Prashant Meckoni

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PhD candidate in Operations Research (expected graduation Spring 2022), seeking full time positions. 9 years of industry experience in supply chain planning, consulting, and software development. Research in healthcare services, public health, and epidemiology. Skilled at mathematical modeling, large data analysis, visualization, writing, presenting.

Education

2015–Ongoing **University of Massachusetts, Amherst**, *PhD Ind Eng & Operations Research*, Amherst, MA.
2004–2006 **National Institute of Industrial Engineering**, *MS Industrial Engineering*, Mumbai, India.
1999–2003 **University of Mumbai**, *BS Computer Science (Information Technology)*, Mumbai, India.

Awards & Achievements

May 2019 **Best Paper Award**, *2019 IISE Annual Conference & Expo*.
Mar 2007 **Grade A in Basic Mountaineering Course**, *Himalayan Mountaineering Institute*, Darjeeling, India.
2004 **All India Rank of 58**, *Graduate Aptitude Test for Engineering*.

Research & Work Experience

2015–ongoing **PhD Researcher**, *University of Massachusetts Amherst*, Amherst, MA US.
- Researched healthcare services and epidemiology to reduce inequity in access to healthcare for US and for low-and-middle-income countries.
- Conducted original research on six projects using mathematical modeling, linear programming, non-linear programming, simulations, simulation based optimization, markov chains, regression, among others.

2016–2020 **Teaching Assistant & Instructor**, *University of Massachusetts Amherst*, Amherst, MA US.
- Taught multiple quantitative courses and freshmen transition-to-college courses while working on PhD thesis.
- Created teaching pedagogy, teaching material, slides and evaluation material. Mentored students of all levels.

2011–14 **Manager Planning & Logistics**, *Wipro Consumer Care*, Bangalore, India.
- Handled production planning, capacity planning, distribution planning and finished goods inventory control.
- Introduced processes for advanced warning of expected inventory problems — raw material and finished goods.
- Mentored brand managers for capturing market demand changes from data and analysis tools.

2010–11 **Consultant**, *Aqua Management Consulting Group*, Mumbai, India.
Project Experience: Steel & Power Company.
- Created new "to-be" procurement process to improve efficiencies across multiple indices and provided comparison with "as-is" process from source-to-contract & procure-to-pay.
- Deployed ad-hoc spend analytics tool and introduced processes for e-procurement.
- Developed MRO Inventory planning process; reducing inventory value by 10% while improving service levels.

2007–08 **Production Planning Manager**, *Britannia Industries*, New Delhi, India.
- Managed production planning, distribution planning for North India.
- Analyzed case-fill & line-fill rates and took corrective and preventive actions to maximize customer service levels.
- Formalized demand planning with sales team to balance capacity constraints.

2008–10 **Founder (Startup)**, *Zenigent Systems*, Mumbai, India.
2006–07 **Business Analyst**, *Infosys Technologies*, Hyderabad, India.
2003–04 **Programmer Trainee**, *Mastek Ltd*, Mumbai, India.

Internships & Co-ops

Feb–May 2006 **McKinsey Knowledge Center Pvt Ltd**, New Delhi, India.
Apr–Jun 2005 **AgroTech Foods Ltd (Conagra Brands)**, Hyderabad, India.
Aug 02–Jun 03 **IIT Bombay**, Mumbai, India.

Publications & Conferences

- **Meckoni, P.** & Balasubramanian, H., 2021. "Simple Heuristics for Near-Optimal Appointment Scheduling in Primary Care.", *MedInfo Conference Proceedings 2021*, [virtual]. (Accepted)
- **Meckoni, P.**, Balasubramanian, H., 2020. "Modeling Sequence and Timing of Patients Clinical Encounters." *INFORMS Annual Meeting 2020*, [virtual].
- **Meckoni, P.**, Balasubramanian, H., 2019. "Appointment Scheduling in Primary Care with Recurring Visits." *INFORMS Annual Meeting 2019*, Seattle, WA.
- **Meckoni, P.**, Balasubramanian, H., 2019. "Lower Bound Capacity for Medical Appointment Scheduling with Patient Flexibility." *INFORMS Healthcare 2019*, Cambridge, MA.
- **Meckoni, P.** & Balasubramanian, H., 2019. "Appointment Scheduling in Primary Care with Recurring Visits.", *IIE Annual Conference Proceedings*, pp. 1614-1619.
- Gopalappa, C., Guo, J., **Meckoni, P.**, Munkhbat, B., Pretorius, C., Lauer, J., Ilbawi, A., Bertram, M., 2018. "A Two-Step Markov Processes Approach for Parameterization of Cancer State-Transition Models for Low-and-Middle-Income Countries." *Medical Decision Making* 38, pp 520–530.

Professional Service & Outreach

July 2019 **Session Chair**, *INFORMS Healthcare 2019*, Cambridge MA.

May 2019 **Session Chair**, *2019 IISE Annual Conference & Expo Healthcare Track*, Orlando FL.

Fall 2005 **OR For All**, *Operations Research outreach to Small & Medium Enterprises*, NITIE Mumbai.

2004–06 **PR & Media Committee**, NITIE Mumbai.

Software

Languages R, Python, Java, Matlab, AMPL, SQL, bash

Libraries ggplot2, tidyverse, data.table, numpy, pandas, scikit-learn

Tools Emacs, Git, GitHub, MS Office, LaTeX

Graduate Courses

- Deterministic Models
- Stochastic Models
- Reinforcement Learning
- Statistics
- Empirical Research Methods
- Optimization for Comp Sci
- Machine Learning
- Economic Decision Making
- Linear Programming
- Non-Linear Programming
- Multi-Criteria Decision Making
- Statistical Computing

- Supply Chain Management
- Production Planning
- Logistics Management
- Supply Chain Strategy
- Organizational Behavior
- Economics
- Project Management
- Marketing Management
- Investing Analysis and Portfolio Management
- Business Intelligence
- Cost and Works Accounting