

DATA STORYTELLING
EXPLAINABLE AI · COMPUTING
FOR SOCIAL GOOD · NATURAL
LANGUAGE PROCESSING
HUMAN COMPUTER INTERACTION
DATA CURATION · DIGITAL
LIBRARIES · BUSINESS INTELLIGENCE
GROUP · ACADEMICS AND
DEMOGRAPHICS · CONNECT

The iSchool at Illinois



School of
Information Sciences

UNIVERSITY OF ILLINOIS URBANA-CHAMPAIGN

DATA STORYTELLING

Data storytelling means sharing compelling narratives about the meaning discovered by sophisticated data analyses. It is essential to communicating real-world value to key audiences. Faculty are developing new approaches to highlight insights otherwise hidden in large collections of data—combining the latest visualization technologies with storytelling concepts, narrative theories, and performance techniques. Data storytelling creates a bridge between the data and the audience to facilitate better informed, more impactful, data-driven decisions.

MAYBE STORIES
ARE JUST DATA
WITH A SOUL

—BRENÉ BROWN

CORPORATE VALUE

Combining data visualization with storytelling techniques and structures for more effective presentations, recruiting, and engagement efforts

SELECTED EXPERTISE

Data Analytics and Human-Centered Data

- Understanding the practical consequences of the limited quality of big data and digital traces of social and professional interactions
- Improving the rigor, reliability, and transparency of research in computational social science, human-centered data science, and scientific data

Data Storytelling Techniques

- Storytelling dynamics, applications, and narratives for disseminating information
- Troubleshooting disconnects between storyteller and audience

Data Visualization

- Analysis and visualization of spatial data, especially in 3D and 4D models that demonstrate change over time
- Actionable science, including research geared towards developing climate-change resistant crops to help resolve the gap between food supply and demand

DATA STORYTELLING

Illustration based on Ben Minard's famous infographic of the successive losses in men of the French Army in the Russian campaign 1812–1813.

SELECTED WORKSHOPS

These workshops have been offered to nonprofits, businesses, and universities. These include Prairie Rivers Network, Library UX Chicago, and at the University of Illinois, the Office of the Vice Chancellor for Institutional Advancement, College of Media, Gies Business, College of Fine and Applied Arts, Grainger Engineering, and College of Agricultural, Consumer, and Environmental Sciences.

Data Storytelling: Strategies and Structures

Storytelling Your Career

Storytelling and Narrative Structures

Storytelling Thinking for Recruiters

Storytelling Thinking for School Librarians

Exploring Endings: Story Conclusions, Resolution, and Closure

Storytelling and Advancement

RESEARCHERS

Scott Althaus

Affiliate Professor. PhD, Political Science, Northwestern University

Jana Diesner

Associate Professor and PhD Program Director
PhD, Computation, Organizations, and Society,
Carnegie Mellon University

Kate McDowell

Associate Professor. PhD, Library and Information Science, University of Illinois at Urbana-Champaign

Matt Turk

Assistant Professor. PhD, Physics, Stanford University

Kevin Trainor

Adjunct Senior Lecturer. MBA, The University of Chicago

CONTACT

Danielle Wilberg, Director of Corporate and Foundation Relations, dwilberg@illinois.edu

A WELL-TOLD STORY CAN

ELICIT A CONNECTION TO THE STORYTELLER,
LEAD TO THE RELEASE OF DOPAMINE, AND
ENGAGE THE SENSORY AND FRONTAL CORTEX

EXPLAINABLE AI



Artificial Intelligence (AI) helps us build exciting and powerful new decision-making tools at scales unimaginable just a few years ago. Unfortunately, AI systems can be so complex that the decision-making process is best described as “black box” magic. Explainable AI research at the iSchool opens up these black boxes to shed light on how decisions are actually made. Advances in Explainable AI help us avoid hidden biases and unintended consequences that can undermine effectiveness and erode trust in the organizations deploying AI solutions.

WORKING TOWARDS FAIRNESS, ACCOUNTABILITY, TRANSPARENCY, & ETHICS IN AI

CORPORATE VALUE

- Developing frameworks, algorithms, and models to analyze data bias, validity, and anomalies
- Analyzing how AI system failures impact trust in and use of those systems
- Designing intelligent interfaces that help users understand AI systems

SELECTED EXPERTISE

AI and Machine Learning

- Controlled experiments and simulations to assess attacks on social networks to improve network security, advance privacy protection systems, and develop more robust network metrics

Misconception Analysis and Consequences

- Analysis of sociotechnical systems to uncover the source of unintended consequences
- Systems design to foresee unexpected consequences (including anything from bias to errors to a bot being banned from social media)

Explaining AI to Users

- Easy-to-understand explanations of AI algorithms, especially those used to make automated decisions that affect individuals

EXPLAINABLE AI

Learning Analytics and Bias

- Development of interpretable deep learning methods design with the goal of extracting meaningful patterns from data in the realm of education

Rare Category Analysis and Data Heterogeneity

- Anomaly detection to predict fraud, etail (retail) patterns, and manufacturing production yields as well as identifying healthcare connections

Reproducibility of Scientific Research and Analyses

- Data validity and reproducibility and resolution of legal and policy barriers to disseminating reproducible research
- Analysis of scientific validation systems

Trustworthy AI

- Human trust and its influences on reliance on Autonomous Systems

72% OF EXECUTIVES REPORT THAT THEIR ORGANIZATIONS SEEK TO GAIN CUSTOMER TRUST AND CONFIDENCE BY BEING TRANSPARENT IN THEIR AI-BASED DECISIONS AND ACTIONS.

— ACCENTURE TECHNOLOGY VISION, 2018

RESEARCHERS

Masooda Bashir

Associate Professor. PhD, Psychology, Purdue University

Nigel Bosch

Assistant Professor. PhD, Computer Science, University of Notre Dame

Jana Diesner

Associate Professor and PhD Program Director. PhD, Computation, Organizations, and Society, Carnegie Mellon University

Jingrui He

Associate Professor. PhD, Machine Learning, Carnegie Mellon University

Eunice E. Santos

Professor and Dean. PhD, Computer Science, University of California, Berkeley

Michael Twidale

Professor. PhD, Computing, Lancaster University (UK)

Yang Wang

Associate Professor. PhD, Information and Computer Science, University of California, Irvine

CONTACT

Danielle Wilberg, Director of Corporate and Foundation Relations, dwilberg@illinois.edu



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COMPUTING FOR SOCIAL GOOD

Computing for Social Good (CSG) means harnessing the power of information technology to understand the impact and ramifications of data usage, ensuring positive social outcomes. Our CSG research teams see the well-being of individuals and their communities as a top priority and measure success primarily in terms of social benefit and improved circumstances. CSG projects can generate positive economic outcomes, including lower costs of public services.

PRIVACY MEANS
PEOPLE KNOW WHAT
THEY'RE SIGNING
UP FOR, IN PLAIN
LANGUAGE

—STEVE JOBS

CORPORATE VALUE

- Informing AI design, autonomous technologies, and intelligent agents in support of social good
- Help protect users' privacy and security and comply with regulations
- Designing inclusive tools to ensure access for marginalized groups and comply with ADA regulations

SELECTED EXPERTISE

Adaptive Cognition and Interaction Design (ACTION) Lab

- Technologies that promote evidence-based health programs for patients with access issues
- Educational applications and technologies supporting the development of health literacy for diverse patients

Social Computing Systems

- Socio-technical systems that address social problems and improve community well-being
- AI-based solutions to facilitate the provision of local public services, such as public safety and environmental protection

End-User Privacy and Security

- Smart Home privacy design
- Privacy and security mechanisms for people with disabilities, specifically the visually impaired



COMPUTING FOR SOCIAL GOOD

Human-Centered Data Science, Responsible Computing, and Data Mining

- Computational approaches measuring the impact of issue-focused media and providing actionable insights for stakeholders
- Natural language processing and machine learning methods to detect and evaluate the impact of publicly funded research projects on society
- Collaborating with the U.S. Coast Guard to increase awareness of humanitarian assistance and disaster relief efforts
- Data mining methods to assess the long-term impact of private foundation investments in international biodiversity conservation

EVALUATING THE IMPACT OF INFORMATION ON SOCIETY

RESEARCHERS

Jessie Chin

Assistant Professor. PhD, Educational Psychology, University of Illinois at Urbana-Champaign

Jana Diesner

Associate Professor and PhD Program Director. PhD, Computation, Organizations, and Society, Carnegie Mellon University

Yun Huang

Associate Professor. PhD, Information and Computer Science, University of California, Irvine

Eunice E. Santos

Professor and Dean. PhD, Computer Science, University of California, Berkeley

Yang Wang

Associate Professor. PhD, Information and Computer Science, University of California, Irvine

CONTACT

Danielle Wilberg, Director of Corporate and Foundation Relations, dwilberg@illinois.edu

NATURAL LANGUAGE PROCESSING (NLP)

In this age of information overload, it's important to be able to find the islands of knowledge hidden in an ocean of text. At the iSchool, our researchers use Natural Language Processing (NLP) and related methods from computational linguistics and textual analysis to create tools that guide users to make unexpected connections between disparate sources and analyze the potential impact on information users. NLP projects also help computers understand what users want and how they are feeling about it, in order to improve interactions between people and digital devices.

NLP: TURNING BIG DATA INTO SMART DATA

CORPORATE VALUE

- Building tools that support the analysis of text at the rate of a quintillion calculations per second
- Extracting and synthesizing evidence from a wide variety of texts to accelerate scientific discovery
- Developing processes and resources to understand impacts and trends in data

SELECTED EXPERTISE

Impact Assessment

- Developing processes to understand how customer reviews impact people's knowledge, behavior, and feelings, and how social media posts impact people's values and principles
- Identifying secondary uses of research findings
- Discovering trends through data accessed in large digital libraries, including science and detective fiction to describe shifting assumptions about gender in literature from 1780 to present

Knowledge Discovery & Synthesizing Text

- Improving the quality of relationships in text extraction systems for biomedical literature—i.e., connecting terms like “alopecia” and “hair loss”
- Providing efficient access to biomedical knowledge to facilitate the use of data to support clinical decision making and pharmaceutical research

NATURAL LANGUAGE PROCESSING (NLP)

Knowledge Discovery & Synthesizing Text

- Extracting claim data (including key words like “better” and “worse”) from scientific literature, for systematic reviews and risk assessments
- Resolving contradictions and redundancies
- Developing approaches to linked data to manage scientific evidence
- Extracting arguments from scientific texts through social media mining of opinion/argument
- Synthesizing text, such as consumer comments, government consultations, etc.

Halil Kilicoglu

Associate Professor. PhD, Computer Science, Concordia University

Jana Diesner

Associate Professor and PhD Program Director. PhD, Computation, Organizations, and Society, Carnegie Mellon University

Jodi Schneider

Associate Professor. PhD, Informatics, National University of Ireland, Galway

Vetle Torvik

Associate Professor. PhD, Engineering Science, Louisiana State University

RESEARCHERS

Catherine Blake

Associate Professor, MS/IM Program Director, and Associate Director, Center for Informatics Research in Science and Scholarship. PhD, Information and Computer Science, University of California, Irvine

CONTACT

Danielle Wilberg, Director of Corporate and Foundation Relations, dwilberg@illinois.edu

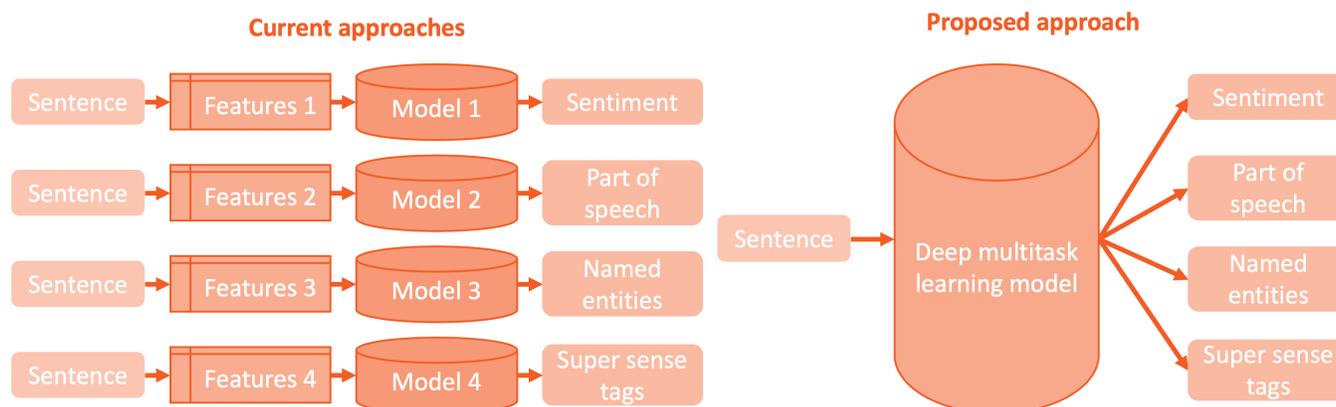


Image courtesy of Shubhanshu Mishra and Jana Diesner

HCI & UX

Human computer interaction (HCI) and user experience (UX) research together provide a systematic way to understand and improve the user experience of computing and institutional technologies. Every day, users experience computer and organizational interfaces in relation to areas such as travel, finance, retail, education, and health. As a result, interface and experience failures are both frustrating to users and costly to organizations. Improvements in HCI/UX enable deeper engagements and improve efficiencies. HCI/UX research at the iSchool is human centered and has direct application in every single marketplace and most internal processes.

AS FAR AS THE
CUSTOMER IS
CONCERNED, THE
INTERFACE IS THE
PRODUCT

—JEFF RASKIN

CORPORATE VALUE

- Designing, implementing, and evaluating computing systems that effectively engage people.
- Building accessible technologies to support self-paced learning and improve students' interactions with learning technologies.
- Developing systems to improve delivery of social support systems and public services.

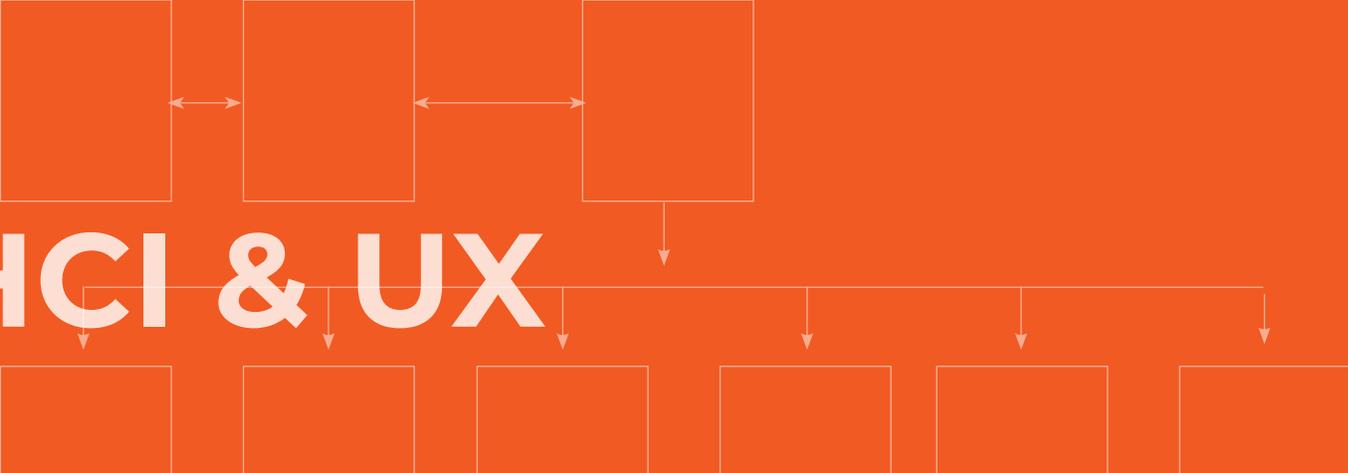
SELECTED EXPERTISE

Interface Usability Analysis

- Improving the usability and usefulness of systems by understanding how users learn new technologies and respond to struggles with design features
- Improving workplace productivity by uncovering and fixing blocks in the workflow caused by confusing technology design

Personalized Education

- Adapting interfaces based on automatically detected alertness and attention of users
- Improving interfaces for tasks where maintaining attention is important



HCI & UX

Health Information Delivery

- Delivering effective and sustained health interventions; helping to translate evidence-based health interventions into practices
- Designing systems to promote delivery of health-care services and information to aging adults, remote patients, and adults with low health literacy

Virtual Agents and Mobile Systems Research

- Applying HCI research methods to advance fundamental public services
- Studying how virtual agents can be used to innovate and scale mental health services
- Designing crowdsourcing and location-based sensing systems that allow users to co-create knowledge about their communities

Empowering Users

- Designing intelligent computing tools to empower marginalized individuals and to create easier access to electronic resources
- Designing transparency and control tools for real-world applications (e.g., smart homes, online behavioral advertising, unmanned aerial vehicles)
- Developing digital interventions that nudge user behaviors and decision-making to foster a more positive online environment

RESEARCHERS

Nigel Bosch

Assistant Professor. PhD, Computer Science, University of Notre Dame

Jessie Chin

Assistant Professor. PhD, Educational Psychology, University of Illinois at Urbana-Champaign

Yun Huang

Associate Professor. PhD, Information and Computer Science, University of California, Irvine

Michael Twidale

Professor. PhD, Computing, Lancaster University (UK)

Yang Wang

Associate Professor. PhD, Information and Computer Science, University of California, Irvine

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Danielle Wilberg, Director of Corporate and Foundation Relations, dwilberg@illinois.edu

DATA CURATION

iSchool data curation researchers improve how we collect, correct, clean, and care for the very data that informs each step in the data analysis life cycle. Proper data curation preserves the investment of time and money made to create the valuable datasets powering today's artificial intelligence systems and allows future researchers to reuse and recombine different data sources to support earlier decisions or enable new discoveries.

HAVING DATA IS GREAT,
BEING ABLE TO
FIND THE DATA
YOU NEED
IS EVEN BETTER

CORPORATE VALUE

- Crafting standards to facilitate increased accessibility and usability of datasets
- Supporting the full realization of data-driven strategies and data-intensive decision making
- Positioning workers to interact with and understand data at different stages of the data pipeline
- Broadening opportunities for the use and reuse of large-scale datasets

SELECTED EXPERTISE

At-Scale Data Curation Training

- Delivering scalable, accessible, inclusive, just-in-time training for work with data
- Supporting development of a strong data culture within companies to ensure proper curation

Heritage Preservation

- Preserving the data that make up the traditions and knowledge of any culture, including corporate culture or an industry's history and heritage
- Analyzing the impact of social factors on metadata systems and systems interoperability

Design-Level Tool Development

- Creating practical tools for researchers working with large-scale humanities data
- Comparing data and metadata standards for best-fit implementation of data curation practices

DATA CURATION

Information Modeling & Practices

- Analyzing common concepts in information systems and services
- Developing strategies to meet the need for consistent definitions and descriptions in digital environments
- Examining the impact of collaboration, contexts, and infrastructures on scientists' data practices
- Analyzing changes in the conduct of scientific research that result from the collection of increasing quantities and types of scientific data

Reproducibility

- Improving the reliability of results in the face of sophisticated computational approaches to research
- Understanding the effect of big data and computation on scientific inference, the design and implementation of scientific validation systems and standards of openness and transparency for data and code sharing

INFORMATION LIFECYCLE

- **Developing strategies** for data collection and management
- **Collecting and assembling** structured and unstructured data
- **Integrating** data from multiple sources
- **Assuring data quality** and protection
- **Describing** data metadata, taxonomy, ontology
- **Analyzing data** to identify trends and actionable insights
- **Developing visualizations and stories** to communicate insights
- **Archiving**, saving, and/or disposing data

RESEARCHERS

Peter Darch

Assistant Professor. PhD, Computer Science, Oxford

Allen Renear

Professor and Special Advisor for Strategic Initiatives (Office of the Provost). PhD, Philosophy, Brown

Elizabeth Wickes

Lecturer. MS, Library and Information Science, University of Illinois at Urbana-Champaign

Karen Wickett

Assistant Professor. PhD, Library and Information Science, University of Illinois at Urbana-Champaign

CONTACT

Danielle Wilberg, Director of Corporate and Foundation Relations, dwilberg@illinois.edu



DIGITAL LIBRARIES

Digital libraries (DL) can bring all the world's electronic books to our fingertips. Beyond books, DL systems allow us to collect, organize, preserve, and distribute all kinds of information objects, including scientific reports, business records, documents, maps, images, video, and even music. At the iSchool, researchers are developing DL solutions that combine the latest search engine, recommender, artificial intelligence, and interface technologies. Digital libraries can be created and customized for all sizes of collections and organizations: from a handful of photographs for a local history group to the combined documentation output of a global enterprise. Modern DL systems help us bring together all the information objects, regardless of format, relevant to a topic of interest. For example, imagine how useful it would be to have all the articles, books, images, recordings, and videos covering a popular subject of interest in one place.

**BETTER,
FASTER
ACCESS TO
INFORMATION**

CORPORATE VALUE

- Designing and evaluating systems to organize, preserve, and provide broad-scale digital access to data and information objects
- Combining social and technological approaches to create customized digital collections across a variety of media formats
- Developing human-centered solutions to information retrieval problems

SELECTED EXPERTISE

Collaborative Technologies

- Supporting the application of collaborative technologies to manage data quality and information retrieval

Complex Media Preservation

- Developing sociotechnical approaches to the design of digital libraries, including metadata and description
- Digital preservation of complex media and software, including video games and interactive software

DIGITAL LIBRARIES

Moving Image Digitization

- Analyzing standards for moving image digitization, including the impact of social contexts, technical choices, and decision-making processes

Digital Humanities

- Designing and evaluating systems for large-scale digital libraries
- Developing systems for music information retrieval
- Analyzing patterns in large collections, as shown below

References to money in literature

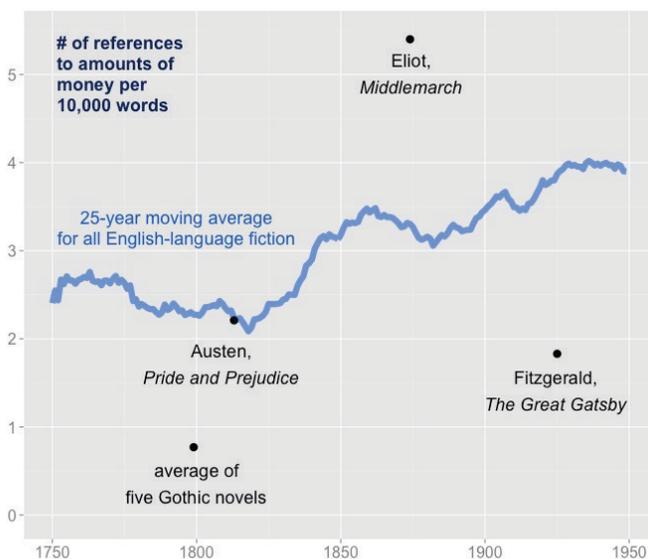


Image courtesy of Prof. Ted Underwood

RESEARCHERS

J. Stephen Downie

Professor, Associate Dean for Research. PhD, Library and Information Science, Western Ontario

Jimi Jones

Adjunct Lecturer. PhD, Library and Information Science, University of Illinois Urbana-Champaign

Michael Twidale

Professor. PhD, Computing, Lancaster University (UK)

Ted Underwood

Professor. PhD, English, Cornell University

CONTACT

Danielle Wilberg, Director of Corporate and Foundation Relations, dwilberg@illinois.edu

BIG

BUSINESS INTELLIGENCE GROUP

The iSchool is home to the Business Intelligence Group (BIG), a fast-paced, real-world learning opportunity for graduate students working in interdisciplinary teams to solve information and technology problems for international, national, and regional clients. Led by Associate Professor Yoo-Seong Song, who brings extensive experience as a consultant and an entrepreneur, this program offers a unique learning opportunity for students. Student consultants at BIG acquire and practice problem-solving skills critical to the success of today's organizations. BIG's clients include multinational corporations, nonprofit organizations, and technology start-ups.

BUSINESS SOLUTIONS FOR START-UPS, NONPROFITS, & GLOBAL CLIENTS

RECENT PROJECTS

- Creating a global sales management dashboard
- Creating a US market entry strategy for a digital health device company
- Building a business model for remote patient monitoring technology
- Developing service models for a facial recognition technology company
- Developing an investment proposal for a genomic testing start-up
- Creating and implementing telemetry-based marketing strategies
- Creating a data-driven solution to manage marketing activities for a non-profit organization
- Assessing competitive landscape for the sports apparel industry in the Metaverse

HOW BIG WORKS

- Students are assigned to different teams and engage with selected clients from industry and community organizations. Projects range from drafting engagement letters to delivering final presentations.
- A typical student team consists of one project manager and consultants. The faculty advisor may assign a senior consultant if necessary. The team will have either weekly or biweekly calls with the client throughout the engagement.
- Students sign a non-disclosure agreement (NDA).

BIG

BUSINESS INTELLIGENCE GROUP

AREAS OF EXPERTISE

- Data analytics
- Technology market assessment
- Data management strategy
- Strategy development
- Data visualization
- Market entry and expansion
- Technology product/service development
- Digital health

OUTCOMES

Clients receive

- Solutions to complex problems via BIG's expertise as well as access to experts on campus
- Deep understanding of students' talents and innovative approaches
- Creative recommendations from student teams with diverse subject backgrounds and work experiences

Students learn to

- Approach complex problems using proven methods of strategy and management consulting
- Produce professional deliverables that have true impact on the clients' businesses

PROJECT LIFECYCLE

Clients typically connect with Associate Professor Song six to eight weeks in advance of the semester with a list of projects. Once the semester begins, the life cycle runs eight to twelve weeks.

- Weeks 1–2: Project team is assigned
- Weeks 3–6: Project launches with NDA and initial meeting
- Weeks 6–9: Focused research with biweekly client meetings
- Week 10: Project midpoint and client confirmation of direction
- Weeks 10–12: Final presentation to client

GET INVOLVED

We invite corporate and community involvement in the BIG program. BIG is continually looking to identify projects and partnerships outside of the university. If you have an information research project suitable for this semester-long collaboration, please contact Associate Professor Song at yoosong@illinois.edu.

BIG MANAGEMENT

Yoo-Seong Song

Associate Professor
MSI, University of Michigan
MBA, University of Iowa
yoosong@illinois.edu



PROGRAMS & DEMOGRAPHICS

BS IN INFORMATION SCIENCES (BSIS) & BSIS + DATA SCIENCE (DS)

The BSIS degrees empower students to derive and apply critical insights from data, protect data privacy, and present information to a range of stakeholders. Students and alumni from both programs work in consulting, cybersecurity, data science, IT, and UX. Students and alumni from both programs work in consulting, cybersecurity, data science, IT, and UX.

Demographics: 450 students: 40% female, 81% domestic, 14% underrepresented

Coursework may include

- Social Aspects of Information Technology*
- Database Concepts and Applications*
- Analytical Foundations for Information Problems*
- Programming for Information Problems*
- Introduction to Network Information Systems
- Systems Analysis and Design
- Foundations of Information Processing
- Topics in Human-Centered Design and Systems
- Introduction to Database Concepts and Applications
- Social Network Analysis

MS IN INFORMATION MANAGEMENT (MSIM)

In 2019, a survey of the campus Research Park revealed that IM students comprised 10% of the student workforce despite making up less than 2% of the campus population. These students excel in

- Data analytics/data science including ML, NLP, explainable AI, data storytelling, and security
- Business Intelligence and consulting

Demographics: 400+ students on campus: 45% Female, 97% International
Degrees: 61% Engineering degrees, 15% IT
Experience: 1-3 years' work experience

Coursework may include

- Data, Statistical Models, and Info*
- Sociotechnical Information Systems*
- Information Modeling*
- Applied Business Research
- Data Visualization
- Topics in Data Analytics and Data Science
- Database Design and Prototyping
- Systems Analysis and Design
- Text Mining
- Data Structures and Algorithms
- Responsible Data Science & AI
- Ethics and Policy for Data Science

MS IN LIBRARY AND INFORMATION SCIENCES (MSLIS)

The LIS degree has been ranked #1 by *U.S. News & World Report* for over 20 years. Graduates go on to:

- Manage teams in industries, including healthcare, business, law, and technology
- Provide leadership in areas including data curation, taxonomies, metadata, data asset management, research, scholarly communication, digital libraries, UX, and knowledge management

Demographics: 600 students (200 on campus), 97% domestic, 80% female

Coursework may include

- Information Organization and Access*
- Libraries, Information, and Society*
- Open Data Mashups
- Metadata in Theory and Practice
- Government Information
- Competitive Intelligence & Knowledge Management
- Crisis Informatics

*indicates a required course

DESTINATIONS & RECRUITING

SELECTED EMPLOYERS

AGCO	EBSCO	Leo Burnett
Amazon	Epic Systems	MasterCard
Apple	Etsy	Meta
Bain & Co.	Ex Libris	Microsoft
BCG	Experian	Morgan Stanley
Bosch	EY	Morningstar
BP	Facebook	Motorola
Brunswick	FedEx	Nike
Capgemini	Footlocker	PayPal
CapitalOne	Gartner	PwC
Cargill	Google	Salesforce.com
Capital One	IBM	Spectrum
Caterpillar	Indeed	Synchrony
CenturyLink	Intel	Uber
Citrix	IMO	Venmo
Cisco	John Deere	Wayfair
Climate Corp.	Kohler	Yahoo!
Deloitte	Kohl's	
Discover	Land's End	

TITLES INCLUDE

BI Analyst
Consultant
Cybersecurity and Privacy Associate
Data Analyst, Data Engineer, Data Scientist
Data Visualization Intern
Metadata Librarian
Product Manager
Project Manager
Research Analyst
Software Engineer
Research Consultant
Taxonomy Analyst
Technology Consultant
UI Engineer, UI/UX Designer, UX Researcher
User Services Support Team Manager

RECRUITING

We welcome your engagement with our students. Learn more at go.illinois.edu/iSchoolRecruiting.

- **Host a Lunch 'n' Learn** to recruit interns and full-time staff during the first six weeks of each semester
- **Coordinate a workshop**, networking event, resume review or mock interviews with the iSchool Data Science Club or the Psi Eta Mu professional fraternity
- Attend our **DEI networking event** and our **Career Fair** on September 7-8, 2023
- Sponsor a **BIG consulting project**
- Offer **practicum credit** for your paid interns
- Fund a **scholarship** or fellowship
- **Post a job** on Handshake

PRACTICUM CREDIT

Your interns can enroll in Practicum, a credit earning internship available at both the undergraduate and graduate levels. Students complete a minimum of 100 hours of experiential learning for work done at or near a professional level. Experiences can be tailored for a specific site or student. Practica students are paid at for-profit companies, and may be unpaid at nonprofit organizations.

CONTACT

Michele Plante, Assistant Director for Employer Relations, mplante@illinois.edu
go.illinois.edu/iSchoolRecruiting



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