

Kohki Mametani

Curriculum Vitae

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Education

- 2015 – 2019
Apr Exp. Mar **Bachelor of Engineering**, *Doshisha University*, Kyoto, Japan.
- Department of Intelligent Information Engineering and Science
- Thesis: Diagnostic classifiers reveal context features hidden in End-to-End TTS
- 2019 – 2020
Exp. Sep Exp. Jul **Master in Sound and Music Computing**, *Pompeu Fabra University*, Barcelona, Spain.
- Accepted for academic year 2019 – 2020

Experience

- 2019 – present
Apr **Engineering Intern**, *Qosmo*, Tokyo, Japan.
- Working on audio signal processing in collaboration with Nao Tokui and Max Frenzel
- 2018 – 2018
Apr Jun **Research Assistant**, *Doshisha University*, Kyoto, Japan.
- Assisted Prof. Tsuneo Kato in his corpus creation project
- Developed a phoneme segmentation tool with HTK along with its Python wrapper
- Increased manual segmentation productivity by twice as much

Publications

- 2019
Exp. May **Investigating context features hidden in End-to-End TTS.**
- Analyzed hidden states of a neural network with a diagnostic classifier
- Conducted a novel comparison between End-to-End TTS and HMM-based parametric TTS
- Accepted for the IEEE International Conference on Signal and Speech Processing 2019 (ICASSP)

Selected Projects

- 2018 – 2019
Dec Jan **NTT Corevo Challenge**, *Competitor*.
- Submitted deep learning model using Keras for audio classification (Gender x Age)
- 2017 – 2018
Sep Mar **Joytan**, *Maintainer*.
- Automated audio/textbook creation using speech synthesis and web-scraping
- Developed a cross-platform desktop application with PyQt5
- Built installers for Windows, Mac, and Linux along with a website to maintain releases
- 2017 – 2017
May Jun **Pycraft**, *Contributor*.
- Fixed design flaws in the code base and optimized object-oriented programs
- 2017 – 2017
Apr May **CGINC**, *Maintainer*.
- Developed a Povray-like raytracing software in C
- Implemented specular light computation and a CSG-model definition parser
- 2016 – 2016
Feb Mar **Trump Wall Breakout**, *Maintainer*.
- Developed an Android game using libGDX.

Extracurricular Activity

- 2018 – present
Jan **Joytan App**, *Founder and Creator*.
- Semi-automatically producing language-teaching materials based on free bilingual corpora with core functionalities of Joytan
- Gained 6,000+ subscribers & 400,000+ views on YouTube

Language skills

Japanese (Native) English (Professional working proficiency) Chinese (Elementary)