

# Woohyeuk (Kevin) Lee

Research Assistant at MadCollab  
University of Wisconsin-Madison

wlee283@wisc.edu  
+1 213 740 2773  
kweel.github.io

## EDUCATION

B.S. Computer Sciences; Information Science, University of Wisconsin-Madison, 2024

## EXPERIENCE

- 2022– University of Wisconsin-Madison  
Research Assistant under Professor Thebault-Spieker
- Contextualized Road Safety*: conducted traffic engineering literature review, constructed spatial database, suggested new dimensions for parametrizing safety in spatial technologies. Publication under works.
- Rural Non/Use of UGC*: conducted semi-structured interviews with rural citizens of Wisconsin, employed Satchell et al.'s non/use framework and Hardy et al.'s appeal to identifying symbolic rural identities beyond region. Publication under works.
- 2020 PhotonIC Technologies  
Software Engineering Intern
- Developed a modular smart thermometer with Android app interfacing with custom 3D-printed shell for microcontroller and company's SoTA temperature sensor. Iterated through design- thinking process based on UI/UX design literature.

## RELEVANT COURSEWORK

- CS570 *Introduction to Human-Computer Interaction* – Principles of and methods for understanding user needs, designing and prototyping interface solutions, evaluating usability; Applications in designing web-based, mobile, and embodied interfaces
- CS540 *Introduction to Artificial Intelligence* – Principles of knowledge-based search techniques, automatic deduction, knowledge representation using predicate logic, machine learning, probabilistic reasoning, applications in natural language understanding, CV, speech recognition, and robotics
- CS571 *Building User Interfaces* – Fundamental concepts, technologies, algorithms, and methods in building user interfaces; Implementation of UIs using SoTA UI tools
- LIS 461 *Data Ethics and Policy* – Understanding ethical, legal, and policy issues related to analytics, big data, and algorithms to support decision making.
- LIS 470 *Interaction Design Studio* – Principles of interaction design. Discussion and application of data-driven process of human-centered interaction design to develop new digital products and services.
- MATH 443 *Applied Linear Algebra* – Eigenvalues and eigenvectors, diagonalization, quadratic forms, inner product spaces, norms, canonical forms. Discussion of applications in the sciences.
- PHIL 541 *Modern Ethical Theories* – Ethical theories and problems as discussed in the late nineteenth and twentieth centuries

- CS577     *Introduction to Algorithms* – Paradigms of efficient algorithms: greedy, divide-and-conquer, dynamic programming, reductions, and the use of randomness. Computational intractability.
- CS538     *Theory and Design of Programming Languages* – Introduction to procedural, object-oriented, functional, and logic paradigms of programming. Serial and concurrent programming. Execution models and formal specification techniques.