

JASON WU

5000 Forbes Ave ◊ Pittsburgh, PA 15213

(+1) 404 234 7381 ◊ jsonwu@cmu.edu

EDUCATION

Carnegie Mellon University

August 2018 - Present

Advisor: Jeffrey Bigham

Ph.D. Human-Computer Interaction

Human-Computer Interaction Institute

Georgia Institute of Technology

August 2015 - May 2018

B.S. Computer Science (Intelligence & Information Internetworks)

Highest Honors

College of Computing

Overall GPA: 3.86

EXPERIENCE

CMU Human Computer Interaction Institute

August 2018 - Present

Graduate Research Assistant

- Developing methods for improved conversational interaction and response generation
- Researching deaf accessible speech interfaces and novel speech sensing
- Exploring sensing techniques for enabling intelligent and interactive environments

Google AI Perception Team

June 2018 - August 2018

Software Engineering Intern, Research Role

- Prototyped novel interfaces for subtle control of wearable devices
- Integrated audio accessibility features into wearable devices

USC Institute for Creative Technologies

June 2017 - August 2017

Undergraduate Research Intern

- Trained deep learning models for visual affect recognition
- Integrated affective language models, character animation system, and deep vision models to create a mobile virtual human system

Georgia Tech Ubicomp Lab

January 2016 - May 2018

Undergraduate Researcher

- Explored methods for inferring lung-health from smartphone data using passive sensing
- Researched novel input interactions for smartwatches and head worn displays
- Served as mentor for graduate research group that explored input interfaces for wearable computers

Agency Oasis

June 2015 - August 2015

Web Development Intern

- Worked with C#, SQL Server, and Sitecore, an enterprise-grade .NET CMS
- Wrote software to automate and import Harvest timesheet data into Excel

SKILLS

Computer Languages	Python, Java, C/C++, C#, JavaScript
Software & Tools	Android, Keras, PyTorch, Tensorflow, FreeRTOS, Unity3D
Hardware	Arduino, compactRIO, roboRIO
Certifications	MTA .NET Fundamentals, MTA Gaming Development Fundamentals
Languages	English (Native), Mandarin Chinese (HSK Level 5), French (Basic)

AWARDS & HONORS

Georgia Tech College of Computing Outstanding Undergraduate Researcher (2018)
HackGT - Best Microsoft Technology Award (2017)
MARTAHack - Implementation Prize Runner Up (2017)
HackStart - First Place Winner (2015)
Zell-Miller Scholarship (2015-2018)
NMSQT Georgia Pacific Corporate Scholarship (2015-2018)
FBLA Launchpad Winner (2015)
National AP Scholar (2014)

DISSERTATIONS

Synchronous Interfaces for Wearable Computers May 2018
Undergraduate Dissertation *Georgia Institute of Technology*
Researched synchronous interfaces for wearable computers which are a type of input system that allows users to express intent by performing an action in sync with a stimuli presented to them

RELEVANT COURSES

Core Courses	Other Courses
Machine Learning	Game AI
Natural Language Processing	Introduction to Information Security
Systems and Networks	Automata and Complexity
Introduction to Artificial Intelligence	Introduction to Database Systems
Computer Networking I	Design and Analysis of Algorithms

PUBLICATIONS

TongueBoard: An Oral Interface for Subtle Input
Proceedings of AH 2019, ACM 10th Augmented Human International Conference 2019
Richard Li, Jason Wu, Thad Starner

NADiA - Neural Network Driven Virtual Human Conversation Agents
Proceedings of IVA 2018, ACM International Conference on Intelligent Virtual Agents
Jason Wu, Sayan Ghosh, Mathieu Chollet, Steven Ly, Sharon Mozgai, and Stefan Scherer

SeeSaw - Rapid One-Handed Synchronous Gesture Interface for Smartwatches
Proceedings of ISWC 2018, ACM International Symposium on Wearable Computers
Jason Wu, Cooper Colglazier, Adhithya Ravishankar, Yuyan Duan, Yuanbo Wang, Thomas Ploetz, Thad Starner

NADiA - Towards Neural Network Driven Virtual Human Conversation Agents
Proceedings of the 17th International Conference on Autonomous Agents and Multi-Agent Systems
Jason Wu, Sayan Ghosh, Mathieu Chollet, Steven Ly, Sharon Mozgai, and Stefan Scherer

SynchroWatch: One-Handed Synchronous Smartwatches Gestures Using Correlation and Magnetic Sensing

Proceedings of the ACM on Interactive, Mobile, Wearable and Ubiquitous Technologies 2017 Issue 4
Gabriel Reyes, Jason Wu, Nikita Juneja, Maxim Goldshtein, W. Keith Edwards, Gregory D. Abowd, Thad Starner

Whoosh: Non-Voice Acoustics for Low-Cost, Hands-Free, and Rapid Input on Smartwatches

Proceedings of ISWC 2016, ACM International Symposium on Wearable Computers
Gabriel Reyes, Dingtian Zhang, Sarthak Ghosh, Pratik Shah, Jason Wu, Aman Parmani, Bailey Bercik, Thad Starner, Gregory D. Abowd, W. Keith Edwards

EXTRA-CURRICULAR

Georgia Tech Chess Team (1st Place 2016-2018, 1st Place U1800 2018), Georgia Tech College of Computing The Makery (2018), Georgia Tech Grey Hat Club (2016), Playing piano, Tennis, Ping pong