# Kang-il Park

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## Education

- **University of Nebraska-Lincoln** — Lincoln, NE
  *Doctor of Philosophy - Computer Science* — *Expected 2026*
- **University of Nebraska-Lincoln** — Lincoln, NE
  *Master of Science - Computer Science* — *May 2020*
- **University of South Dakota** — Vermillion, SD
  *Bachelor of Science - Computer Science, Minor in Mathematics* — *December 2017*

## Languages & Skills

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|---|---|---|---|---|---|
| R | Python | Java | C# | C++ | MySQL |
| Javascript | MATLAB | LaTeX | RStudio | Data Analysis | Big Data |
| Usability Studies | User Interviews | Eye Tracking | A/B Testing | Experimental Design | Human Subjects Testing |

## Projects

- **i-Trace**: Lead developer of iTrace, an eye tracking software infrastructure used by **40+ research publications** in the software engineering domain at UNL. Implemented features based on the expanding scope of research projects, including modifying code bases of each component in C#, Java, Javascript, etc.
- **Assessing Code Review Practices**: Conducted a study with **90 participants** examining the effects of software engineering roles using an eye tracker to determine whether there is an effect on how programmers review code.
- **Assessing the Impact of Background Styling in Code**: Conducted a study with **62 participants** using eye trackers to examine the effects of code background styling on cognitive load of developers.
- **Assessing Emotional Awareness During Bug Fixes**: Conducted a study with **27 participants** examining the effects of a programmer's emotional awareness on bug fix progress. Biometric information via eye-tracking, facial emotion, and Electrodermal Activity (EDA) were analyzed using a series of Python and R scripts.
- **Analyzing Sentiment in GitHub Pull Requests**: Conducted a novel case study comparing the results of 5 different sentiment analysis tools (SentiStrength, SentiStrength-SE, SentiCR, NLTK, and Stanford-NLP) against **6 human participants** using a subset of the GHTorrent dataset of 46 million pull requests as well as documenting the progress in doing so while using a series of SQL, R, Python, and Bash scripts.

## Experience

- **University of Nebraska-Lincoln** — Lincoln, NE
  *Graduate Assistant* — *August 2018 - Present*
  - **Graduate Research Assistant - Software Engineering Research and Empirical Studies Lab**: Conducted research studies with **232 participants** on the construction of techniques, tools, and environments to assist in program comprehension, software evolution, software visualization, and software traceability using empirical methods.
  - **Instructor**: Served as the primary instructor for undergraduate courses with over 60 students, independently designing syllabi, preparing and delivering lectures, creating assignments and exams. Utilized active learning techniques and integrated online tools (e.g., Canvas) to enhance student engagement and performance.
  - **Graduate Teaching Assistant**: Contributed to the design and management of courses, including object-oriented programming in Java, relational database concepts in SQL, and software requirement engineering in UML. Conducted lab sessions as the primary lab instructor and maintained the computer science department's internal grading software.
- **University of South Dakota** — Vermillion, SD
  *Graduate Teaching Assistant* — *January 2018 - May 2018*
  - Designed the lab course component, including assignments and exams of the Machine Organization course, teaching students both x86 and Nios II Assembly for PCs and FPGAs. Conducted lab sessions as the lab instructor and other duties as assigned.