DATA & INFORMATION
FOR SOCIAL GOOD

ABOUT THE DATA & INFORMATION FOR SOCIAL GOOD BSIS TRACK

Students learn to engage with data and ethically advocate for ethical data policy. Classes cover the ethical challenges that arise from the growth of big data and what can be done to mitigate these problems. Students will learn skills including:

- Public policy review and analysis
- Critical thinking
- Process improvement
- Change management
- Knowledge transfer
- Data ethics
- Data-informed decision making
- Ethical decision making
- Community engagement
- Research

COURSES:

- ISCI 201: Data, Information & Society
- ISCI 215: Data Ethics
- ISCI 310: Information Science Data Analysis and Evaluation
- ISCI 315: Cyberethics and Information Policy
- ISCI 402: Management in Data Driven Organizations
- ISCI 410: Knowledge Work as an Organizational Asset
- ISCI 415: Social Issues in Information and Communications Technologies
- ISCI 420: Information and Communication Needs and Assessment

JOBS:

- Ethics & Compliance Analyst at Sonoco: $71,700-$90,600/year
- Information System Security at Professional National Security Agency: $81,233 - $183,500/year

TRACK CONTACT:

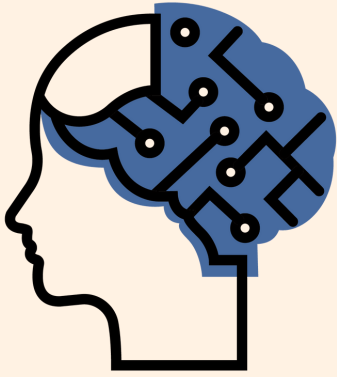Track Contact: Darin Freeburg
Email: darinf@mailbox.sc.edu

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UNIVERSITY OF SOUTH CAROLINA

AI & DATA ANALYTICS

ABOUT THE AI & DATA ANALYTICS BSIS TRACK

Students will learn how AI impacts society and the advantages and challenges that come from its application. Topics will cover information storage and retrieval systems and transforming unstructured text into a structured format to identify meaningful patterns and new insights. Students will learn skills including:

- Programming languages, including R and Python
- Software including Excel, Tableau, R Studio and Anaconda
- Machine learning and AI
- Ethics, bias, critical thinking, and cognition in AI
- Pattern discovery from data
- Visual analytics
- Data storytelling
- Ethical, data-informed decision-making
- Research

COURSES:

- ISCI 301: Text Mining in Big Data Analytics
- ISCI 434: Introduction to Knowledge Discovery
- ISCI 534: Knowledge Discovery Techniques
- ISCI 560: Data Visualization

JOBS:

- Data Analyst at SYSTEMTEC: $62,000-92,000/year
- Program Planner and Scheduler at Northrop Grumman: $63,800 - $95,600/year

TRACK CONTACT:

Alamir Novin
Email: novin@sc.edu

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UX DESIGN
(USER EXPERIENCE DESIGN)

ABOUT THE USER EXPERIENCE (UX) DESIGN BSIS TRACK

Students will have hands-on experience with user experience research, learn the most common user experience design tools, and practice user experience research. Students will learn skills including:

- Data collection
- Creation of interactive prototypes
- User interface design
- Responsive web design
- Wireframing
- Accessible design
- Research
- Ethical, data-informed decision-making

COURSES:

- ISCI 240: UX Methods
- ISCI/JOUR 249: UX/UI Foundations
- ISCI 250: Information Design
- ISCI 430: User-centered Info Architecture

JOBS:

- Experience Designer at US Federal Aviation Administration: $117,639 - $182,374/year
- Product Design UX Researcher at HP: $83,652-$110,181/year

TRACK CONTACT:

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MISINFORMATION
IDENTIFICATION & PREVENTION

ABOUT THE MISINFORMATION IDENTIFICATION & PREVENTION BSIS TRACK

In this track, you will learn how to verify and create textual and visual information, digital and otherwise. You will also understand the psychological and social causes of sharing false information. Students will build the following skills:

- Search logics and strategies
- Reverse image searching
- Critical analysis of audiovisual content
- Metadata
- Public policy review and analysis
- Critical thinking
- Data literacy
- Social searching
- Research
- Ethical, data-informed decision-making

COURSES:

- ISCI 202: Information Literacy and Technology
- JOUR 210: Media Literacy
- ISCI 283: News Literacy: Battling Misinformation, Deepfakes, and Conspiracy Theories
- ISCI 560: Data Visualization

JOBS:

- Intellectual Property Paralegal at BWX Technologies: $48,000 -$72,000/year
- Data Collection and Research Analyst Lead at State of Nebraska: $3,860/month

TRACK CONTACT:

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