Yuya Yamamoto

Last update: July 31st, 2022.

Personal Data

Name:	Yuya Yamamoto
Status:	Ph.D student at University of Tsukuba
Gender:	Male
Place	Ibaraki, Japan
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Research Interest

- **Music Information Retrieval (MIR)**
- **Audio processing**
- **Computational Musicology**
- **Machine Learning and Deep Learning**
- **Statistics**

Work Experience

02/2022–03/2022, 07/2022	Internship, sigboost inc., Online, Japan
10/2017–09/2021	Part-time Unity teacher, CA Techkids, Tokyo, Japan
02/2018–09/2021	Unity Engineer, CA Techkids, Tokyo, Japan

Scientific Education

04/2021 – Present	**Ph.D student in Informatics** University of Tsukuba
04/2019 – 03/2021	**M.S. in Informatics** University of Tsukuba
04/2017 – 03/2019	**B.S. in Media Science and Technology** University of Tsukuba
04/2013 – 03/2017	**Precision Mechanics** Chuo University (Retired)

Technical Skills

Languages	Python, C/C++, C# (Also in Unity), Shell, LaTeX, SQL, HTML/CSS, R, JavaScript
Developer Tools	Git, Docker, Amazon Web Service, VS Code
Libraries	NumPy, pandas, PyTorch, Tensorflow, Librosa, React.js, Stan

Research Collaboration

08-09/2019, 04/2021-Present	**AIST Media Interaction Group Research internship**
Mentor	Tomoyasu Nakano and Masataka Goto
08/2020 - Present	**KAIST**
Mentor	Juhan Nam

Publications

Peer-reviewed

Yoshiteru Matsumoto, Hiroyoshi Ito, Hiroko Terasawa, Yuya Yamamoto, Yuzuru Hiraga, and Masaki Matsubara.
Human-in-the-loop Chord Progression Generator with Generative Adversarial Network.
In Proc. of APSIPA ASC 2022 (Submitted).

Yuya Yamamoto, Juhan Nam, and Hiroko Terasawa.
Analysis and Detection of Singing Techniques in Repetoires of J-POP Solo Singers.
In Proc. of ISMIR 2022 (Accepted) (Acceptance rate: 43%).

Yuya Yamamoto, Juhan Nam, and Hiroko Terasawa.
Deforamble CNN and Imbalance-Aware Feature Learning for Singing Technique Classification.
In Proc. of INTERSPEECH 2022 (Accepted) (Acceptance rate: 50%).

Yuya Yamamoto, Juhan Nam, Hiroko Terasawa, Yuzuru Hiraga.
Investigating Time-Frequency Representations for Audio Feature Extraction in Singing Technique Classification
In Proc. of APSIPA ASC 2021.

Non peer-reviewed

Yuya Yamamoto, Daichi Moriyama, Juhan Nam, and Hiroko Terasawa. **Towards computational analysis of singing technique for music information retrieval : A progress report of building dataset and statistical analysis** *In Proc. of the auditory research meeting.*

Yuya Yamamoto, Tomoyasu Nakano, Masataka Goto, Hiroko Terasawa, Yuzuru Hiraga. **Analysis of frequency, acoustic characteristics, and occurrence location of singing techniques using imitated j-pop singing voice** *The 132nd meeting of the Special Interest Group Technical Report of IPSJ (MUS), (in Japanese), 2021.*

Yuya Yamamoto, Juhan Nam, Hiroko Terasawa, Yuzuru Hiraga. **A comparison of hand-crafted feature and deep-extracted feature on singing technique classification** *The 130th meeting of the Special Interest Group Technical Report of IPSJ (MUS), (in Japanese), 2021.*

Yuya Yamamoto and Yuzuru Hiraga. **Towards calculations of singing difficulty in J-POP** *The 124th meeting of the Special Interest Group Technical Report of IPSJ (MUS), (in Japanese).*

Yuya Yamamoto and Yuzuru Hiraga. **Singing Difficulty of Japanese Popular Songs: Subjective Evaluation and their Relation to Musical Features** *In Proc. of JSMPC spring meeting 2019 (in Japanese).*

Scholarships and Certificates

2022.07	**ISMIR 2022 Student Author Grant**
	100% waiver of the conference registration fee
2021.10-2024.03	**Support for Pioneering Research Initiated by the Next Generation (SPRING)**
	Class 1; top 25 percentile, 500, 000 yen per year.

Awards

03/2023 (Prized)	**IPSJ Yamashita SIG Research Award (Equals to Annual Best Research Award of SIGMUS)** IPSJ, Japan
09/2021	**Best Presentation Award (Best Research)** IPSJ special interest group on music and computer (SIGMUS) Summer Symposium
03/2021	**Dean's Award (4/44)** Graduate School of Library, Information and Media Studies, University of Tsukuba.
08/2019	**Student Research Encouragement Award** IPSJ special interest group on music and computer (SIGMUS) Summer Symposium

Talks

06/2022	**Music x Analytics Meetup Vol.8** Title: Do it yourself:Music data handling with Sonic Visualiser Online
12/2021	**Music and Acoustic Information Processing** Course for undergraduates, University of Tsukuba Guest Lecturer
02/2021	**Music x Analytics Meetup Vol.4** Title: Let's analyze the difficulty of melody by cognitive music theory Online

Teaching assistant

2021 Autumn	**Music and Acoustic Information Processing**
2020 Autumn	**Information Media Experiment B**
2019 Spring	**Fundamentals of Acoustics and Speech Communication**