Yuya Yamamoto

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Personal Data

Name:	Yuya Yamamoto
Status:	Ph.D student at University of Tsukuba
Gender:	Male
Place:	Ibaraki, Japan
Language:	Japanese (Native), English (Intermediate), Korean (Basic)
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Research Interest

- **Music Information Retrieval (MIR)**

- **Audio processing**

- **Computational Musicology**

- **Machine Learning and Deep Learning**

- **Statistics**

Work & Internship Experience

08–12 2022	KAIST visiting researcher, Daejeon, Korea
02/2022–03/2022, 07/2022	Internship, sigboost inc., Online
08/2019–09/2019	Internship, AIST, Ibaraki, Japan
10/2017–09/2021	Part-time teacher of Unity for STEM education, 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, Masaki Matsubara.
Human-in-the-loop Chord Progression Generator with Generative Adversarial Network.
In Proc. of APSIPA ASC 2022 (Submitted).

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

Hiroko Terasawa, Mayumi Mizuno, Yuya Yamamoto, Haruki Oonaka, Yoshihide Ishikawa, Toshie Matsui, Keiichi Yasu.
Changes in the impressions of Japanese popular songs due to age-related hearing loss
In Proc. of ASJ autumn meeting 2020, (in Japanese), 2020.

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

2022.08 - 12	**University of Tsukuba Study Abroad Support Programs (Habatake! scholarship)** 60,000 yen per month.
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 (Music computing)**
2019 Spring	**Fundamentals of Acoustics and Speech Communication**

MISCELLANEOUS

2022	**Mentoring of master-student** Lecturerer of deep-learning for music and audio processing in lab. Mentees: Yoshiteru Matsumoto, Sayori Takayama, Tsugumasa Yutani, Shiho Akaki and Yan Han.
07/2022	**Awesome-music-informatics** A curation list of music informatics https://github.com/yamathcy/awesome-music-infomatics
08/2018	**Maker Faire Tokyo 2018** Title: Hakoniwa AR Unity AR Engineer