WEN-CHIN HUANG

wen.chinhuang [at] g.sp.m.is.nagoya-u.ac.jp ◇ https://unilight.github.io/ ◇ +81-52-789-3809
wen-chin-huang-0b39ab138 ◇ unilight ◇ g71mJO4AAAAJ ◇ unilightwf

PROFESSIONAL EXPERIENCES

Nagoya University, Japan Apr. 2024 - Now
Assistant Professor, Graduate School of Informatics.

Institute of Information Science, Academia Sinica, Taiwan Jul. 2017 - Mar. 2019, Aug. 2020 - Mar. 2021
Research Assistant. Supervisor: Dr. Hsin-Min Wang, Dr. Yu Tsao

EDUCATION

Nagoya University Apr. 2021 - Mar. 2024
Ph.D. (Informatics), Graduate School of Informatics
Advisor: Prof. Tomoki Toda

Nagoya University Apr. 2019 - Mar. 2021
M.S., Graduate School of Informatics
Advisor: Prof. Tomoki Toda

National Taiwan University Sep. 2014 - Jun. 2018
B.S. in Computer Science & Information Science

ACADEMIC ACTIVITIES

Organizer/Committee Member

1. Organizing Committee, The Voice Conversion Challenge 2026
2. Special Session Co-Chair, The 15th International Symposium on Chinese Spoken Language Processing (ISCSLP) 2026
3. Organizing Committee, The Singing Voice Conversion Challenge 2025
4. Challenge session organizing committee, "The AudioMOS Challenge 2025" at ASRU 2025
5. Special session organizing committee, "The VoiceMOS Challenge 2024" at SLT 2024
6. Special session organizing committee, "The VoiceMOS Challenge 2023" at ASRU 2023
7. Special session organizing committee, "The Singing Voice Conversion Challenge 2023" at ASRU 2023
8. Special session organizing committee, "The VoiceMOS Challenge" at Interspeech 2022
9. Organizing Committee, Voice Conversion Challenge 2020

Reviewer

1. IEEE Transactions on Audio, Speech and Language Processing (TASLP)
2. Speech Communication
3. IEEE Speech Processing Letters
4. The Annual AAAI Conference on Artificial Intelligence
5. INTERSPEECH
6. IEEE Automatic Speech Recognition and Understanding Workshop (ASRU)
7. IEEE Spoken Language Technology Workshop (SLT)

HONORS

· **Outstanding Graduate Student Award**, from Nagoya University, Japan, June 2023

· **16th Student Journal Paper Award**, IEEE SPS Japan, Dec. 2022

- **Best Paper Award**, The 13th Asia Pacific Signal and Information Processing Association Annual Summit and Conference (APSIPA ASC), 2021
- **Best Student Paper Award**, The 11th International Symposium on Chinese Spoken Language Processing (ISCSLP), 2018

FUNDINGS

- **Grant-in-Aid for Early-Career Scientists (PI)**, Title: Research on a Novel Speech Synthesis Paradigm Balancing Creativity Design and Privacy Protection, total: 3,100,000 yen, Japan Society for the Promotion of Science, Apr, 2026 - Mar, 2029
- **Grant-in-Aid for Scientific Research (A) (Co-I)**, Title: Speech Media Generation Balancing Reliability and Controllability and its International Research Activities, PI: Prof. Tomoki Toda (Nagoya University, Japan), total: 1,440,000 yen, Japan Society for the Promotion of Science, Apr, 2026 - Mar, 2030
- **Grant-in-Aid for Scientific Research (B) (Co-I)**, Title: Universal, explainable and extensible automatic evaluation of synthesized speech, PI: Dr. Erica Cooper (NICT, Japan), total: 1,440,000 yen, Japan Society for the Promotion of Science, Apr, 2025 - Mar, 2029
- **Audiobox Responsible Generation Grant**, $50,000 USD Unrestricted Research Gift from Meta, received: Nov. 2024
- **Google Research Grant**, Unrestricted Research Gift from Google, received: Sep. 2024
- **Research Fellowship for Young Scientists (DC1)**, from Japan Society for the Promotion of Science (JSPS), April 2021 - March 2024
- **Scholarship for International Students**, from JEES Docomo, April 2019 - March 2021
- **INTERSPEECH 2019 Travel grant**, from ISCA, Sep. 2019

INVITED/VISITING TALKS

- W.-C. Huang, "Challenges in self-supervised speech representation-based voice conversion," ASA-ASJ Joint Meeting, 3aSC1, Honolulu, USA, Dec. 2025.
- W.-C. Huang, "Advancing Speech Quality Assessment Through Scientific Challenges and Open-Source Activities", Perspective talk, APSIPA ASC, Singapore, Oct. 2025
- W.-C. Huang, Erica Cooper, Jiatong Shi, "Automatic Quality Assessment for Speech and Beyond", Tutorial session, INTERSPEECH, Rotterdam, The Netherlands, Aug. 2025
- W.-C. Huang, "Automatic Quality Assessment for Speech and Beyond", Conversational AI Reading Group, MILA, online, May 2025
- W.-C. Huang, "Progress and Visions in Deep Learning based Voice Conversion", IPSJ-SLP/SP (Japanese domestic conference), Oct. 2024
- W.-C. Huang, "Fundamentals, Prospectives and Challenges in Deep-learning based Voice Conversion," Research Center for Information Technology Innovation (CITI), Academia Sinica, Taipei, Aug. 2024
- Erica Cooper, W.-C. Huang, "From human ears to deep neural networks: automatic evaluation of synthetic speech and audio data," Joint Workshop VoicePersonae and ASVspoof, Tokyo, Nov. 2023
- W.-C. Huang, Erica Cooper, "The VoiceMOS Challenge 2022", IPSJ-SLP/SP (Japanese domestic conference), Mar. 2022

COURSES

- Computer Science Experiments (a), School of Informatics, Nagoya University, 2025-2026
- Data Processing Tools, School of Informatics, Nagoya University, 2025-2026
- Probability and Statistics, School of Informatics, Nagoya University, 2024-2026
- Programming 2, School of Informatics, Nagoya University, 2024-2026

PUBLICATIONS

Journal Articles/Letters

[1] W.-C. Huang, E. Cooper, and T. Toda, "MOS-Bench: Benchmarking Generalization Abilities of Subjective Speech Quality Assessment Models," *IEEE Transactions on Audio, Speech and Language Processing*, vol. 34, pp. 2385–2397, 2026. DOI: 10.1109/TASLPRO.2026.3685883.

[2] B. M. Halpern, W.-C. Huang, L. P. Violeta, and T. Toda, "Severity-Controllable Pathological Text-to-Speech Synthesis for Clinical Applications," *IEEE Transactions on Neural Systems and Rehabilitation Engineering*, vol. 34, pp. 573–582, 2026. DOI: 10.1109/TNSRE.2026.3651761.

[3] T. Imamura, Y. Hashizume, W.-C. Huang, and T. Toda, "Music similarity representation learning focusing on individual instruments with source separation and human preference," *APSIPA Transactions on Signal and Information Processing*, vol. 14, no. 4, pp. 37–73, Oct. 2025. DOI: 10.1561/116.20250016. [Online]. Available: https://doi.org/10.1561/116.20250016.

[4] L. P. Violeta, W.-C. Huang, D. Ma, R. Yamamoto, K. Kobayashi, and T. Toda, "Resolving Domain Mismatches in Electrolaryngeal Speech Enhancement With Linguistic Intermediates," *IEEE Journal of Selected Topics in Signal Processing*, pp. 1–14, 2025.

[5] W.-C. Huang, Y.-C. Wu, and T. Toda, "Multi-speaker text-to-speech training with speaker anonymized data," *IEEE Signal Processing Letters*, vol. 31, pp. 2995–2999, 2024. DOI: 10.1109/LSP.2024.3482701.

[6] E. Cooper, W.-C. Huang, Y. Tsao, H.-M. Wang, T. Toda, and J. Yamagishi, "A review on subjective and objective evaluation of synthetic speech," *Acoustical Science and Technology*, vol. 45, no. 4, pp. 161–183, 2024.

[7] L. P. Violeta, D. Ma, W.-C. Huang, and T. Toda, "Pretraining and Adaptation Techniques for Electrolaryngeal Speech Recognition," *IEEE/ACM Transactions on Audio, Speech, and Language Processing*, vol. 32, pp. 2777–2789, 2024. DOI: 10.1109/TASLP.2024.3402557.

[8] S.-W. Yang, H.-J. Chang, Z. Huang, A. T. Liu, C.-I. Lai, H. Wu, J. Shi, X. Chang, H.-S. Tsai, W.-C. Huang, T.-H. Feng, P.-H. Chi, Y. Y. Lin, Y.-S. Chuang, T.-H. Huang, W.-C. Tseng, K. Lakhotia, S.-W. Li, A. Mohamed, S. Watanabe, and H.-Y. Lee, "A large-scale evaluation of speech foundation models," *IEEE/ACM Transactions on Audio, Speech, and Language Processing*, vol. 32, pp. 2884–2899, 2024. DOI: 10.1109/TASLP.2024.3389631.

[9] W.-C. Huang, S.-W. Yang, T. Hayashi, and T. Toda, "A Comparative Study of Self-Supervised Speech Representation Based Voice Conversion," *IEEE Journal of Selected Topics in Signal Processing*, vol. 16, no. 6, pp. 1308–1318, 2022.

[10] W.-C. Huang, T. Hayashi, Y. .-. Wu, H. Kameoka, and T. Toda, "Pretraining techniques for sequence-to-sequence voice conversion," *IEEE/ACM Transactions on Audio, Speech, and Language Processing*, vol. 29, pp. 745–755, 2021.

[11] W.-C. Huang, H. Luo, H.-T. Hwang, C.-C. Lo, Y.-H. Peng, Y. Tsao, and H.-M. Wang, "Unsupervised Representation Disentanglement Using Cross Domain Features and Adversarial Learning in Variational Autoencoder Based Voice Conversion," *IEEE Transactions on Emerging Topics in Computational Intelligence*, vol. 4, no. 4, pp. 468–479, 2020. DOI: 10.1109/TETCI.2020.2977678.

[12] X. Wang, J. Yamagishi, M. Todisco, H. Delgado, A. Nautsch, N. Evans, M. Sahidullah, V. Vestman, T. Kinnunen, K. A. Lee, L. Juvela, P. Alku, Y.-H. Peng, H.-T. Hwang, Y. Tsao, H.-M. Wang, S. L. Maguer, M. Becker, F. Henderson, R. Clark, Y. Zhang, Q. Wang, Y. Jia, K. Onuma, K. Mushika, T. Kaneda, Y. Jiang, L.-J. Liu, Y.-C. Wu, W.-C. Huang, T. Toda, K. Tanaka, H. Kameoka, I. Steiner, D. Matrouf, J.-F. Bonastre, A. Govender, S. Ronanki, J.-X. Zhang, and Z.-H. Ling, "Asvspoof 2019: A large-scale public database of synthetized, converted and replayed speech," *Computer Speech & Language*, vol. 64, p. 101 114, 2020.

Peer-reviewed Conferences and Workshops

[13] L. P. Violeta, X. Zhang, J. Shi, Y. Yasuda, W.-C. Huang, Z. Wu, and T. Toda, "The Singing Voice Conversion Challenge 2025: From Singer Identity Conversion to Singing Style Conversion," in *Proc. ICASSP*, 2026, pp. 17 707–17 711.

[14] W.-C. Huang, H. Wang, C. Liu, Y.-C. Wu, A. Tjandra, W.-N. Hsu, E. Cooper, Y. Qin, and T. Toda, "The AudioMOS Challenge 2025," in *Proc. ASRU*, Dec. 2025.

[15] W. Ren, Y.-C. Lin, W.-C. Huang, R. E. Zezario, S.-W. Fu, S.-F. Huang, E. Cooper, H. Wu, H.-Y. Wei, H.-M. Wang, *et al.*, "Highratemos: Sampling-rate aware modeling for speech quality assessment," in *Proc. ASRU*, Dec. 2025.

[16] J. Shi, B.-H. Su, S. Bharadwaj, Y. Zhao, S.-H. Wang, J. Han, H. Wang, W. Wang, W. Feng, Y. Tang, N. Topaloglu, S. Arora, J. Tian, W. Chen, H.-j. Shim, W. Zhang, W.-C. Huang, and S. Watanabe, "Versa-v2:

A modular and scalable toolkit for speech and audio evaluation with expanded metrics, visualization, and llm integration," in *Proc. ASRU*, Dec. 2025.

[17] W.-C. Huang, "Advancing speech quality assessment through scientific challenges and open-source activities," in *Proc. APSIPA ASC*, Oct. 2025, pp. 2552–2557. DOI: 10.1109/APSIPAASC65261.2025.11249197.

[18] K. Hattori, W.-C. Huang, K. Takeda, and T. Toda, "An evaluation of supervised virtual microphone estimators in reverberant sound fields," in *Proc. APSIPA ASC*, Oct. 2025, pp. 125–130. DOI: 10.1109/APSIPAASC65261.2025.11249347.

[19] M. Kaneko, W.-C. Huang, and T. Toda, "Estimating speaker's seating position from monaural speech in a simulated vehicle interior sound field," in *Proc. APSIPA ASC*, Oct. 2025, pp. 625–629. DOI: 10.1109/APSIPAASC65261.2025.11249106.

[20] M. Matsumoto, T. Fujimura, W.-C. Huang, and T. Toda, "Adjusting bias in anomaly scores via variance minimization for domain-generalized discriminative anomalous sound detection," in *Proc. DCASE*, Oct. 2025.

[21] H. Miyaji, K. Sawada, W.-C. Huang, and T. Toda, "Designing a music difficulty measure for controllable automatic piano rearrangement," in *Proc. APSIPA ASC*, Oct. 2025, pp. 246–251. DOI: 10.1109/APSIPAASC65261.2025.11249163.

[22] Y. Nakata, D. Yoshioka, W.-C. Huang, and T. Toda, "Disfluency disentanglement enhancement in spoken-text-style transfer for spontaneous speech synthesis," in *Proc. APSIPA ASC*, Oct. 2025, pp. 1098–1103. DOI: 10.1109/APSIPAASC65261.2025.11248977.

[23] K. Sawada, W.-C. Huang, and T. Toda, "Hierarchical symbolic music generation with variational autoencoder-based bar-wise feature sequences," in *Proc. APSIPA ASC*, Oct. 2025, pp. 299–304. DOI: 10.1109/APSIPAASC65261.2025.11249414.

[24] K. Ogita, R. Yoneyama, W.-C. Huang, and T. Toda, "Vae-sifigan: Source-filter hifi-gan based on variational autoencoder representations with enhanced pitch controllability," in *Proc. EUSIPCO*, Sep. 2025, pp. 531–535. DOI: 10.23919/EUSIPCO63237.2025.11226579.

[25] L. P. Violeta, W.-C. Huang, and T. Toda, "Serenade: A singing style conversion framework based on audio infilling," in *Proc. EUSIPCO*, Sep. 2025, pp. 411–415. DOI: 10.23919/EUSIPCO63237.2025.11226227.

[26] W.-C. Huang, E. Cooper, and T. Toda, "SHEET: A Multi-purpose Open-source Speech Human Evaluation Estimation Toolkit," in *Proc. Interspeech*, 2025, 2355–2359.

[27] K. Nishizawa, R. Yamamoto, W.-C. Huang, and T. Toda, "Investigating factors related to the naturalness of synthesized unison singing," in *Proc. ICASSP*, 2025, pp. 1–5.

[28] Z. Zhang, W.-C. Huang, X. Wang, X. Miao, and J. Yamagishi, "Mitigating Language Mismatch in SSL-Based Speaker Anonymization," in *Interspeech 2025*, 2025, 5133–5137. DOI: {10.21437/Interspeech.2025-1469}.

[29] W.-C. Huang, S.-W. Fu, E. Cooper, R. E. Zezario, T. Toda, H.-M. Wang, J. Yamagishi, and Y. Tsao, "The VoiceMOS Challenge 2024: Beyond Speech Quality Prediction," in *Proc. ASRU*, 2024.

[30] B. M. Halpern, T. Tienkamp, W.-C. Huang, L. P. Violeta, T. Rebernik, S. de Visscher, M. Witjes, M. Wieling, D. Abur, and T. Toda, "Quantifying the Effect of Speech Pathology on Automatic and Human Speaker Verification," in *Proc. Interspeech*, 2024, pp. 3015–3019. DOI: 10.21437/Interspeech.2024-1400.

[31] L. P. Violeta, W.-C. Huang, D. Ma, R. Yamamoto, K. Kobayashi, and T. Toda, "Electrolaryngeal Speech Intelligibility Enhancement through Robust Linguistic Encoders," in *Proc. ICASSP*, 2024, pp. 10 961–10 965. DOI: 10.1109/ICASSP48485.2024.10447197.

[32] W.-C. Huang, E. Cooper, Y. Tsao, H.-M. Wang, T. Toda, and J. Yamagishi, "The VoiceMOS Challenge 2023: Zero-shot Subjective Speech Quality Prediction for Multiple Domains," in *Proc. ASRU*, 2023.

[33] W.-C. Huang, B. Peloquin, J. Kao, C. Wang, H. Gong, E. Salesky, Y. Adi, A. Lee, and P.-J. Chen, "A Holistic Cascade System, Benchmark, and Human Evaluation Protocol for Expressive Speech-to-Speech Translation," in *Proc. ICASSP*, 2023, pp. 1–5.

[34] W.-C. Huang and T. Toda, "Evaluating Methods for Ground-Truth-Free Foreign Accent Conversion," in *Proc. APSIPA ASC*, 2023.

[35] W.-C. Huang, L. Violeta, S. Liu, J. Shi, and T. Toda, "The Singing Voice Conversion Challenge 2023," in *Proc. ASRU*, 2023.

[36] B. Halpern, W.-C. Huang, L. Violeta, R. van Son, and T. Toda, "Improving Severity Preservation of Healthy-to-pathological Voice Conversion with Global Style Tokens," in *Proc. ASRU*, 2023.

[37] L. P. Violeta, D. Ma, W.-C. Huang, and T. Toda, "Intermediate Fine-Tuning Using Imperfect Synthetic Speech for Improving Electrolaryngeal Speech Recognition," in *Proc. ICASSP*, 2023, pp. 1–5.

[38] R. Yamamoto, R. Yoneyama, L. Violeta, W.-C. Huang, and T. Toda, "A comparative study of voice conversion models with large-scale speech and singing data: the T13 systems for the Singing Voice Conversion Challenge 2023," in *Proc. ASRU*, 2023.

[39] W.-C. Huang, E. Cooper, Y. Tsao, H.-M. Wang, J. Yamagishi, and T. Toda, "The VoiceMOS Challenge 2022," in *Proc. Interspeech*, 2022.

[40] W.-C. Huang, E. Cooper, J. Yamagishi, and T. Toda, "LDNet: Unified Listener Dependent Modeling in MOS Prediction for Synthetic Speech," in *Proc. ICASSP*, 2022.

[41] W.-C. Huang, B. M. Halpern, L. P. Violeta, O. Scharenborg, and T. Toda, "Towards Identity Preserving Normal to Dysarthric Voice Conversion," in *Proc. ICASSP*, 2022.

[42] W.-C. Huang, D. Markovic, A. Richard, I. D. Gebru, and A. Menon, "End-to-End Binaural Speech Synthesis," in *Proc. Interspeech*, 2022.

[43] W.-C. Huang, S.-W. Yang, T. Hayashi, H.-Y. Lee, S. Watanabe, and T. Toda, "S3PRL-VC: Open-source Voice Conversion Framework with Self-supervised Speech Representations," in *Proc. ICASSP*, 2022.

[44] E. Cooper, W.-C. Huang, T. Toda, and J. Yamagishi, "Generalization ability of MOS prediction networks," in *Proc. ICASSP*, 2022.

[45] H.-S. Tsai, H.-J. Chang, W.-C. Huang, Z. Huang, K. Lakhotia, S.-w. Yang, S. Dong, A. Liu, C.-I. Lai, J. Shi, *et al.*, "SUPERB-SG: Enhanced Speech processing Universal PERformance Benchmark for Semantic and Generative Capabilities," in *Proceedings of the 60th Annual Meeting of the Association for Computational Linguistics (Volume 1: Long Papers)*, 2022, pp. 8479–8492.

[46] L. P. Violeta, W.-C. Huang, and T. Toda, "Investigating Self-supervised Pretraining Frameworks for Pathological Speech Recognition," in *Proc. Interspeech*, 2022.

[47] C. Xie, Y.-C. Wu, P. L. Tobing, W.-C. Huang, and T. Toda, "Direct Noisy Speech Modeling for Noisy-to-noisy Voice Conversion," in *Proc. ICASSP*, 2022.

[48] W.-C. Huang, T. Hayashi, X. Li, S. Watanabe, and T. Toda, "On Prosody Modeling for ASR+TTS based Voice Conversion," in *Proc. ASRU*, 2021.

[49] W.-C. Huang, T. Hayashi, Y.-C. Wu, and T. Toda, "Any-to-One Sequence-to-Sequence Voice Conversion using Self-Supervised Discrete Speech Representations," in *Proc. ICASSP*, 2021, pp. 5944–5948.

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[51] W.-C. Huang, C.-H. Wu, S.-B. Luo, K.-Y. Chen, H.-M. Wang, and T. Toda, "Speech recognition by simply fine-tuning bert," in *Proc. ICASSP*, 2021, pp. 7343–7347.

[52] Y.-W. Chen, K.-H. Hung, S.-Y. Chuang, J. Sherman, W.-C. Huang, X. Lu, and Y. Tsao, "Ema2s: An end-to-end multimodal articulatory-to-speech system," in *Proc. IEEE International Symposium on Circuits and Systems (ISCAS)*, 2021, pp. 1–5.

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[54] H. Kameoka, W.-C. Huang, K. Tanaka, T. Kaneko, N. Hojo, and T. Toda, "Many-to-many voice transformer network," *IEEE/ACM Transactions on Audio, Speech, and Language Processing*, vol. 29, pp. 656–670, 2021.

[55] K. Kobayashi, W.-C. Huang, Y.-C. Wu, P. L. Tobing, T. Hayashi, and T. Toda, "CRANK: an Open-Source Software for Nonparallel Voice Conversion based on Vetor-Quantized Variational Autoencoder," in *Proc. ICASSP*, 2021, pp. 5934–5938.

[56] D. Ma, W.-C. Huang, and T. Toda, "Investigation of Text-to-speech-based Synthetic Parallel Data for Sequence-to-sequence Non-parallel Voice Conversion," in *Proc. APSIPA ASC*, 2021.

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[59] Y.-S. Liou and W.-C. Huang and M.-C. Yen and S.-W. Tsai and Y.-H. Peng and T. Toda and Y. Tsao and H.-M. Wang, "Time Alignment using Lip Images for Frame-based Electrolaryngeal Voice Conversion," in *Proc. APSIPA ASC*, 2021.

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[63] W.-C. Huang, P. L. Tobing, Y.-C. Wu, K. Kobayashi, and T. Toda, "The NU Voice Conversion System for the Voice Conversion Challenge 2020: On the Effectiveness of Sequence-to-sequence Models and Autoregressive Neural Vocoders," in *Proc. Joint Workshop for the Blizzard Challenge and Voice Conversion Challenge 2020*, 2020, pp. 165–169.

[64] R. K. Das, T. Kinnunen, W.-C. Huang, Z.-H. Ling, J. Yamagishi, Z. Yi, X. Tian, and T. Toda, "Predictions of Subjective Ratings and Spoofing Assessments of Voice Conversion Challenge 2020 Submissions," in *Proc. Joint Workshop for the Blizzard Challenge and Voice Conversion Challenge 2020*, 2020, pp. 99–120.

[65] Z. Yi, W.-C. Huang, X. Tian, J. Yamagishi, R. K. Das, T. Kinnunen, Z.-H. Ling, and T. Toda, "Voice Conversion Challenge 2020 – Intra-lingual semi-parallel and cross-lingual voice conversion –," in *Proc. Joint Workshop for the Blizzard Challenge and Voice Conversion Challenge 2020*, 2020, pp. 80–98.

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[68] W.-C. Huang, Y.-C. Wu, C.-C. Lo, P. Lumban Tobing, T. Hayashi, K. Kobayashi, T. Toda, Y. Tsao, and H.-M. Wang, "Investigation of F0 Conditioning and Fully Convolutional Networks in Variational Autoencoder Based Voice Conversion," in *Proc. Interspeech*, 2019, pp. 709–713.

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MISCELLANEOUS

Open-source software development

- *JATTS: A modern, research-oriented Japanese Text-to-speech Open-sourced Toolkit*, `https://github.com/unilight/jatts`, 2025
- *SHEET: Speech Human Evaluation Estimation Toolkit*, `https://github.com/unilight/sheet`, 2024
- *S3PRL-VC: A Voice Conversion Toolkit based on S3PRL*, `https://github.com/unilight/s3prl-vc`, 2023
- *seq2seq-vc: A Sequence-to-sequence Voice Conversion Toolkit.* `https://github.com/unilight/seq2seq-vc`, 2023

Skills

- **Languages**: Mandarin (native), English (fluent; TOEIC 960, TOEFL 108), Japanese (business; JLPT N1)
- **Programming languages**: Python, shell script, C++
- **Deep learning frameworks**: PyTorch, TensorFlow, JAX

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