

## HIGHLIGHTS

- Product Management
- Strategic & Detailed thinker
- Machine Learning
- Network Science
- Data Science & Analysis
- Published Researcher
- Canadian Space Society
- Python, R, Mongo, SQL, Linux
- Spark, AWS, Jira, Invision

## EMPLOYMENT EXPERIENCE

- **Director, Product Innovation** Toronto, Canada  
Receptiviti Jan 2020 – Current  
*Startup with 10 employees; Delivering psychological metrics from natural language*
  - **Creating and transforming product ideas** by prototyping product features and experimental methods in machine learning, network science while managing their transformation into product
  - **Managing data pipeline** creation on Spark to ingest and featurize ~600GB natural language data
- **Technical Product Manager** Jun 2018 – Jan 2020
  - **Created product roadmap and vision** for 5 product launches while championing voice of customer
  - **Managed engineering delivery** for \$1M contract and created 70% more accurate team productivity metrics
- **Product Management Intern** Ottawa, Canada  
IBM, Extreme Blue Internship, Watson Analytics May – Aug 2017
  - **Managed strategic partnerships** while developing business case for new product totaling \$101M in revenue leveraging partnerships within company; Pitched to IBM senior leadership in Canada and USA
  - **Managed team** of 4 and inter-team relationships for concept-to-pitch of new product in Watson Analytics Business Intelligence software using natural language processing to discover novel data sources
- **Data Scientist** Bangalore, India  
GadflyZone India Mar 2016 – Jul 2016  
*Startup with 3-5 employees; Data Science driven Strategic Consulting firm in Chemicals*
  - **Conceived technology strategy** and created direction of technology within firm as technical right hand to founder
  - **Architected and designed machine learning** capabilities to generate strategic and market positioning recommendations. Efficiency improved by 90% and accuracy by 50%
- **Senior Data Science Engineer** Apr 2015 – Mar 2016
  - **Innovated and designed** 5 context-based recommendation engines featured as core competency in client reviews
  - **Designed candidate skills assessment** package as member of senior interview team
- **Researcher** Philadelphia, USA  
University of Pennsylvania Aug 2013 – Mar 2015
  - **Conducted research** on brain connectivity analysis and community detection in autism spectrum disorder with MEG and DTI data and co-authored 3 conference papers
- **Research Assistant** Sep 2012 – Aug 2013
  - **Implemented machine learning** head detection with predictive gaze estimates using Kinect RGBD streams; Designed recording facility and conducted video data collection exercise for over 300 participants

### Additional Experience

Summer Intern, Neuromorphics Lab, Boston University  
Senior Software Engineer, Yahoo! India

May 2012 – Aug 2012  
2009 - 2011

## EDUCATION

### MBA

Rotman School of Management, University of Toronto

Toronto, Canada  
2018

- **Academic:** Dean's List, GPA 3.78/4.0, GMAT 780/800
- **Creative destruction lab:** Co-founded space robotics company
- **Teaching Scholar** for >70 students in Statistics, Intro to finance, Data modelling and Managerial accounting

### Master of Science in Engineering, Robotics

University of Pennsylvania

Philadelphia, USA  
2013

- **Academic:** GPA 3.97/4.0
- **Teaching Assistant** for > 120 students in Psychology department for Introduction to Cognitive Science
- **Projects:** RASC-AL Robo-ops challenge 2012, Temporal dynamics of core periphery structure, 2D SLAM, 3D UKF orientation tracking, Autonomous robot hockey team, Finger flexion prediction from EEG

### Bachelor of Engineering, Computer Engineering

Delhi Technological University

New Delhi, India  
2009

## AWARDS & LEADERSHIP

Rotman Lisa Hamann Award 2017

Rotman Scholar Award 2017

Rotman Roger L. Martin Entrance Scholarship 2016

Vice President Rotman Net Impact 2017-2018

2<sup>nd</sup> place at Rotman Sustainability Innovation 2017

2<sup>nd</sup> place at Rotman Venture Capital Case Competition 2016

1<sup>st</sup> place at Rotman Entrepreneurship Strategy 2016

Delhi Technological University Gold Medal Winner 2009

## VOLUNTEER WORK

Canadian Space Society – Society development manager

Habitat Marte Space Analogue Mission – Participant & invited researcher

Spaced Ventures – Data science advisor

Oct 2019 – Current

Jun 2020 – Current

Jul 2020 – Current

## SELECTED PUBLICATIONS

- Ghanbari, Yasser, Bloy, L., Tunc, B., Shankar, V., et al. "On characterizing population commonalities and subject variations in brain networks." Medical image analysis 38 (2017): 215-229.
- Tunç, Birkan, Shankar, V., et al. "Towards a quantified network portrait of a population." International Conference on Information Processing in Medical Imaging. Springer, Cham, 2015.
- Shankar, Varsha, et al. "A co-robotic assistant capable of object selection and search via a brain machine interface." 2013 6th International IEEE/EMBS Conference on Neural Engineering (NER). IEEE, 2013.