

Christina Youn

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EDUCATION

University of Illinois, Urbana-Champaign

Ph.D. in Computer Science

May 2021 - Present

GPA: 3.83

University of Notre Dame

Bachelor of Science in Computer Science

May 2021

Magna Cum Laude

GPA: 3.856

HONORS

Honor Society Membership

Tau Beta Pi

November 2020 - Present

Upsilon Pi Epsilon

September 2020 - Present

PUBLICATIONS

Lanyu Shang, Yang Zhang, **Christina Youn**, Dong Wang. **SAT-Geo: A social sensing based content-only approach to geolocating abnormal traffic events using syntax-based probabilistic learning**, *Information Processing & Management*, 2022

Lanyu Shang, **Christina Youn**, Yuheng Zha, Yang Zhang, Dong Wang. **KnowMeme: A Knowledge-enriched Graph Neural Network Solution to Offensive Meme Detection**, *2021 IEEE 17th International Conference on eScience (eScience)*, 2021

Ziyi Kou, Lanyu Shang, Yang Zhang, **Christina Youn**, Dong Wang. **FakeSens: A Social Sensing Approach to COVID-19 Misinformation Detection on Social Media**, *2021 17th International Conference on Distributed Computing in Sensor Systems (DCOSS)*, 2021

Lanyu Shang, Yang Zhang, Yuheng Zha, Yingxi Chen, **Christina Youn**, Dong Wang. **AOMD: An Analogy-aware Approach to Offensive Meme Detection on Social Media**, *Information Processing & Management*, 2021

RESEARCH

Undergraduate Research

Social Sensing Lab – Dr. Dong Wang

Fall 2020 - May 2021

Offensive Meme Detection

- Labeled memes from Reddit as offensive or non-offensive
- Summarized key observations for implicit memes
- Produced word clouds and began initial data analysis

COVID-19 Misinformation Detection

- Labeled relational entities from COVID-19 articles

Mobile Computing Lab – Dr. Christian Poellabauer

Fall 2018 - May 2021

SpeechMarker

- Created a web portal for audio file emotion analysis
- Worked with GWT and AWS

Team Edge

- Implemented data cleansing on GPS coordinates
- Started a map-matching program for deep learning

Koios

- Developed a mobile application to predict user activity
- Researched battery efficiency to collect sensor data

REU Summer Program

IoT-SITY – Dr. Nalini Venkatasubramanian

Summer 2020

- Worked to produce a sensor placement solution for stormwater
- Simulated stormwater networks using SWMM
- Met with industry professionals to gain further insight

NIMBUS Lab – Dr. Carrick Detweiler

Summer 2019

- Trained a model for real-time drone detection
- Used YOLO (You Only Look Once) deep learning architecture
- Presented the research at a poster symposium

EXPERIENCES

Teaching Assistant

Operating System Principles

Fall 2020

Systems Programming

Spring 2020, Spring 2021

Fundamentals of Computing

Fall 2019

Introduction to Engineering Systems

Fall 2018, Spring 2019

IEEE Integrated STEM Education Conference

External Conference Paper Reviewer

January 2019

- Reviewed paper submissions to IEEE conference
- Provided constructive criticism

First-Year Asian Campus Ministry Retreat

Retreat Leader

Fall 2018

- Presented and discussed retreat vision with university staff
- Delegated leadership positions within the retreat
- Met with speech-givers and edited speech drafts

SKILLS

Programming Languages:

Python, C, C++, Java, Shell Scripting, MatLab, Verilog

Android Studio

Autodesk Maya

Tools: Git, Linux Terminal

Korean Language (fluent)

Computer-Aided Design Software: SolidWorks, Creo