



# Artificial Intelligence in Data Science

UNDERGRADUATE SUMMER SCHOOL (4-WEEK ONLINE PROGRAM)  
JULY 19 - AUGUST 13, 2021  
APPLICATION DEADLINE: MAY 31



## Key Start Dates

- July 19** TEACHING ASSISTANT (TA) LED READING WEEK
- July 26** NETWORK ANALYSIS LECTURES & TA LED Q&A
- August 2** DATA SCIENCE CREATIVITY LECTURES & TA LED Q&A
- August 9** CO-CURRICULAR SESSIONS & FINAL PROJECTS

**Program Fee: \$1000**

GROUP RATE AVAILABLE - CONSULT WITH GET

**Apply Here**



**Program hosted by**  
[Global Education & Training](#)

<https://www.get.illinois.edu>  

## Online Format

Synchronous videoconference lectures, with assignments and group projects completed asynchronously.

## Technology Requirements

Access to Wi-Fi and a device (computer, laptop, or tablet) suitable for participation in online videoconference sessions.



## JANA DIESNER, PH.D

Associate Professor, School of Information Sciences

At UIUC, Jana leads the Social Computing lab. Her research in computational social science and human-centered data science combines methods from natural language processing, social network analysis, and machine learning with theories from the social sciences to advance knowledge and discovery about interaction-based and information-based systems. She brings her research into the application contexts of responsible computing (transparency, governance, biases, and ethics of computing), crisis informatics, and impact assessment. She is currently serving as the Director for Strategic Initiatives / Data Science at her unit.



## WADE FAGEN-ULMSCHNEIDER, PH.D

Teaching Associate Professor, Siebel Center for Computer Science

With a passion for data, Wade often teaches thousands of students each year in his courses on Data Structures, Data Visualization, and Data Science. He was selected as one of the National Academy of Engineering's Frontiers of Engineering Education scholars, awarded the Collins Award for Innovation Teaching, and has been consistently ranked as an excellent instructor by his students for the past ten years. His work on data visualizations has been used by governors of multiple states, featured by websites including Popular Mechanics and The Verge, and has been viewed by millions of readers.

## Course Topics

### NETWORK ANALYSIS (10 HOURS)

Students will be introduced to fundamental theories, concepts, methods, and applications of network analysis. Students learn how to approach network analysis tasks and projects in an informed and analytical fashion. Students acquire practical hands-on skills in collecting, analyzing, and visualizing network data. At the end of the course, students will be able to critically assess network studies and to solve real-world, network-centric problems.

### DATA SCIENCE CREATIVITY (10 HOURS)

Students will be introduced to Python, data visualization, visual encoding, data generation: sampling and simulation, identification, clustering, and classification, etc. Students will perform hands-on-analysis of real-world datasets to analyze and discover the impact of the data.

## Co-Curricular Sessions (4 HOURS)

Enriching students' experiences by providing interactive resources for planning their overseas U.S. education.

- Virtual campus tour
- Admission requirements & graduate program introduction
- Writing a graduate school personal statement
- How to be a successful graduate student

## CONTACT OUR TEAM

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