

# 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**

Ph.D. in Human-Computer Interaction

Pittsburgh, PA

08/2022 - current

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**

**[S1]** "I Should Feel Like I'm In Control": Understanding Expectations, Concerns, and Motivations for the Use of Autonomous Navigation on Wheelchairs

ASSETS 2022

**JW Jang**, Y. Li, P. Carrington

**[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. Alevan

(Accept Rate: 31%)

### Awards

Phi Beta Kappa Inductee

S2022

Senior Leadership Recognition Award

S2022

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

F2018 - S2022

Red Robot Hackathon - General Motors Best Robot Award

Oct 2018

## RESEARCH POSITIONS

<b>Carnegie Mellon University - AXLE Lab</b> Research Assistant with <a href="#">Dr. Patrick Carrington</a>	F2021 - Current
<b>Massachusetts Institute of Technology - CSAIL</b> Research Assistant with <a href="#">Dr. Arvind Satyanarayan</a> ( <a href="#">MIT Visualization Group</a> )	Summer 2021
<b>Carnegie Mellon University - HCII Summer Research Program</b> REU Research Assistant with <a href="#">Dr. Vincent Alevan</a>	Summer 2020 - F2020
<b>Carnegie Mellon University - Big Lab</b> Research Assistant with Drs. <a href="#">Amy Pavel</a> and <a href="#">Jeffrey P. Bigham</a>	S2020 - F2020

## RECENT WORK / EXPERIENCE

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

## SERVICE / EXTRACURRICULARS

Dean's Undergraduate Research Recruitment Working Group	F2022 - current
SCS4Accessibility, co-Lead + co-Founder	F2021 - current
ABLE CMU (Disability Advocacy), Founding Member	F2019 - 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

**CS Fundamentals** Computer Systems, Regression Analysis, Statistical Inference, Probability Theory, Multivariate Calculus, Linear Algebra, Algorithms Analysis, Imperative/Functional Programming, Data Structures

## SKILLS

**Code** *Proficient:* Python, C, C++, JS/TypeScript, HTML+CSS, SML, LaTeX  
*Familiar:* ROS, Swift, Java, R, Matlab, SQL (learner), Django (learner), OCaml

**Software Frameworks** OpenCV, Git, PyTorch (learner), TensorFlow (learner), Scikit-learn, Jupyter, R

**Packages / Apps** Stata, Photoshop, Lightroom, Final Cut Pro X, WordPress

**Languages** English (fluent), Korean (fluent), ASL (beginner), CASE/PSE (beginner)