

JiWoong (Joon) Jang

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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

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

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

RECENT WORK / EXPERIENCE

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

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

AI / ML	Computational Photography, Computer Vision, Deep/Reinforcement Learning, Machine Learning
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HCI	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	<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
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)