

Yuki SAITO (齋藤 佑樹)

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RESEARCH INTERESTS

Machine learning, signal processing, speech synthesis, and voice conversion

EDUCATIONAL BACKGROUNDS

- Current PhD Student in System #1 Lab. at the University of Tokyo, Japan.
(Supervised by Professor H. Saruwatari and Lecturer S. Koyama)
- Mar. 2018 M.S. degree in Information Science and Technology, Department of Creative Informatics, Graduate School of Information Science and Technology, The University of Tokyo, Japan.
- Mar. 2014 B.S. degree in Engineering, Advanced Course of Electronic and Information Systems Engineering, National Institute of Technology, Kushiro College, Japan.
- Mar. 2012 A.S. degree in Engineering, Department of Information Engineering, National Institute of Technology, Kushiro College, Japan.

RESEARCH AND WORK EXPERIENCES

- Sep. 2018—Mar. 2019 Short-time researcher in DeNA Co., Ltd., Japan.
- Apr. 2018—Mar. 2021 Research fellow (DC1) of Japan Society for the Promotion of Science, Japan.
- Aug. 2017—Oct. 2017 Short-time researcher in NTT Media Intelligence Laboratories, NTT Corporation, Japan.
- Aug. 2016—Sep. 2016 Short-time researcher in NTT Communication Science Laboratories, NTT Corporation, Japan.

PROFESSIONAL ACTIVITIES

- Sep. 2018—Current Paper Reviews for IEEE Signal Processing Letters (SPL)
- May. 2018—Current Paper Reviews for IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP)

VOLUNTEER WORKS

- Mar. 2017—Current Students and Young Researchers Forum of The Acoustical Society of Japan (ASJ), Japan (an official organization of ASJ)

COMPETITIVE FUNDS

- May. 2018 Grant-in-Aid for JSPS Fellows, Japan Society of the Promotion of Science (JSPS)
- Apr. 2018 Grants for Researchers Attending International Conferences from NEC C&C

AWARDS

- Jan. 2019 Outstanding Paper Award for Young C&C Researchers
- Nov. 2018 The 12th IEEE Signal Processing Society (SPS) Japan Student Journal Paper Award
- Aug. 2018 The Information and Systems Society (ISS) Young Researcher's Award in Speech Field of The Institute of Electronics, Information and Communication Engineers (IEICE)
- May. 2018 Partial Exemption from Repayment of Scholarship Loan for Students with Outstanding Results, Japan Student Services Organization (JASSO)
- Mar. 2018 The 34th Telecom System Technology Student Award, The Telecommunication Advancement Foundation (TAF)
- Nov. 2017 The 1st IEEE Signal Processing Society (SPS) Tokyo Joint Chapter Student Award
- Mar. 2017 The 14th Best Student Presentation Award of Acoustical Society of Japan (ASJ)
- Mar. 2017 Spoken Language Processing Student Grant Award of IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP)
- Jan. 2017 The Information and Science Society (ISS) Student Poster Award of the Institute of Electronics, Information and Communication Engineers (IEICE)
- Feb. 2016 Graduation Research Award, Advanced Course of Electronic and Information Systems Engineering, National Institute of Technology, Kushiro College
- Mar. 2014 Dean's Award, Department of Information Engineering, National Institute of Technology, Kushiro College

CO-AUTHOR'S AWARDS

- Mar. 2019 The 18th Best Student Presentation Award of Acoustical Society of Japan (ASJ) (Awardee: Satoshi Mizoguchi)
- Jun. 2018 Information Processing Society of Japan (IPSJ) Special Interest Group on Music and Computer (SIG-MUS) / Spoken Language Processing (SLP) Presentation Award (Awardee: Shinnosuke Takamichi)

LANGUAGES

Japanese (native) and English (conversant)

COMPUTER SKILLS

Programming Python, C, C#, C++, R, Java, JavaScript, Lisp (Scheme), Matlab

Web design Html, CSS

Other LaTeX, Word, Excel, PowerPoint, Unity

PUBLICATIONS (Google Scholar page: [here](#))

Original Journal Papers

1. **Yuki Saito**, Shinnosuke Takamichi, and Hiroshi Saruwatari, "Statistical parametric speech

synthesis incorporating generative adversarial networks,” IEEE/ACM Transactions on Audio, Speech, and Language Processing, vol. 26, no. 1, pp. 84—96, Jan. 2018. [[the most popular article in Dec. 2017—Dec. 2018, The 34th Telecom System Technology Student Award, The Telecommunication Advancement Foundation \(TAF\), The 12th IEEE Signal Processing Society \(SPS\) Japan Student Journal Paper Award](#)]

2. **Yuki Saito**, Shinnosuke Takamichi, and Hiroshi Saruwatari, “Voice conversion using input-to-output highway networks,” IEICE Transactions on Information and Systems, vol. E100-D, no. 8, pp. 1925—1928, Aug. 2017.

Peer-Reviewed International Conference Proceedings

1. Hiroki Tamaru, **Yuki Saito**, Shinnosuke Takamichi, Tomoki Koriyama, and Hiroshi Saruwatari, “Generative moment matching network-based random modulation postfilter for DNN-based singing voice synthesis and neural double-tracking,” Proceedings of The 44th IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP), pp. xxxx—xxxx, Brighton, UK, May. 2019 (ACCEPTED, to appear in SLP-P22.11).
2. Masakazu Une, **Yuki Saito**, Shinnosuke Takamichi, Daichi Kitamura, Ryoichi Miyazaki and Hiroshi Saruwatari, “Generative approach using the noise generation models for DNN-based speech synthesis trained from noisy speech,” Proceedings of The 10th Asia-Pacific Signal and Information Processing Association Annual Summit and Conference (APSIPA ASC), pp. 99—103, Hawaii, U.S.A., Nov. 2018. [[Invited Special Session](#)]
3. Shinnosuke Takamichi, **Yuki Saito**, Norihiro Takamune, Daichi Kitamura, and Hiroshi Saruwatari, “Phase reconstruction from amplitude spectrograms based on von-Mises-distribution deep neural network,” Proceedings of The 16th International Workshop on Acoustic Signal Enhancement (IWAENC), pp. 286—290, Tokyo, Japan, Sep. 2018.
4. **Yuki Saito**, Yusuke Ijima, Kyosuke Nishida, and Shinnosuke Takamichi, “Non-parallel voice conversion using variational autoencoders conditioned by phonetic posteriorgrams and d-vectors,” Proceedings of The 43rd IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP), pp. 5274—5278, Alberta, Canada, Apr. 2018. [[Grants for Researchers Attending International Conferences from NEC C&C, Outstanding Paper Award for Young C&C Researchers](#)]
5. **Yuki Saito**, Shinnosuke Takamichi, and Hiroshi Saruwatari, “Text-to-speech synthesis using STFT spectra based on low-/multi-resolution generative adversarial networks,” Proceedings of The 43rd IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP), pp. 5299—5303, Alberta, Canada, Apr. 2018.
6. Hiroyuki Miyoshi, **Yuki Saito**, Shinnosuke Takamichi, and Hiroshi Saruwatari, “Voice conversion using sequence-to-sequence learning of context posterior probabilities,” Proceedings of the 18th INTERSPEECH, pp. 1268—1272, Stockholm, Sweden, Aug. 2017.

7. **Yuki Saito**, Shinnosuke Takamichi, and Hiroshi Saruwatari, “Training algorithm to deceive anti-spoofing verification for DNN-based speech synthesis,” Proceedings of The 42nd IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP), pp. 4900—4904, New Orleans, U.S.A., Mar. 2017. [[Spoken Language Processing Student Grant Award](#)]
8. **Yuki Saito**, and Hiroshi Tenmoto, “Construction of highly interpretable classification rule based on linear SVM,” Proceedings of the 4th International Symposium on Technology for Sustainability (ISTS), Taipei, Taiwan, Nov. 2014.

MISC.

- Nov. 2018 I was invited to Google Research Talk, Google Tokyo, Japan.
- May 2018 I was invited to Google Speech Technology Summit 2018, Google London, UK. I talked about two research papers that were accepted to ICASSP 2018 at the poster session.
- Jan. 2018 A figure taken from our paper was used on the cover of the IEEE/ACM Transactions on Audio, Speech, and Language Processing ([January/February issue](#)).