

Kan Kawabata

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github.com/kkawabat

Skills

Proficient in Python and Matlab.

- 6 years of experience using Matlab for signal processing assignments as researcher.
- 8+ years using Python as researcher and software engineer

Proficient in python's data science libraries

- Pandas
- Numpy
- Matplotlib
- Scipy

Familiar with DevOps and CI/CD tools

- Docker
 - Git Version Control
 - Gitlab CI/CD
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Experience

Aural Analytics / Speech Algorithm Developer

March 2019 - PRESENT, Arizona

Software engineer / data scientist / algorithm developer

- Assisted the CTO in migration of academic research algorithm to production level code
- Collaborated with devOps engineers to setup ci/cd for company's software products.
- Oversaw data processing and generation for our analytics team needs.

ASU College of Health Solutions / Graduate Research Associate

May 2015 – April 2019, Arizona

Research assistant to Dr. Visar Berisha at Department of Speech and Hearing.

- Prosessed and analyzed public records of supreme court transcritps to research linguistic accomodation of supreme court justices
- Created sentiment analysis tools to analyze the mood of subjects. Both with textual medium as well as video analysis.

ASU Ira A. Fulton's Schools of Engineering / Graduate Research Assistant

Nov 2013 - May 2017, Arizona

Researcher for multi-static channel modeling project. Lead programmer for channel modeling simulation for bi-static, multiuser, air-ground-air wireless communication.

ASU Ira A. Fulton's Schools of Engineering / Engineering Tutor

Nov 2013 - May 2015, Arizona

Tutored engineering students in engineering cariculums including, calculus, differential eqs., physics, circuits, systems & signals, object oriented programing

Publications

Kawabata, K., Berisha, V., Scaglione, A., & LaCross, A. (2016). A Convex Model for Linguistic Influence in Group Conversations. In *INTERSPEECH* (pp. 1442-1446).

Stegmann, G., Hahn, S., Liss, J., Shefner, J., Ruktove, S., Kawabata, K., Bhandari, S., Shelton, K., Duncan, C., Berisha, V. (Under review). The Repeatability of Commonly Used Speech and Language Features for Clinical Applications. *Digital Biomarkers*.

Accomplishments

Co-inventor for patent TRACKING ARTICULATORY AND PROSODIC DEVELOPMENT IN CHILDREN

USPTO Application Number 62/906868

Winter Code Jam 6 Champion / Python Discord

<https://github.com/python-discord/code-jam-6/tree/master/tactless-tricksters>

<https://www.youtube.com/watch?v=8fbZsGrqBzo>

Mar 2019, Arizona

Dean's Fellowship / Ira A. Fulton Schools of Engineering

May 2016 – Aug 2017, Arizona

Region High Honors scholar / Arizona State University

Aug 2011- May 2015

Arizona State University Dean's List / Arizona State University

Aug 2011- May 2015

Micro Air Vehicle Club / Arizona State University

Sept 2015 – Jan 2017, Arizona

Secretarial Position / Dec 2015 - Jan 2017

In charge of sending news letter weekly to club member updating on club events.

Tasked with weekly attendance tracking and other miscellaneous tasks.

Head of computer systems group / Dec 2015 - Jan 2017

In charge of weekly activities for the computer systems group in Micro Air Vehicle club. Planned and developed testing simulations for micro air vehicle flight logic for MAV student challenge .

Education

Arizona State University / M.S.E. in Electrical Engineering

Aug 2015 - May 2018, Arizona

Cumulative GPA 3.75

Arizona State University / B.S. in Electrical Engineering

Aug 2011 - May 2015, Arizona

Cumulative GPA 3.66