Andy Kong

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FIELDS OF INTEREST

My interests include neural interfaces, human-computer interaction, and sensing

EDUCATION

Carnegie Mellon University | Pittsburgh, PA

August 2018 - now | **B.S. Computer Science**, minor in Human-Computer Interaction

GPA: **3.6/4.0**

PROFESSIONAL EXPERIENCE

Future Interfaces Group | Research Assistant | February 2020 ➡ now

- ➤ Built data collection interface for analysis and inference on 6 channels of audio in real-time
- ➤ Conducted user studies and data analysis for publication of novel sensing paper
- ➤ Loaded and augmented large dataset for training of novel eye-tracking CNN

Kura AR | R&D Intern | May ➡ August 2020

- ➤ Constructed high-resolution AR demos with Unity to showcase AR headset's capabilities
- ➤ Designed and built custom analog circuits for controlling laser and motors

MIT Lincoln Laboratory | Bioengineering Intern | May ➡ August 2019

- ➤ Taught Medlytics course at the BeaverWorks Summer Institute, introducing Python, statistics, and machine learning to 20+ high school students through the lens of medicine
- ➤ Analyzed genetic and biological data for predicting hereditary and population-level disease

Cylab | Research Assistant | January ➡ May 2019

- ➤ Integrated on-board smartphone sensors with a particle filter and ground-truth landmarks to accurately track user location in GPS-restricted environments

PUBLICATIONS

1. Karan Ahuja, **Andy Kong**, Mayank Goel and Chris Harrison. 2020. Direction-of-Voice (DoV) Estimation for Intuitive Speech Interaction with Smart Devices Ecosystems. In Proceedings of the 33rd Annual ACM Symposium on User Interface Software and Technology (UIST '20). Association for Computing Machinery, New York, NY, USA. [To Appear]

PATENTS

1. K Ahuja, A Kong, M Goel, and C Harrison. Direction-of-Voice (DoV) Estimation for Intuitive Speech Interaction with Smart Devices Ecosystems. Filed June 10, 2020.

References

Mark Stehlik   Teaching Professor, School of Computer Science, Carnegie Mellon University