The PhD program in the department of Information and Decision Sciences is among the top-ranked programs in the country. The University of Minnesota was one of the first schools to establish a doctoral program in management information systems and remains a top-five leader in the study of MIS. It is recognized worldwide for shaping the field. Factors contributing to this recognition are:

- Defined relevant discipline areas through research, writing, and editorial contributions in major academic and practitioner outlets
- Innovations in curriculum
- Number and quality of our graduates
- Faculty leadership in professional societies and journals
- Developed major organizational links between faculty and practitioners

Our faculty are focused on conducting theoretical and empirical research that addresses the role, impact, and development of IT innovations from a business perspective in business process, organizational, and market contexts. This provides a wealth of research opportunities for faculty and doctoral students! For more information about this program visit: [z.umn.edu/CarlsonPhDIDSc](http://z.umn.edu/CarlsonPhDIDSc)

### Curriculum & Courses

Students take a minimum of 40 credits of coursework including 15 credits of IDSc PhD seminars and 16 credits of research methodology coursework and supporting fields courses. Required PhD seminars include IDSc 8511, 8521, 8531, 8541, and 8721, with additional elective department seminars available covering topics such as social media, data mining and personalization. Methodology courses can include regression, experimental design, multivariate statistics, econometrics, microeconomics, game theory, data mining, business intelligence, etc.

**IDSc PhD Seminars Offered:**

- IDSc 8511: Conceptual Topics and Research Methods in IDSc
- IDSc 8521: Information System Development
- IDSc 8531: Organizational Theory and Research in Information Systems
- IDSc 8541: Intro to Economics of Information Systems
- IDSc 8721: Behavioral Decision Theory
- IDSc 8801: Special Topics

### Information & Decision Sciences PhD Coordinator

**De Liu**  
Associate Professor  
*PhD, University of Texas - Austin*

**Areas of Interest:**  
Auction and market mechanisms, knowledge and social networks, gamification and digital gaming

### Admissions Statistics (Fall 2016)

- **40** Applications  
- **2** Acceptances  
- **14** Program size (Average age in program)  
- **1300** Average GRE (before August 2011)  
- **322** Average GRE (after August 2011)

Average GMAT: **725**
Information and Decision Sciences Faculty

Panagiotis Adamopoulos
Assistant Professor
PhD, New York University
Areas of Interest: Data science, machine learning, econometrics and experimental research designs in the areas of recommender systems, e-business, social media, and e-learning

Gediminas Adomavicius
Professor and Carolyn I. Anderson Professor in Business Education Excellence
PhD, New York University
Areas of Interest: Personalization technologies and recommender systems, knowledge discovery and data mining, electronic market mechanisms

Ravi Bapna
Professor and Curtis L. Carlson Chair in Business Analytics and Information Systems; Academic Director, Carlson Analytics Lab; Program Director, Master of Business Analytics
PhD, University of Connecticut
Areas of Interest: Personalization technologies and data mining, electronic markets

Sofia Bapna
Assistant Professor
PhD, University of Minnesota
Areas of Interest: Strategies used by entrepreneurial ventures in digital contexts such as equity fundraising and online social networks, to influence their legitimacy and to acquire resources

Gordon Burtch
Assistant Professor
PhD, Temple University
Areas of Interest: The economics of information systems, with a particular focus on the drivers and implications of participant behavior in marketplaces that incorporate social media, crowdsourcing and user generated content

Jason Chan Choon Fei
Assistant Professor
PhD, New York University
Areas of Interest: Social and economic impacts of the internet, health IT and economics; social media, online advertising, and e-commerce

Shawn Curley
Department Chair; Professor, Director of Graduate Studies and PhD Program Director
PhD, University of Michigan
Areas of Interest: Decision and judgment processes under uncertainty, belief processing, practical reasoning

Alok Gupta
Associate Dean of Faculty and Research; Professor and Curtis L. Carlson Chair of Information Management
PhD, University of Texas-Austin
Areas of Interest: Economic evaluation of electronic commerce, information economics, computational mechanism design, online auctions and mercantile processes, network externalities and pricing, data communication and computer networks, real-time mechanisms

Edward McFowland
Assistant Professor
PhD, Carnegie Mellon University
Areas of Interest: Large-scale statistical machine learning, computational social science, data science, and anomalous pattern detection

Gautam Ray
Associate Professor
PhD, Ohio State University
Areas of Interest: Electronic markets, e-commerce, search costs and market behavior, impact of IT on organizational structure and performance, knowledge sharing

Yuqing (Ching) Ren
Associate Professor
PhD, Carnegie Mellon University
Areas of Interest: Online communities, distributed collaboration, knowledge management, computational modeling of groups and organizations, social networks, health informatics

Soumya Sen
Assistant Professor
University of Pennsylvania, The Wharton School
Areas of Interest: Network economics, e-commerce platforms, social networks, sustainability methods: analytical models in microeconomics, optimization, marketing, empirical studies and consumer trials

Mani Subramani
Associate Professor
PhD, Boston University
Areas of Interest: Term knowledge management, IT outsourcing, IT governance, interorganizational information systems, role of technology in leveraging intangible assets

Akhmed Umyarov
Assistant Professor
PhD, New York University
Areas of Interest: Personalization, quantitative modeling of recommender systems, networks effects in e-commerce applications