

Bhawesh Sah

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Education

PhD , Industrial & Systems Engineering (GPA: 3.84/4) State University of New York at Binghamton, Binghamton, New York	Aug 2015 – Aug 2019
Fellow , Decision Sciences Indian Institute of Management, Lucknow, India	May 2014 – Jun 2015
M-Tech , Industrial Engineering & Management (GPA: 9.01/10) Indian School of Mines, Dhanbad, India	Aug 2012 – May 2014
B-Tech , Mechanical Engineering (Percentage: 64/100) Uttarakhand Technical University, Dehradun, India	Aug 2007 – May 2011

Professional Experience

Teaching Assistant Professor , Supply Chain and Information Management Group D'Amore-McKim School of Business (Northeastern University) Advisors: Prof. Yang Lee, Prof. Gilbert Nyaga	Aug 2019 – Present
<ul style="list-style-type: none">• Business Statistics with Python (Instructor rating of 4.4/5)• Fundamentals of Info Analytics (Instructor rating of 4.6/5)• Data mining for Business (Instructor rating of 4.9/5)• Data Mining and Machine Learning (Instructor rating of 4.7/5)	
Graduate Research Assistant , Computational and Operational Research (CORE) lab Advisor: Prof. Sung Hoon Chung	Jan 2018 – May 2019
<ul style="list-style-type: none">• MILP formulation of the Multiple Truck and Drone Problem• Development of heuristics for the Traveling Salesman Problem with Drone (TSPD)• Robust optimization• Machine learning• Mathematical modeling and data analysis	
Graduate Research Assistant , Watson Institute of Systems Excellence(Binghamton University) Advisor: Prof. Sung Hoon Chung	Jun 2017 – Jan 2018
<ul style="list-style-type: none">• Reporting Key Performance Indicators (KPIs) weekly and daily• Preparing daily and weekly metrics to report productivity• Warehouse capacity planning based on forecasted production data• Order batching and aisle balancing in the warehouse• Improving the Kanban Replenishment Process	

Graduate Research Assistant, Watson Institute of Systems Excellence(Binghamton University)

Aug 2016– Apr 2017

Advisor: Prof. Nagen Nagarur

- Final inspection using 3D solder paste inspection machine
- NPI Engineer for a medical product. Prepared DMR, Training Matrix and LHR
- Worked to meet requirements of ISO 9001, ISO 13485
- Made quality reports (Daily and Weekly)

PhD Fellow, State University of New York at Binghamton

May 2016 – Aug 2016

Advisors: Prof. Nagen Nagarur, Prof. Sung Hoon Chung

- Large scale optimization,
- Robust supply chain modelling

Teaching Assistant, State University of New York at Binghamton

Sep 2015 – May 2016

Courses: Applied Probability and Statistics, Operations Management and Supply Chains

- Graded Homework, Quizzes, Mid-Term and End-Term
- Gave two guest lectures (Linear Programming, Bullwhip Effect)

Technical Certificates

Lean Six Sigma Green Belt, State University of New York at Binghamton

Jan 2016

Computer Skills

- Statistical Analysis: Minitab, SPSS, SAS
- Simulation: Arena
- Programming: R, Julia, Python, SQL
- General Computer Knowledge: MS Office, Microsoft Excel, Visio

Selected Publications

- Titiyal, R., Thakkar, J. J., & Sah, B. (2022). Impact of e-fulfillment on consumer loyalty across different product types. *Journal of Asia Business Studies*, (ahead-of-print).
- Sah, B., Gupta, R., & Bani-Hani, D. (2021). Analysis of barriers to implement drone logistics. *International Journal of Logistics Research and Applications*, 1-20.
- Chung, S. H., Sah, B., & Lee, J. (2020). Optimization for Drone and Drone-truck Combined Operations: A Review of the State of the Art and Future Directions. *Computers & Operations Research*, 105004.
- Shetty, N., Sah, B., & Chung, S. H. (2020). Route optimization for warehouse order picking operations via vehicle routing and simulation. *SN Applied Sciences*, 2(2), 311.
- Raj, A., & Sah, B. (2019). Analyzing critical success factors for implementation of drones in the logistics sector using greyDEMATEL based approach. *Computers & Industrial Engineering*, 138, 106118.
- Sah, B., Titiyal, R., & Bhandari, D. D. (2019). Product assignment using quadratic assignment model in retail. *International Journal of Services and Operations Management*, 32(1), 25-43.
- Halawa, F., Sah, B., Srihari, K., & Chung, S. H (2018). A Milk-run Approach of Truck Scheduling Problem: Mathematical Formulation and Genetic Algorithm. *Proceedings of The Institute of Industrial Engineers Annual Conference, Orlando, FL, 19 – 22 May*.

- Li, Y., Sah, B., Halawa, F., & Chung, S. H (2018). Inventory Rebalancing for One-Way Electric Vehicle Sharing Systems. *Proceedings of The Institute of Industrial Engineers Annual Conference, Orlando, FL, 19 – 22 May*.
- Sah, B., Titiyal, R., & Sonia. (2017). A goal programming and simulation based study for overall process improvement in an Indian hospital. *International Journal of Services and Operations Management, 27(4), 439-456*.
- Sah, B., N. Dhende, P. Sawant, S. Salunke (2016). A Model for Supply Chain Optimization of An Engineering Product – An Indian Scenario. *Proceedings of The Institute of Industrial Engineers Annual Conference, Anaheim, CA, 21 – 24 May*.
- Sah, B., R. K. Mondal, and S. Mondal (2013). In Plant Logistics: A Case Study of The Turnaround Process of Trailers in a Steel Plant. *International Journal of Computing 3(4), 305-309*.

Working Papers

- Multiple Drone and Truck parcel delivery: Modeling and heuristics. *Targeting Computers & Operations Research*.
- A Bi-objective model for the Multiple Drone and Truck parcel delivery model. *Targeting Computers & Industrial Engineering*.
- Pseudo node insertion method for the Travel Salesman Problem with Drone. *Targeting Computers & Operations Research*.
- Social media text mining framework for drone logistics. *Targeting International Journal of Logistics Research and Applications*.

Working Book

- Data mining and machine learning for business. *Cognella Publishing*. Preliminary version to be published in Fall 2023.

Honors and Achievements

- Provost Fellowship, State University of New York at Binghamton Summer (2016 ,2017, 2018)