

YUYA YAMAMOTO

yamathcy.github.io

#7D441, 1-2 Kasuga, Tsukuba, Ibaraki, Japan

Email: s2130507@u.tsukuba.ac.jp/yyamamoto13044aa@gmail.com

RESEARCH INTERESTS

Music information retrieval

- Singing voice processing/transcription
- Musical audio identification
- Musical audio synthesis

Audio analysis

- Low-resource audio/speech identification
- Environmental sound analysis/identification

EDUCATION

Ph.D (Informatics)

Graduate School of Comprehensive Human Science, University of Tsukuba
Supervisor: Hiroko Terasawa

Apr 2021 - Present

Master (Informatics)

Graduate School of Library, Information and Media Studies, University of Tsukuba
Supervisor: Yuzuru Hiraga

Apr 2019 - Mar 2021

Bachelor (Media science)

The College of Media Arts, Science and Technology, University of Tsukuba
Supervisor: Yuzuru Hiraga

Apr 2017 - Mar 2019

Bachelor (Mechanics) (retired)

Chuo University

Apr 2013 - Mar 2017

LANGUAGE & TECHNOLOGY SKILLS

Language	Japanese (native), English (fluent), Korean (entry)
Programming	Python, R, JavaScript, C#, C, C++
Software & Tools	AWS, Unity, Docker, LaTeX
Frameworks	PyTorch, Tensorflow, SpeechBrain, React.JS

WORK EXPERIENCE

Korea Advanced Institute of Science and Technology (KAIST)

Visiting student researcher (4 months)

Mentor: Juhan Nam

Worked on deep learning based singing technique analysis from real-world tracks

Aug 2022 - Dec 2022

Sigboost, Inc

Intern (2 weeks)

Worked on music annotation user interface using React.js

Feb 2022 - Mar 2022

National Institute of Advanced Industrial Science and Technology (AIST)

Aug 2019 - Sep 2019

Intern (4 weeks)

Worked on Singing style analysis and conversion.

CA Techkids

Oct 2017 - Oct 2021

Intern (4 years)

Worked as a tutor of programming, Unity engineering, and textbook maker (Unity course).

PUBLICATIONS (PEER REVIEWED)

Singing Technique Analysis with Correspondence to Musical Score on Imitative Singing of Popular Music

Yuya Yamamoto, Tomoyasu Nakano, Masataka Goto, Hiroko Terasawa.

IPSJ Journal (major revision, submitted), in Japanese.

PrimaDNN': A Characteristics-aware DNN customization for singing technique detection.

Yuya Yamamoto, Juhan Nam, Hiroko Terasawa.

In Proc. of EUSIPCO 2023 (To Appear).

Human-in-the-loop Chord Progression Generator with Generative Adversarial Network.

Yoshiteru Matsumoto, Hiroyoshi Ito, Hiroko Terasawa, Yuya Yamamoto, Yuzuru Hiraga, Masaki Matsubara.

In Proc. of APSIPA ASC 2022.

Analysis and Detection of Singing Techniques in Repertoires of J-POP Solo Singers.

Yuya Yamamoto, Juhan Nam, Hiroko Terasawa.

In Proc. of ISMIR 2022 (Overall acceptance rate: 43%, Special call session acceptance rate: 34%).

Deformable CNN and Imbalance-Aware Feature Learning for Singing Technique Classification.

Yuya Yamamoto, Juhan Nam, Hiroko Terasawa.

In Proc. of INTERSPEECH 2022 (Oral presentation, Acceptance rate: 50%).

Investigating Time-Frequency Representations for Audio Feature Extraction in Singing Technique Classification

Yuya Yamamoto, Juhan Nam, Hiroko Terasawa, Yuzuru Hiraga.

In Proc. of APSIPA ASC 2021.

AWARDS

IPSJ Yamashita SIG Research Award, from IPSJ, 2023

paper title: Analysis of frequency, acoustic characteristics, and occurrence location of singing techniques using imitated j-pop singing voice (at SIGMUS 132, 2021.)

Best presentation award (Best research), from IPSJ SIGMUS, 2021

Dean's award of University of Tsukuba, 2021

Student award, from IPSJ SIGMUS, 2019

ACTIVITY

Reviewing

- IEEE/ACM Transactions on Audio, Speech, and Language Processing: 2023

Organizing

- ISMIR 2022 paper reading meetup: Jan 2023

Talk

- ISMIR 2022 report, at SIGMUS 136. 2023

- Lightning talk on Music Analysis Meetup (MUANA) 2021, 2022

- Guest lecturer for Junior high school student (career development) 2021

- Guest lecturer at University of Tsukuba (course: Music and Acoustic Information Processing) 2021