Jigar Patel

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Research Interests

Revenue Management, Game Theory, Product Development, Supply Chain Management

Education

2008–Present	**PhD in Operations Management**, *NYU Stern School of Business*, New York, NY.
	MPhil in Operations Management, *NYU Stern School of Business*, New York, NY.
2005–2008	**BSc (Hons) Mathematics and Comp. Sci.**, *Chennai Mathematical Institute*, Chennai, India.

Grants, Honors

NYU-Stern doctoral fellowship

Chennai Mathematical Institute undergraduate fellowship

State topper for the Indian National Mathematical Olympiad

Several prizes in various state and national level mathematics competitions

Relevant Graduate-level Coursework

Linear programming, Convex optimization, Dynamic programming and stochastic control, Game theory, Submodular optimization, Service operations, Functional analysis, Advanced algorithms, Theory of computation, Statistics from game theoretic point of view, Advanced topics in operations management, Supply chain management

Teaching

Fall 2011	**NYU Stern School of Business**, New York. Instructor for the undergraduate core class Operations Management. Full responsibility of the class of 40 students: designing the course material, lectures, assignments, exams, giving final grades. Overall teaching rating: 5.6/7.0
2011-Now	**NYU Stern School of Business**, New York. Teaching Fellow for two executive MBA and three MBA core Operations Management courses. Duties included conducting recitations, grading, holding officer hours etc.
Fall 2013	**NYU Stern School of Business**, New York. Teaching Fellow for the Decision Models class. The class covers decision tree analysis, stochastic optimization, simulation, and non-linear optimization using Spreadsheet modeling.

Research Experience

NYU Stern School of Business, New York,
Optimizing product launches in the presence of strategic consumers
With I. Lobel, G. Vulcano, and J. Zhang. Second round in Management Science.

Product launches are the most crucial decisions for the firm that designs and develops a technology product and its successive generations. The firm's revenue heavily depends upon consumers' purchasing behavior. Recent evidence suggests that consumers hold back their purchases in the anticipation of an upcoming product launch. This strategic behavior crucially drives the success of the product for entire life cycle. Game theoretic model for this consumers-firm interaction is analyzed for the scenarios where the firm gives different information about their product launch strategy in the market.

NYU Stern School of Business, New York,
Effort-driven innovation management under competition
With R. Caldentey. Working paper.

The innovation management is a major strategic decision for the firms. The firm's innovation output is proportioal to its investment/effort decisions. Our model considers the stochastic innovation frontier in which the innovation intensity is proportional to the effort put by the firm. We address the question of how the firm should manage their efforts and in turn affect the innovation frontier when there are other firms competing for the market share.

Summer 2006, **Tata Institute of Fundamental Research (TIFR)**, Mumbai,
2007 *Research intern with Prof. Vivek Borkar.*

Project was aimed to have better understanding of Transmission Control Protocol (TCP) by viewing the analogy between inventory control models and transmission rate control done by TCP; using the methodology of vector space optimization and stochastic modelling

Talks, Conference Acceptance

Optimizing product launches in the presence of strategic consumers

Oct. 2013 INFORMS annual conference, Minneapolis, Minnesota
July 2013 MSOM Conference, Fontainebleau, France
May 2013 TADC Conference at London Business School, London, England
Nov. 2012 Seminar talk at the Indian Institute of Technology-Bombay, Mumbai, India
Oct. 2012 INFORMS annual conference, Phoenix, Arizona

Workshops

Winter 2007 **Institute of Financial Management and Research (IFMR)**, Chennai,
Winter Conference.

Summer 2006 **Tata Institute of Fundamental Research (TIFR)**, Mumbai,
Workshop on random graphs.

Computer Skills

Matlab, CPLEX, C++, Haskell

Languages

Fluent **English, Hindi, Gujarati**
Basic **Sanskrit**

Personal Interests

Volleyball, Painting, Calligraphy