

# JiWoong (Joon) Jang

[joonbugs.github.io](https://joonbugs.github.io) | [jiwoongj@andrew.cmu.edu](mailto:jiwoongj@andrew.cmu.edu) | Pronouns: *he/him* | US Permanent Resident

## RESEARCH AREAS OF INTEREST

Accessibility, Human-AI Interaction, Computer Vision, Machine Learning, Human-Robot Interaction

## EDUCATION

**Carnegie Mellon University - School of Computer Science**

Pittsburgh, PA

Ph.D. in Human-Computer Interaction

(beginning) 08/2022 - current

**Carnegie Mellon University - School of Computer Science**

Pittsburgh, PA

B.S. in Artificial Intelligence, Minor in Human-Computer Interaction

05/2022

- Phi Beta Kappa and Senior Leadership Recognition Award

## PUBLICATIONS / AWARDS

**Published / Accepted Work** (\* - denotes equal contribution)

**2022**

[C3]  Rich Screen Reader Interactions for Accessible Data Visualization

[EuroVIS 2022](#)

J. Zong\*, C. Lee\*, A. Lundgard\*, **JW Jang**, D. Hajas, A. Satyanarayan

(Accept Rate: 24%)

- Honorable Mention (Top 5% of accepted submissions)

**2021**

[C2] Say It All: Feedback for Improving Non-Visual Presentation Accessibility

[CHI 2021](#)

Y.H. Peng, **JW Jang**, J. Bigham, A. Pavel

(Accept Rate: 26%)

[C1] Explorations of Designing Spatial Classroom Analytics with Virtual Prototyping

[LAK 2021](#)

**JW Jang**\*, J. Lee\*, V. Echeverria, L. Lawrence, V. Aleven

(Accept Rate: 31%)

### Awards

Phi Beta Kappa Inductee

S2022

Senior Leadership Recognition Award

S2022

University Presidential Scholarship (\$125K 4-Year Academic Scholarship)

F2018 - S2022

School of Computer Science - Dean's List with High Honors

S2019 - S2022

Red Robot Hackathon - General Motors Best Robot Award

Oct 2018

## RESEARCH POSITIONS

**Carnegie Mellon University - AXLE Lab**

F2021 - Current

Research Assistant with [Dr. Patrick Carrington](#)

<b>Massachusetts Institute of Technology - CSAIL</b>	Summer 2021
Research Assistant with <a href="#">Dr. Arvind Satyanarayan</a> (MIT Visualization Group)	
<b>Carnegie Mellon University - HCII Summer Research Program</b>	Summer 2020 - F2020
REU Research Assistant with <a href="#">Dr. Vincent Aleven</a>	
<b>Carnegie Mellon University - Big Lab</b>	S2020 - F2020
Research Assistant with Drs. <a href="#">Amy Pavel</a> and <a href="#">Jeffrey P. Bigham</a>	

## RECENT WORK / EXPERIENCE

<b>Carnegie Mellon University - Human-Computer Interaction Institute</b>	F2021
Head Teaching Assistant for 05-499 / 05-899 (Accessibility)	
<b>Carnegie Mellon University - School of Computer Science</b>	F2019 - S2020
Teaching Assistant for 15-122 (Principles of Imperative Computation)	
<b>Carnegie Mellon University - CREATE Lab (<a href="#">EarthTime</a> / <a href="#">AI &amp; Humanity Archive</a>)</b>	Summer 2019
Web Backend / Frontend / Design Intern - Supervised by Dr. Illah Nourbakhsh	
<b>Prior to CMU</b>	
<b>Ministry of Health and Welfare - Republic of South Korea</b>	Jun 2016 - Jul 2018
Special Task Force (Advisory to the Minister on Accessible Technology)	
<b>Community Chest of Korea</b>	Mar 2013 - May 2016
Team Lead / Social Worker for Deaf and Hard-of-Hearing Causes	

## SERVICE / EXTRACURRICULARS

SCS4Accessibility, co-Lead + co-Founder	F2021 - current
ABLE CMU (Disability Advocacy / Social Awareness Group), VP + Founding Member	F2019 - current
Accessibility Research Reading Group (Led/Presented 2 Sessions)	S2020 - current
SCS4ALL, Lead Mentor for Under-Upperclassmen Mentorship Program	F2018 - current
CMU PRISM (LGBTQ+ Advocacy Group)	F2018 - current

## RELEVANT COURSEWORK

### Past Coursework

<b>AI / ML</b>	Computational Photography, Computer Vision, Deep/Reinforcement Learning, Machine Learning
<b>HCI</b>	Accessibility, Privacy and Security, Interaction Design, Human-Robot Interaction, Cognitive Psychology
<b>CS Fundamentals</b>	Computer Systems, Regression Analysis, Statistical Inference, Probability Theory, Multivariate Calculus, Linear Algebra, Algorithms Analysis, Imperative/Functional Programming, Data Structures

## SKILLS

<b>Code</b>	<i>Proficient:</i> Python, C, C++, JS/TypeScript, HTML+CSS, SML, LaTeX <i>Familiar:</i> ROS, Swift, Java, R, Matlab, SQL (learner), Django (learner), OCaml
<b>Software Frameworks</b>	OpenCV, Git, PyTorch (learner), TensorFlow (learner), Scikit-learn, Jupyter, R
<b>Packages / Apps</b>	Stata, Photoshop, Lightroom, Final Cut Pro X, WordPress
<b>Languages</b>	English (fluent), Korean (fluent), ASL (beginner), CASE/PSE (beginner)