

## **ANANYA SHETH**

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## **Curriculum Vitae**

last updated – 11/2020

### **EDUCATION**

- |                    |   |
|--------------------|---|
| 2016 – 2021 (exp.) | Doctoral Candidate & Research Assistant<br>The Innovation Science Lab at Purdue University<br>GPA: 3.75 |
| 2014 – 2016        | M.S. Civil Engineering<br>Purdue University<br>GPA: 3.83  |
| 2008 – 2012        | B.E. Civil Engineering<br>Manipal Institute of Technology, India<br>GPA: 3.50                           |

### **PEER-REVIEWED PAPERS**

- |      |   |   |
|------|---|---|
| 2020 | Sinfield, JV.<br>Sheth, A.<br>Kotian, RR. | Framing the Intractable: Comprehensive Success Factors for Grand Challenges<br>Sustainable Futures – Elsevier. <i>10.1016/j.sftr.2020.100037</i>  |
| 2020 | Sheth, A.,<br>Sinfield, JV.               | Systematic Problem-specification in Innovation Science using Language<br><i>The International Journal of Innovation Science – Emerald. 10.1108/IJIS-03-2020-0019</i>                          |
| 2020 | Sheth, A.,<br>Sinfield, JV.               | Swarm Modelling of Collective Leadership in Top Management Teams<br>In-revision – <i>The Leadership Quarterly – Elsevier</i><br><i>Likely publication date: Spring 2021</i>                   |
| 2020 | Sheth, A.,<br>Sinfield, JV.               | Simple Rules for Innovation Strategy<br>Under-review – <i>Technovation – Elsevier</i><br><i>Likely publication date: Spring 2021</i>  |
| 2014 | Sheth, A.,<br>Goel, A.,<br>Pai, BV.       | Properties of Concrete on Replacement of Coarse Aggregate and Cementitious Materials with Styrofoam And Rice Husk Ash<br><i>American Journal of Engineering Research 2014, 3(1), 268-271.</i> |

### **MANUSCRIPTS IN PREPARATION**

- |      |   |  |
|------|---|--|
| 2020 | Sheth, A.<br>Sinfield, JV.                  | A Taxonomy of Enterprise Risks<br><i>Journal of Risk Research – Taylor &amp; Francis</i><br><i>Likely submission date: December 2020</i>   |
| 2020 | Kotian, RR.,<br>Sheth, A.,<br>Sinfield, JV. | A Generalized Pattern for Issue Analysis: The case of small-medium enterprises in International Development<br><i>Development Engineering – Elsevier</i><br><i>Likely submission date: Spring 2020</i> |
| 2020 | Ajmani, A.,<br>Sheth, A.,<br>Sinfield, JV.  | Defining an Innovation Focus for Marine Renewable Energy in the USA<br><i>The Marine Technology Society Journal</i><br><i>Likely publication date: Spring 2021</i>                                     |

- 2020 Sheth, A., Linguistic AI in Generating Purpose-Contexts for Manufacturing  
Misra, K., *Journal of Intelligent Manufacturing – Springer Nature*  
Rayz, JT. *Likely submission date: Spring 2021*
- 2020 Sheth, A., Innovation Motifs for Design  
Solis, F., *Design Studies – Elsevier*  
Sinfield, JV. *Likely submission date: Summer 2021*
- 2020 Sheth, A., Innovation Motifs and Strategy  
Solis, F., *Innovation – Taylor & Francis*  
Sinfield, JV. *Likely submission date: Summer 2021*

#### **REFEREED CONFERENCE PAPERS & TALKS**

- 2019 Sheth, A., Simulating Self-Organization during Strategic Change: Implications for  
Sinfield, JV. Organizational Design  
*Presented at the ACM – SIGCHI – Collective Intelligence Conference 2019, Carnegie Mellon University – Pittsburgh. arXiv:2007.08521v1*
- 2018 Sheth, A., Applying 'simple-rules' heuristics to simulate self-organized managerial  
Sinfield, JV. adaptation to strategic change in three organizational designs  
*Presented at the 34th European Group for Organizational Studies (EGOS) Colloquium at Tallinn, Estonia*
- 2018 Sheth, A., Towards proactive organizational change.  
Sinfield, JV. *Paper Development Workshop - Academy of Management (AOM) Chicago*
- 2018 Sheth, A., The theory of proactive organizational resilience.  
Sinfield, JV. *Paper Development Workshop - Academy of Management Review (AMR) – Haas School of Business, University of California Berkeley*
- 2017 Sheth, A., Swarm Intelligence and Organizations.  
Sinfield, JV. *Presented at the Society for Industrial and Applied Mathematics (SIAM) – Purdue Chapter*

#### **REFREED POSTERS**

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

#### **OTHER PUBLICATIONS**

- 2019 Sheth, A., Enabling Innovation Insights Report for the Proctor & Gamble Co.  
Sinfield, JV.
- 2019 Sheth, A., Enabling Innovation Implementer's Guide for the Proctor & Gamble  
Sinfield, JV. Co.

2018      Sheth, A.,      Synthesis Study: Overview of Readily Available Culvert Inspection  
              Sinfield, JV.      Technologies – Joint Transportation Research Program - The Indiana  
                                  State Department of Transport (INDOT)

## GRANT WRITING EXPERIENCE

2020              Co-PI      Doctoral Dissertation Research Improvement Grant – Decision, Risk,  
                                  Management Science Division – *National Science Foundation*  
                                  (awarded amount \$ 37,975)

2016      Fellowship      Kauffmann Foundation graduate research grant - (not awarded)

## AWARDS

2019      Sinfield, JV.,      Provisional Patent on Computational Natural-Language Processing for  
              Sheth, A.,      Issue Trees – *Purdue Research Foundation and USPTO*

2019      Travel grant      Purdue University Graduate School

2015      Scholarship      Construction Management Association of America – Chicago

2012              Finalist      Go Green in the City – Global Innovation Challenge  
                                  *Schneider Electric - Paris*

## SERVICE

2020      Team lead      Purdue Engineering Initiative on Innovation & Making –  
                                  Congregation of innovation resources at Purdue University and  
                                  website design

2016-              Co-chair      Professional development committee for the Civil Engineering  
 2018                   Graduate Students Advisory Council (CEGSAC) – *Purdue University*

2017-              Reviewer      The Academy of Management (AOM) annual meeting  
 2020

2020              Reviewer      The International Journal of Innovation Science

## SKILL DEVELOPMENT WORKSHOPS

- Writing Publishable Papers 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)
- The Society for Decision Making Under Deep Uncertainty (DMDU)
- International Society for Professional Innovation Management (ISPIM)
- Association of Computing Machinery (ACM)
- Purdue System Thinkers – Student Chapter of Purdue (INCOSE)
- The Evolution Institute
- Advanced Degree Consulting Club at Purdue

## INDUSTRY WORK EXPERIENCE

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|-----------|---------------------------|--|
| 2014-2016 | Assistant Program Manager | Purdue University Residences <ul style="list-style-type: none"><li>• Built the UR Global program and Student Club.</li><li>• Led trainings and conducted leadership workshops for 30+ student volunteers</li><li>• Organized 30+ events for international undergraduate students' development</li></ul>                    |
| 2012-2014 | Assistant Project Manager | V-Create Architects, India <ul style="list-style-type: none"><li>• Delivered two construction projects and played key roles in all phases of the construction life cycle.</li><li>• Led the operations team to deliver 67,000 sft. of space on time and within budget, maintaining an optimum construction cycle</li></ul> |

## EXTRA-CURRICULAR ACTIVITIES

- Karate – Goju Ryu
- Art of Living – Purdue Chapter
- Founding member – TATVAM – Global fusion music band at Purdue
  - Performed 50+ music shows in Indiana and Illinois