

INFORMATION SCIENCE (GRADUATE FIELD)

Program Website (<http://infosci.cornell.edu/>)

Field Description

Information Science is an interdisciplinary program within the Faculty of Computing and Information Science. It brings together faculty, researchers and students who share an interest in studying digital information.

Information Science examines information systems in their social, cultural, economic, historical, legal, and political contexts. Computer science is an important part of the program, but the emphasis is on systems and their use, rather than on the technologies that underlie them.

Information Systems draws from Computer Science and Operations Research; Human Computer Interaction from Communication, Psychology, and Cognitive Studies; Social Studies of Computing from Science & Technology Studies, Law, and Economics, with many others.

The Ph.D. program has been approved by the Education Department in the State of New York.

The Information Science program is home to several large research groups, including the Human-Computer Interaction group, digital libraries research, and the ePrint arXiv.

Data and Statistics

- Professional Master's Program Statistics (<https://gradschool.cornell.edu/about/program-metrics-assessments-and-outcomes/professional-masters-program-statistics/?SelectGradField=9A>)
- Doctoral Program Statistics (<https://gradschool.cornell.edu/about/program-metrics-assessments-and-outcomes/doctoral-program-statistics/?SelectGradField=9A>)

Field Manual

- Manual (<https://infosci.cornell.edu/phd/current-phds/phd-student-handbook/>)

Subject and Degrees

Information Science

- Information Science (ISCI-MPS) (<https://catalog.cornell.edu/programs/information-science-isci-mps/>)
- Information Science (PhD) (<https://catalog.cornell.edu/programs/information-science-phd/>)

Concentrations by Subject

Information Science

- cognition
- human computer interaction
- information science
- information systems
- social aspects of information

Faculty

Shiri Azenkot (<http://infosci.cornell.edu/content/azenkot/>)

- **Campus:** Cornell Tech (NYC)
- **Concentrations:** *Information Science*: human computer interaction
- **Research Interests:** human-computer interaction and accessibility

Solon Barocas (<http://infosci.cornell.edu/content/barocas/>)

- **Campus:** Ithaca - (Minor Member)
- **Concentrations:** *Information Science*: information systems; social aspects of information
- **Research Interests:** information technology policy, fairness, accountability and transparency in machine learning, privacy

Natalie N. Bazarova (<http://infosci.cornell.edu/content/bazarova/>)

- **Campus:** Ithaca
- **Concentrations:** *Information Science*: human computer interaction; social aspects of information
- **Research Interests:** personal relationships and technology, self-disclosure and privacy in social media, group, culture, and language

Lawrence Edward Blume (<http://infosci.cornell.edu/content/blume/>)

- **Campus:** Ithaca
- **Concentrations:** *Information Science*: social aspects of information
- **Research Interests:** game theory; decision theory; theory of markets

Claire T Cardie (<http://infosci.cornell.edu/content/cardie/>)

- **Campus:** Ithaca
- **Concentrations:** *Information Science*: information systems
- **Research Interests:** natural language processing, artificial intelligence

Cristobal Cheyre Forestier (<http://infosci.cornell.edu/content/cheyre/>)

- **Campus:** Ithaca - (Minor Member)
- **Concentrations:** *Information Science*: information science; social aspects of information
- **Research Interests:** data science, computational social science, critical data studies, economics and information

Tanzeem Choudhury (<http://infosci.cornell.edu/content/choudhury/>)

- **Campus:** Ithaca
- **Concentrations:** *Information Science*: human computer interaction
- **Research Interests:** developing machine learning techniques for systems that can reason about human activities, interactions, and social networks in everyday environments

Morten H Christiansen (<http://infosci.cornell.edu/content/christiansen/>)

- **Campus:** Ithaca
- **Concentrations:** *Information Science*: cognition; information systems
- **Research Interests:** evolution, acquisition and processing of language

Christopher Paul Csikszentmihalyi (<http://infosci.cornell.edu/content/csikszentmihalyi/>)

- **Campus:** Ithaca
- **Concentrations:** *Information Science:* cognition; information science; information systems; social aspects of information
- **Research Interests:** Information for Accountability, Social and Environmental Justice, and activism, Information and Art and Design Practice

Cristian Danescu-Niculescu-Mizil (<http://infosci.cornell.edu/content/danescu-niculescu-mizil/>)

- **Campus:** Ithaca
- **Concentrations:** *Information Science:* social aspects of information
- **Research Interests:** Computational Social Science, Social Computing, Computational Linguistics, Natural Language Processing

Abe Davis (<http://www.abedavis.com/>)

- **Campus:** Ithaca
- **Concentrations:** *Information Science:* human computer interaction; information science
- **Research Interests:** AI, Graphics, Human Interaction, Vision, Human Perception

Nicola Lee Dell (<http://infosci.cornell.edu/content/dell/>)

- **Campus:** Ithaca
- **Concentrations:** *Information Science:* human computer interaction; social aspects of information
- **Research Interests:** human-computer interaction, information and communication technologies for development, design for underserved populations

Moon Duchin (<http://publicpolicy.cornell.edu/people/moon-duchin/>)

- **Campus:** Ithaca
- **Concentrations:** *Information Science:* information science; social aspects of information
- **Research Interests:** Mechanisms for democracy, graph algorithms, voting law and policy, mapping and redistricting

David Alan Easley (<http://infosci.cornell.edu/content/easley/>)

- **Campus:** Ithaca
- **Concentrations:** *Information Science:* social aspects of information
- **Research Interests:** economic theory; decision theory; finance

Deborah Estrin (<http://infosci.cornell.edu/content/estrin/>)

- **Campus:** Cornell Tech (NYC)
- **Concentrations:** *Information Science:* human computer interaction; information systems
- **Research Interests:** Mobile health, networked sensing,

John N. Foster (<http://www.cs.cornell.edu/~jnfoster/>)

- **Campus:** Ithaca
- **Concentrations:** *Information Science:* cognition; information science; information systems
- **Research Interests:** intersection between programming languages, databases and formal methods

Susan R. Fussell (<http://infosci.cornell.edu/content/fussell/>)

- **Campus:** Ithaca
- **Concentrations:** *Information Science:* human computer interaction
- **Research Interests:** computer-mediated communication; computer-supported collaborative work; social computing; human-robot and human-agent communication

Nikhil Garg (<http://tech.cornell.edu/people/nikhil-garg/>)

- **Campus:** Ithaca
- **Concentrations:** *Information Science:* information science; information systems; social aspects of information
- **Research Interests:** Intersection of computer science, economics, and operations—on the application of algorithms, data science, and mechanism design to the study of democracy, markets, and societal systems at large.

Paul H. Ginsparg (<http://infosci.cornell.edu/content/ginsparg/>)

- **Campus:** Ithaca
- **Concentrations:** *Information Science:* social aspects of information
- **Research Interests:** Digital knowledge networks

Carla P Gomes (<http://infosci.cornell.edu/content/gomes/>)

- **Campus:** Ithaca
- **Concentrations:** *Information Science:* information systems
- **Research Interests:** integration of artificial intelligence and operations research techniques for combinatorial optimization

Keith E. Green (<http://www.keithevangreen.com/>)

- **Campus:** Ithaca
- **Concentrations:** *Information Science:* human computer interaction; information science; social aspects of information
- **Research Interests:** the design, prototyping, and evaluation of interactive and intelligent environments (architectural robotics) augmenting the healthcare, creativity, learning and literacy, working life, disaster relief, and mass urbanization of an increasingly digital society.

James Grimmelmann (http://www.lawschool.cornell.edu/faculty/bio_james_grimmelmann.cfm)

- **Campus:** Cornell ILR NYC
- **Concentrations:** *Information Science:* information science; social aspects of information
- **Research Interests:** Law

Francois V. Guimbretiere (<http://infosci.cornell.edu/content/guimbreti%C3%A8re/>)

- **Campus:** Ithaca
- **Concentrations:** *Information Science:* human computer interaction; information systems
- **Research Interests:** pen computing (paper and digital surfaces); information appliances to support reading; empirical evaluation of computer interface; information visualization

Joseph Yehuda Halpern (<http://infosci.cornell.edu/content/halpern/>)

- **Campus:** Ithaca
- **Concentrations:** *Information Science:* information systems

- **Research Interests:** reasoning about knowledge and uncertainty, decision theory, game theory, fault-tolerant distributed computing, causality, and security

Haym Hirsh (<http://www.cs.cornell.edu/~hirsh/>)

- **Campus:** Ithaca
- **Concentrations:** *Information Science:* human computer interaction; information science; information systems
- **Research Interests:** artificial intelligence, collective intelligence, crowdsourcing, data mining, human computation, information retrieval, machine learning

Will Hobbs (<http://www.human.cornell.edu/people/wrh75/>)

- **Campus:** Ithaca
- **Concentrations:** *Information Science:* information science; social aspects of information
- **Research Interests:** social and political affects of government actions, health and resilience in social networks, low-dimensional representation of social interaction and language

Guy Hoffman (<http://infosci.cornell.edu/content/hoffman/>)

- **Campus:** Ithaca
- **Concentrations:** *Information Science:* cognition; human computer interaction; social aspects of information

Lee Humphreys (<http://infosci.cornell.edu/content/umphreys/>)

- **Campus:** Ithaca
- **Concentrations:** *Information Science:* human computer interaction; social aspects of information
- **Research Interests:** social uses and effects of communication technology; mobile technology, communication and culture; mobile social networks; new media and society

Steven Jackson (<http://infosci.cornell.edu/content/jackson/>)

- **Campus:** Ithaca
- **Concentrations:** *Information Science:* human computer interaction; social aspects of information
- **Research Interests:** governance and information technology; information infrastructure in the sciences; politics and policy

Thorsten Joachims (<http://infosci.cornell.edu/content/joachims/>)

- **Campus:** Ithaca
- **Concentrations:** *Information Science:* information systems
- **Research Interests:** machine learning, information retrieval

Wendy Guang-wen Ju (<http://infosci.cornell.edu/content/ju/>)

- **Campus:** Ithaca
- **Concentrations:** *Information Science:* human computer interaction
- **Research Interests:** interaction with automation, interaction design research, human robot interaction, automotive interaction design

Malte Jung (<http://infosci.cornell.edu/content/jung/>)

- **Campus:** Ithaca
- **Concentrations:** *Information Science:* human computer interaction; social aspects of information

- **Research Interests:** Computer-supported cooperative work, teamwork, emotion, human-robot interaction, design

Saleh Kalantari (<http://www.human.cornell.edu/people/sk3268/>)

- **Campus:** Ithaca
- **Concentrations:** *Information Science:* cognition; human computer interaction; information science; social aspects of information
- **Research Interests:** Post-occupancy evaluation, technology, facility management.

Cindy Hsin-Liu Kao (<http://www.human.cornell.edu/people/hk932/>)

- **Campus:** Ithaca
- **Concentrations:** *Information Science:* human computer interaction; information science
- **Research Interests:** intersections of Human Computer Interaction, Ubiquitous & Wearable Computing, Digital Fabrication, Material Innovation, Fashion Design and Body art

René Kizilcec (<http://infosci.cornell.edu/content/kizilcec/>)

- **Campus:** Ithaca
- **Concentrations:** *Information Science:* information science; social aspects of information
- **Research Interests:** social and cultural psychology in context of technology, social identity threat, self-regulation individuals experience and engagement and performance in digital environment

Jon M Kleinberg (<http://infosci.cornell.edu/content/kleinberg/>)

- **Campus:** Ithaca
- **Concentrations:** *Information Science:* information systems
- **Research Interests:** information science, algorithms, parallel computing theory

Robert D. Kleinberg (<http://infosci.cornell.edu/content/kleinberg-0/>)

- **Campus:** Ithaca
- **Concentrations:** *Information Science:* information systems
- **Research Interests:** Algorithmic aspects of learning and game theory, with applications to electronic commerce, online social systems, and information systems.

Allison Koenecke (<http://koenecke.infosci.cornell.edu/>)

- **Campus:** Ithaca
- **Concentrations:** *Information Science:* information science; information systems; social aspects of information
- **Research Interests:** Computational social science, algorithmic fairness, causal inference, public health

Lillian Jane Lee (<http://infosci.cornell.edu/content/lee/>)

- **Campus:** Ithaca
- **Concentrations:** *Information Science:* information systems
- **Research Interests:** natural language processing; machine learning

Gilly Leshed (<http://infosci.cornell.edu/content/leshed/>)

- **Campus:** Ithaca
- **Concentrations:** *Information Science:* human computer interaction; social aspects of information

- **Research Interests:** Human computer interaction, computer supported cooperative work

Karen Levy (<http://sociology.cornell.edu/karen-levy/>)

- **Campus:** Ithaca
- **Concentrations:** *Information Science*: social aspects of information
- **Research Interests:** surveillance and monitoring, sociology of law, technology and sociotechnical systems

Michael Walton Macy (<http://sociology.cornell.edu/michael-macy/>)

- **Campus:** Ithaca
- **Concentrations:** *Information Science*: social aspects of information
- **Research Interests:** collective action; emergence of norms; networks and cascades; game theory; agent-based modeling

Drew Margolin (<http://infosci.cornell.edu/content/margolin/>)

- **Campus:** Ithaca
- **Concentrations:** *Information Science*: information science
- **Research Interests:** social media and the internet

J. Nathan Matias (<http://cals.cornell.edu/dr-j-nathan-matias/>)

- **Campus:** Ithaca
- **Concentrations:** *Information Science*: human computer interaction; information science; information systems; social aspects of information
- **Research Interests:** digital governance, behavior changes in groups and networks shaped by algorithms, pervasive experimentation in society with a special focus on citizen behavioral science

David Mimno (<http://infosci.cornell.edu/content/mimno/>)

- **Campus:** Ithaca
- **Concentrations:** *Information Science*: information systems
- **Research Interests:** Machine learning, text mining, digital humanities

Mor Naaman (<http://infosci.cornell.edu/content/naaman/>)

- **Campus:** Ithaca
- **Concentrations:** *Information Science*: human computer interaction; information systems; social aspects of information
- **Research Interests:** Social media, data mining, human-computer interaction, computational social science, interactive systems

Rajalakshmi Nandakumar (<http://infosci.cornell.edu/content/nandakumar/>)

- **Campus:** Ithaca
- **Concentrations:** *Information Science*: cognition; human computer interaction; information science; information systems
- **Research Interests:** Data Science, HCI, Interface Design and Ubiquitous Computing

Helen Nissenbaum (<http://infosci.cornell.edu/content/nissenbaum/>)

- **Campus:** Cornell Tech (NYC)
- **Concentrations:** *Information Science*: human computer interaction; information science; social aspects of information

- **Research Interests:** privacy and ethical and political values in information technology and digital media

Tapan Suryakant Parikh (<http://infosci.cornell.edu/content/parikh/>)

- **Campus:** Ithaca
- **Concentrations:** *Information Science*: human computer interaction; information systems; social aspects of information
- **Research Interests:** design and evaluation of information technologies for education, governance, and international development

Emma Pierson (<http://www.dli.tech.cornell.edu/members/Pierson/>)

- **Campus:** Cornell Tech (NYC)
- **Concentrations:** *Information Science*: information science; information systems
- **Research Interests:** Data Science, Machine Learning, Healthcare, Inequality

Mats Rooth (<http://infosci.cornell.edu/content/rooth/>)

- **Campus:** Ithaca
- **Concentrations:** *Information Science*: cognition; information systems
- **Research Interests:** computational linguistics, natural language semantics (ellipsis, lexicon induction, parse forest algorithm, statistical parsing)

Thijs Jan Roumen (<http://infosci.cornell.edu/content/roumen/>)

- **Campus:** Ithaca
- **Concentrations:** *Information Science*: human computer interaction
- **Research Interests:** Human Computer Interaction

Jeff Rzeszutarski (<http://infosci.cornell.edu/content/rzeszutarski/>)

- **Campus:** Ithaca
- **Concentrations:** *Information Science*: human computer interaction
- **Research Interests:** data visualization, crowdsourcing, and social computing

Fred Barry Schneider (<http://infosci.cornell.edu/content/schneider/>)

- **Campus:** Ithaca
- **Concentrations:** *Information Science*: information systems
- **Research Interests:** fault-tolerance and security

Phoebe J Sengers (<http://infosci.cornell.edu/content/sengers/>)

- **Campus:** Ithaca
- **Concentrations:** *Information Science*: human computer interaction; social aspects of information
- **Research Interests:** human-computer interaction; sustainable design; critical theory; critical technical practice; consumer culture

David B Shmoys (<http://infosci.cornell.edu/content/shmoys/>)

- **Campus:** Ithaca
- **Concentrations:** *Information Science*: information science

Rebecca Slayton (<http://sts.cornell.edu/rebecca-slayton/>)

- **Campus:** Ithaca
- **Concentrations:** *Information Science*: information science; social aspects of information

Daniel Susser (<http://infosci.cornell.edu/people/faculty/?combine=susser>)

- **Campus:** Ithaca
- **Concentrations:** *Information Science*: social aspects of information
- **Research Interests:** Ethics, Law, and Policy Critical Data Studies Technology and Equity

Eva Tardos (<http://infosci.cornell.edu/content/tardos/>)

- **Campus:** Ithaca
- **Concentrations:** *Information Science*: information systems
- **Research Interests:** design and analysis of algorithms, algorithmic game theory

Angelique Marie Taylor (<http://tech.cornell.edu/people/angelique-taylor/>)

- **Campus:** Cornell Tech (NYC)
- **Concentrations:** *Information Science*: information science; information systems; social aspects of information
- **Research Interests:** Computer vision, robotics, healthcare, and artificial intelligence

Aditya Vashistha (<http://adityavashistha.com/>)

- **Campus:** Ithaca
- **Concentrations:** *Information Science*: human computer interaction; information science; social aspects of information
- **Research Interests:** computing for development and accessibility HCI, social computing

Gili Vidan (<http://infosci.cornell.edu/content/vidan/>)

- **Campus:** Ithaca
- **Concentrations:** *Information Science*: information science; information systems; social aspects of information
- **Research Interests:** digital information technologies, changing notions of public trust and democratic governance, and narratives of crisis and future-making in the U.S.

Fei Wang (<http://weill.cornell.edu/faculty-highlight/fei-wang-phd/>)

- **Campus:** Ithaca
- **Concentrations:** *Information Science*: information science; information systems
- **Research Interests:** data mining, machine learning, health data science

Matthew Wilkens (<http://infosci.cornell.edu/content/wilkens/>)

- **Campus:** Ithaca
- **Concentrations:** *Information Science*: cognition; information science; information systems; social aspects of information
- **Research Interests:** Computational Social Science, Critical Data Studies, Data Science, Natural Language

David Paul Williamson (<http://infosci.cornell.edu/content/williamson/>)

- **Campus:** Ithaca
- **Concentrations:** *Information Science*: information systems
- **Research Interests:** combinatorial optimization, Web search and structure

Andrea Stevenson Won (<http://infosci.cornell.edu/content/stevenson-won/>)

- **Campus:** Ithaca
- **Concentrations:** *Information Science*: human computer interaction; information science
- **Research Interests:** human computer interaction

Qian Yang (<http://infosci.cornell.edu/content/yang-0/>)

- **Campus:** Ithaca
- **Concentrations:** *Information Science*: human computer interaction; information science; information systems; social aspects of information
- **Research Interests:** Data Science, Human Computer Interaction, Interface Design and Ubiquitous Computing

Yian Yin (<http://infosci.cornell.edu/content/yin/>)

- **Campus:** Ithaca
- **Concentrations:** *Information Science*: information science; social aspects of information
- **Research Interests:** Computational Social Science, Data Science, Incentives and Computation as well as Network Science.

Yu Connie Yuan (<http://cals.cornell.edu/y-connie-yuan/>)

- **Campus:** Ithaca
- **Concentrations:** *Information Science*: human computer interaction
- **Research Interests:** virtual collaboration; knowledge management; social networks

Ramin Zabih (<http://infosci.cornell.edu/content/zabih/>)

- **Campus:** Cornell Tech (NYC)
- **Concentrations:** *Information Science*: information systems
- **Research Interests:** medical imaging, health information systems

Cheng Zhang (<http://infosci.cornell.edu/content/zhang-0/>)

- **Campus:** Ithaca
- **Concentrations:** *Information Science*: human computer interaction; information science
- **Research Interests:** HCI, UB computing, wearable computing, activity novel sensing and interaction, recognition

Malte Ziewitz (<http://sts.cornell.edu/malte-ziewitz/>)

- **Campus:** Ithaca
- **Concentrations:** *Information Science*: social aspects of information
- **Research Interests:** Science & technology studies; governance and accountability relations; sociology of evaluation; digital media; online reviews, ratings; information law and policy; ethnography; ethnomethodology