Seunghyun Kim

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EDUCATION	
Georgia Institute of Technology , College of Computing Ph.D. Student in Computer Science	Aug 2019 – May 2024 (Expected) Atlanta, GA
Cornell University , College of Engineering Master of Science in Computer Science Cumulative GPA: 3.882	Aug 2017 – May 2019 Ithaca, NY
Cornell University , College of Engineering Master of Engineering in Computer Science Cumulative GPA: 3.446	Jan 2013 – Jan 2014 Ithaca, NY
Cornell University , College of Arts and Sciences Bachelor of Arts in Computer Science Cumulative GPA: 3.154	Aug 2009 – Jan 2013 Ithaca, NY

Related Coursework: Social Computing, Natural Language Processing, Computation Techniques for Analyzing Clinical Data, Artificial Intelligence, Information Retrieval, Probabilistic Models and Inference

PUBLICATIONS

Kim, S., Razi, A., Stringhini, G., Wisniewski, P., and De Choudhury, M. (2021). *You Don't Know How I Feel: Insider-Outsider Perspective Gaps in Cyberbullying Risk Detection*. In Proceedings of the International AAAI Conference on Web and Social Media (Vol. 15, pp. 290-302).

Kim, S., Razi, A., Stringhini, G., Wisniewski, P., and De Choudhury, M. (2021). *A Human-Centered Systematic Literature Review of Cyberbullying Detection Algorithms*. Proc. ACM Hum.-Comput. Interact. 5, CSCW2, Article 325 (October 2021), 34 pages.

A. Razi, **S. Kim**, A. Alsoubai, G. Stringhini, T. Solorio, M. De Choudhury, P. Wisniewski, M. De, *A Human-Centered Systematic Literature Review of the Computational Approaches for Online Sexual Risk Detection*. Proc. ACM Hum.-Comput. Interact. 5, CSCW2, Article 465 (October 2021), 38 pages.

Razi, A., **Kim, S.**, Alsoubai, A., Caddle, X., Ali, S., Choudhury, M. D., & Wisniewski, P. (2021, May). *Teens at the Margin: Artificially Intelligent Technology for Promoting Adolescent Online Safety*. In ACM Conference on Human Factors in Computing Systems (CHI 2021)/Artificially Intelligent Technology for the Margins: A Multidisciplinary Design Agenda Workshop.

Caddle, X., Alsoubai, A., Razi, A., **Kim, S.**, Ali, S., Stringhini, G., ... & Wisniewski, P. (2021, May). *Instagram Data Donation: A Case for Partnering with Social Media Platforms to Protect Adolescents Online*. In ACM Conference on Human Factors in Computing Systems (CHI 2021)/Social Media as a Design and Research Site in HCI: Mapping Out Opportunities and Envisioning Future Uses Workshop.

Razi, A., AlSoubai, A., **Kim, S.**, Naher, N., Ali, S., Stringhini, G., ... & Wisniewski, P. J. (2022, April). *Instagram Data Donation: A Case Study on Collecting Ecologically Valid Social Media Data for the Purpose of Adolescent Online Risk Detection*. In CHI Conference on Human Factors in Computing Systems Extended Abstracts (pp. 1-9). **Honorable Mention Award**.

RESEARCH EXPERIENCE

A Multi-Disciplinary Approach to Detecting Adolescent Online RisksAug 2019 – PresentNational Science Foundation Funded ProjectAtlanta, GA

- Examined the past literature on cyberbullying detection through the lens of humancenteredness to identify gaps in incorporating the human and social aspects of technical solutions; illustrated the benefit of involving the human in machine learning algorithm designs
- Studied how various stakeholders of cyberbullying perceive cyberbullying differently, effecting the performance of detection models; highlighted the importance of self-initiated annotations from cyberbullying victims in developing a robust cyberbullying detection system

2018 National Natural Language Processing Clinical Challenge (N2C2)May 2018Joint ProjectIthaca, NY

- Examined the potential of Convolutional Neural Networks (CNN) when analyzing clinical records without any medical knowledge supervision; demonstrated the effectiveness of CNN in text classification while illustrating the need for medical knowledge in training the models for analyzing clinical data
- Implemented the CNN structure for text classification and participated in the data preprocessing phase

10th Annual Sociology Research Symposium

Mar 2018 Ithaca, NY

Joint Project

- Discovered null correlation between the amount of social feedback and the length, visual word, and the percentage of adjectives and adverbs in posts, which showed that people in online communities are supportive of anyone who writes suicidal posts on a suicide prevention community on Reddit regardless of the length or vividity of the post
- Found positive correlation between the amount of social feedback and negative factors which demonstrated how people were willing to help those that showed critical signs of suicidal intent
- Found no correlation between the amount of social feedback and protective factors which demonstrated how people were still caring despite fewer signs of suicidal intent
- Proposed the project; extracted and preprocessed Reddit posts and comments; developed the code for analyzing the correlation between the posts and number of comments and upvotes

Master of Engineering Project

Graduation Project

- Designed a model that analyzed electroencephalogram (EEG) data to detect hierarchies between brain cells
- Demonstrated the existence of hierarchical relationship between brain cells through pairwise analysis of the frequency of EEG signals

Jan 2013 – Dec 2013 Ithaca, NY

WORK EXPERIENCE

Nokia Bell Labs Research Intern

• Studied the concept of positive stress and its influences in the organizational cultures through Glassdoor using linguistic, location, and temporal analysis

Cornell University

Teaching Assistant

- Led weekly office hours and discussion sections; assisted in grading preliminary exams and assignments as a Head Teaching Assistant for Introduction to Computer Using Python (Aug 2017 - May 2019)
- Served as a Teaching Assistant for Intermediate Design and Programming for the Web (Jan 2012 – May 2012) and for Introduction to Computing Using Python (Jan 2013 – Dec 2013)

Cornell University

Instructor

- Organized 6-week summer course Fundamental Programming Concepts
- Prepared lecture material, assignments, and exams
- Held weekly office hours and utilized an online Q&A board to maximize each student's learning experience

Unichal, Inc.

Associate Research Engineer

- Coordinated a project for a speech recognition platform utilizing various speech recognition API to help South Korean tourists overseas
- Developed an Android application that used an external camera device and Optical Character Recognition to search word definitions from paper text

Uijeongbu St. Mary's Hospital

Software Developer

- Developed a software that parsed the physician input and exported into the hospital database format
- Built a software that suggested differential lists from lab test results to improve diagnostic accuracy of resident physicians during their training

HONORS AND AWARDS

Yahoo! Teaching Award

Cornell University

• Recognized as one of 2 outstanding teaching assistants in the College of Engineering

Honorable Mention

Conference on Human Factors in Computing Systems 2022

• Co-authored a paper that received the Honorable Mention award at CHI 2022

SKILLS AND INTERESTS

Programming Skills: Java / Python / MySQL Interests: Breakdancing and popping / Cooking / Playing chess

June 2010 – June 2011

Uijeongbu, South Korea

June 2018 – Aug 2018

Ithaca, NY

Ithaca, NY

June 2014 – June 2017 Seoul, South Korea

Ithaca, NY

May 2013

May 2022

New Orleans, LA

Jun 2020 – Aug 2020

Cambridge, England

Jan 2012 – May 2019