering |
|  | **Purdue University, IN. USA** |

**INDUSTRY-ACADEMIA PARTNERSHIP RESEARCH**

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| 2018-2022 | Served on research projects linked to **Innovation Strategy** with the Procter & 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)**  NSF Logo | NSF - National Science Foundation | 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*](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>  *Impact factor: 11.373 | ABS / AJG: 3* |
| 2022 | Sheth, A. Kusiak, A. | Resiliency of Smart Manufacturing Enterprises via Information Integration. **Journal of Industrial Information Integration**, 100370. <https://doi.org/10.1016/j.jii.2022.100370>  *Impact factor: 11.718* |
| 2021 | Sheth, A. Sinfield, JV. | Systematic Problem-specification in Innovation Science using Language. **The International Journal of Innovation Science** <https://doi.org/10.1108/IJIS-03-2020-0019>  *Impact factor: 3.19 | ABS / AJG 1* |
| 2020 | Sinfield, JV. Sheth, A. Kotian, RR. | Framing the Intractable: Comprehensive Success Factors for Grand Challenges. **Sustainable Futures** 2020, 2. <https://doi.org/10.1016/j.sftr.2020.100037>  *Impact factor: 3.073* |
| 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.  *Impact factor: 1.06* |

**Provisional Accept:**

|  |  |  |
| --- | --- | --- |
| 2022 | Sheth, A. Sinfield, JV. | Risk Intelligence for Enterprise Resilience  **MIT Sloan Management Review**  *Impact factor: 3.155 | FT-50 | ABS / AJG 3* |

**Revise & Resubmit:**

|  |  |  |
| --- | --- | --- |
| 2022 | Morkan, B. Bertels, H. Sheth, A. Holahan, P. | 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**  *Impact factor: 9.073 | ABS / AJG 2* |
| 2022 | Bishop, S. DiPaola, M. Hill, L. Koen, P. Sheth, A. | Leadership Behaviors Needed to Implement Ambidextrous Organizations within Large Incumbent Firms  **Harvard Business Review**  *Impact factor: 6.87 | FT-50 | ABS / AJG 3* |

**PAPERS**

**In Preparation:**

|  |  |  |
| --- | --- | --- |
| 2022 | Sheth A. Koen P. | “Where to play?” An Expanded Three-Part Exploration Typology for Large Incumbent Firms  **Academy of Management Review**  *Impact factor: 13.865 | FT-50 | ABS / AJG 4\** |
| 2022 | Sheth, A. Sinfield, JV. | Collective leadership in Top Management Teams (TMTs): Individual behaviors and TMT performance  **Revising based on AE review at Organization Science**  *Impact factor: 5.152 | FT-50 | ABS / AJG 4\** |
| 2022 | Sheth, A. Shah, R. Sinfield, JV. | Variations in firm riskiness and their causes: An industry-firm multi-level analysis **Management Science**  *Impact factor: 6.172 | FT-50 | ABS / AJG 4\** |
| 2022 | Sheth, A. | Enterprise Risk Management with Human and Artificial Intelligence  **Journal of Management Studies: AI and Organizations Special Issue**  *Impact factor: 9. 720 | FT-50 | ABS / AJG 4* |

**INVITED TALKS**

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

**REFEREED CONFERENCE PAPERS**

|  |  |  |
| --- | --- | --- |
| 2022 | Morkan, B. Bertels, H. Sheth, A. Holahan, P. | Managing with Stakeholders: Citizenship Behavior Action Strategies for Mega Project Resilience **Eastern Academy of Management**, 2022 |
| 2019 | Sheth, A., Sinfield, JV. | Simulating Self-Organization during Strategic Change: Implications for Organizational Design.  **Collective Intelligence** 2019, Carnegie Mellon University – Pittsburgh. [arXiv:2007.08521v1](https://arxiv.org/abs/2007.08521v1) |
| 2018 | Sheth, A., Sinfield, JV. | Applying ‘simple-rules’ to simulate managerial adaptation to strategic change  **European Group for Organizational Studies (EGOS)** 2018, Estonia |
| 2017 | Sheth, A., Sinfield, JV. | Swarm Intelligence and Organizations.  **Society for Industrial and Applied Mathematics (SIAM)** |

**PAPER DEVELOPMENT WORKSHOPS**

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

**REFREED POSTERS**

|  |  |  |
| --- | --- | --- |
| 2020 | Sheth, A., Sinfield, JV. | Towards Resilient Organizations- Beginning with a Typology of Risks. Purdue’s intramural annual Sigma Xi poster competition |
| 2019 | Lin, YC.,  Lumpkin, D.  Sheth, A.,  Sinfield, JV. | Enabling Innovation in Action  The Civil Engineering Graduate Research Symposium – Purdue University |

**OTHER PUBLICATIONS**

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

**COMPETITIVE GRANT WRITING**

|  |  |  |
| --- | --- | --- |
| 2021 | Co-PI on an **awarded and completed NSF grant** | Doctoral Dissertation Research Improvement Grant – Decision, Risk, 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*](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)* |

**TEACHING AND MENTORING EXPERIENCE**

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| **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*](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**

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| 2020-2021 | Team lead | Purdue Engineering Initiative on Innovation & Making –  Aggregation of innovation resources at Purdue University and website design |
| 2017-2021 | 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**

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| 2018-2021 | Researcher | Purdue and Stevens projects with the Procter & 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 | DigitalDx Ventures   * Formulated organization strategy for the venture fund |
| 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 | Assistant Project Manager | 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**

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| --- | --- |
| 2021 – 2022 | Post-doctoral Research Fellow |
|  | The Consortium for Corporate Entrepreneurship |
|  | Stevens Business School |
|  | Stevens Institute of Technology, Hoboken, NJ. USA |
| 2016 – 2021 | 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 |
| 2014 – 2016 | Master of Science |
|  | The Lyles School of Civil Engineering |
|  | Purdue University, USA |
|  | GPA: 3.83 |
| 2008 – 2012 | Bachelor of Engineering |
|  | Department of Civil Engineering |
|  | Manipal Institute of Technology, India |
|  | GPA: 3.50 |

**RELEVANT COURSEWORK**

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| **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 complex challenges | Gained a systematic converge-structure-diverge method to frame and address 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-focused 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 development-focused coursework:** | |
| Succeeding as an engineering professor | Gained a holistic view of the opportunities, challenges, and professional 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 venture fund | Experiential Learning Initiative: Provided an opportunity to lead the due diligence process for a real-life investment opportunity on behalf of the Purdue Venture Fund |
| ELI: Corporate consulting | An Experiential Learning Initiative- Gained real-world corporate consulting experience with leading consulting companies |

**PROFESSIONAL MEMBERSHIPS**

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| * Academy of Management (AOM) * Institute for Operations Research and the Management Sciences (INFORMS) * European Group on Organization 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 |

**SKILL DEVELOPMENT WORKSHOPS**

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| * Publishing in AMR: A workshop with the editors * Workshop series organized by The Cranfield SOM - Strategy group * 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 |

**EXTRA-CURRICULAR ACTIVITIES**

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

**PROFESSIONAL REFERENCES**

|  |  |
| --- | --- |
| Referee #1 | Prof. Joseph V. Sinfield  Professor of Civil Engineering Director of the [Institute for Innovation Science](https://engineering.purdue.edu/Innovation)  Director of the College of Engineering Innovation and Leadership Studies Program  Purdue University  West Lafayette – Indiana – USA  Email: [jvs@purdue.edu](http://jvs@purdue.edu)  Relationship: Ph.D. mentor and co-author |
|  |  |
| Referee #2 | Prof. Peter A. Koen  Associate Professor Director of the [Consortium for Corporate Entrepreneurship](http://frontendinnovation.com/consortium-for-corporate-entrepreneurship)  Stevens School of Business  Stevens Institute of Technology  Hoboken – New Jersey – USA  Email: [pkoen@stevens.edu](http://pkoen@stevens.edu)  Relationship: Post-doc mentor and co-author |
|  |  |
| Referee #3 | Prof. Rachna Shah  Professor, Supply Chain and Operations Department Carlson School of Management  University of Minnesota  Minneapolis – USA  Email: [shahx024@umn.edu](http://shahx024@umn.edu)  Relationship: External mentor and co-author |
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| Referee #4 | Prof. Andrew Kusiak  Professor, Department of Mechanical and Industrial Engineering Director of the Intelligent Systems Laboratory  University of Iowa Iowa City-USA  Email: [andrew-kusiak@uiowa.edu](http://andrew-kusiak@uiowa.edu)  Relationship: Dissertation committee member and co-author |
|  |  |
| Referee #5 | Prof. Patricia Holahan  Professor, Information Science Department  Stevens Institute of Technology  Hoboken – New Jersey – USA  Email: [pholahan5@gmail.com](mailto:pholahan5@gmail.com@stevens.edu)  Relationship: Co-author |