

Yanmin Qian's List of Publication

Thesis (2012s): Yanmin Qian. Study on New Speech Recognition Technology under Low Data Resource Conditions. PHD Thesis in Tsinghua University.

Book:

1. 俞栋, 邓力, 俞凯, 钱彦旻. 著作: 人工智能: 语音识别理解与实践. 电子工业出版社, 2020: ISBN 978-7-121-38143-0
2. 俞凯, 钱彦旻. 译著: 解析深度学习-语音识别实践. 电子工业出版社, 2016: ISBN 978-7-121-28796-1

Book Chapters:

1. Khe Chai Sim and Yanmin Qian. Adaptation of Deep Neural Network Acoustic Models for Robust Automatic Speech Recognition, in New Era for Robust Speech Recognition: Exploiting Deep Learning. Springer, 219-243, 2017: ISBN 978-3-319-64680-0
2. Pawel Swietojanski, Yulan Liu and Yanmin Qian. Distant Speech Recognition, in Natural Speech Technology. Cambridge University Press 2017.

Journal Papers:

1. Shuai Wang, Zhengyang Chen, Yanmin Qian and Haizhou Li. Speaker Modeling and Applications: From the Lens of Deep Speaker Representation Learning. Submitted to **IEEE/ACM Transactions on Audio, Speech, and Language Processing**, 2024.
2. Yidi Jiang, Ruijie Tao, Zhengyang Chen, Yanmin Qian and Haizhou Li. Target Speech Diarization with Multimodal Prompts. Submitted to **IEEE/ACM Transactions on Audio, Speech, and Language Processing**, 2024.
3. Junyi Ao, Mehmet Sinan Yildirim, Ruijie Tao, Meng Ge, Shuai Wang, Yanmin Qian and Haizhou Li. USED: Universal Speaker Extraction and Diarization. Submitted to **IEEE/ACM Transactions on Audio, Speech, and Language Processing**, 2024.
4. Xuankai Chang, Shinji Watanabe, Marc Delcroix, Tsubasa Ochiai, Wangyou Zhang and Yanmin Qian. Modular-based End-to-End Distant Speech Processing: a case study of far-field ASR. Submitted to **IEEE Signal Processing Magazine**, 2024.
5. Zhengyang Chen, Shuai Wang, Bing Han, Yanmin Qian (Corresponding author) . Unsupervised Domain Adaptation for Robust Speaker Verification. Submitted to **IEEE/ACM Transactions on Audio, Speech, and Language Processing**, 2024.
6. Yanmin Qian, Chenda Li, Wangyou Zhang and Shaoxiong Lin. Contextual Understanding with Contextual Embeddings for Multi-talker Speech Separation and Recognition in A Cocktail Party. Submitted to **IEEE/ACM Transactions on Audio, Speech, and Language Processing**, 2024.
7. Shuai Wang, Zhengyang Chen, Bing Han, Hongji Wang, Chengdong Liang, Binbin Zhang, Xu Xiang, Wen Ding, Johan Rohdin, Anna Silnova, Yanmin Qian and Haizhou Li. Advancing Speaker Embedding Learning: Wespeaker Toolkit for Research and Production. **Speech Communication**, vol. 162, 103104, 2024.
8. Bei Liu, Haoyu Wang and Yanmin Qian (Corresponding author) . Towards Lightweight Speaker Verification via Adaptive Neural Network Quantization. **IEEE/ACM Transactions on Audio, Speech, and Language Processing**, vol. 32, 3771-3784, 2024.
9. Jiahong Li, Chenda Li, Yifei Wu and Yanmin Qian (Corresponding author) . Unified Cross-Modal Attention: Robust Audio-Visual Speech Recognition and Beyond. **IEEE/ACM Transactions on Audio, Speech, and Language Processing**, vol. 32, 1941-1953, 2024.
10. Xun Gong, Yu Wu, Jinyu Li, Shujie Liu, Rui Zhao, Xie Chen and Yanmin Qian (Corresponding author) . Advanced Long-Content Speech Recognition with Factorized Neural Transducer. **IEEE/ACM Transactions on**

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- Audio, Speech, and Language Processing**, vol. 32, 1803-1815, 2024.
11. Zhengyang Chen, Bing Han, Shuai Wang and **Yanmin Qian (Corresponding author)** . Attention-Based Encoder-Decoder End-to-End Neural Diarization With Embedding Enhancer. **IEEE/ACM Transactions on Audio, Speech, and Language Processing**, vol. 32, 1636-1649, 2024.
 12. Wei Wang and **Yanmin Qian (Corresponding author)** . Universal Cross-Lingual Data Generation for Low Resource ASR. **IEEE/ACM Transactions on Audio, Speech, and Language Processing**, vol. 32, 973-983, 2024.
 13. Bing Han, Zhengyang Chen, **Yanmin Qian (Corresponding author)** . Self-Supervised Learning with Cluster-Aware-DINO for High-Performance Robust Speaker Verification. **IEEE/ACM Transactions on Audio, Speech, and Language Processing**, vol. 32, 529-541, 2024.
 14. Bei Liu, Zhengyang Chen, **Yanmin Qian (Corresponding author)** . Depth-First Neural Architecture with Attentive Feature Fusion for Efficient Speaker Verification. **IEEE/ACM Transactions on Audio, Speech, and Language Processing**, vol. 31, 1825-1838, 2023.
 15. Shaoxiong Lin, Wangyou Zhang and **Yanmin Qian**. Two-Stage Single-Channel Speech Enhancement with Multi-Frame Filtering. **Applied Sciences**, vol. 1, 1-14, 2023.
 16. Wangyou Zhang, Xuankai Chang, Christoph Boeddeker, Tomohiro Nakatani, Shinji Watanabe and **Yanmin Qian (Corresponding author)** . End-to-End Dereverberation, Beamforming, and Speech Recognition in A Cocktail Party. **IEEE/ACM Transactions on Audio, Speech, and Language Processing**, vol. 30, 3173-3188, 2022.
 17. Sanyuan Chen, Chengyi Wang, Zhengyang Chen, Yu Wu, Shuijie Liu, Zhuo Chen, Jinyu Li, Naoyuki Kanda, Takuya Yoshioka, Xiong Xiao, Jian Wu, Long Zhou, Shuo Ren, **Yanmin Qian**, Yao Qian, Jian Wu, Michael Zeng and Furu Wei. WavLM: Large-Scale Self-Supervised Pre-Training for Full Stack Speech Processing. **IEEE Journal of Selected Topics in Signal Processing**, vol. 16, 1505-1518, 2022.
 18. **Yanmin Qian**, Xun Gong, Houjun Huang. Layer-Wise Fast Adaptation for End-to-End Multi-Accent Speech Recognition. **IEEE/ACM Transactions on Audio, Speech, and Language Processing**, vol. 30, 2842-2853, 2022.
 19. Chenda Li, Zhuo Chen, **Yanmin Qian (Corresponding author)** . Dual-Path Modeling with Memory Embedding Model for Continuous Speech Separation. **IEEE/ACM Transactions on Audio, Speech, and Language Processing**, vol. 30, 1508-1520, 2022.
 20. **Yanmin Qian**, Zhikai Zhou. Optimizing Data Usage for Low-Resource Speech Recognition. **IEEE/ACM Transactions on Audio, Speech, and Language Processing**, vol. 30, 394-403, 2022.
 21. **Yanmin Qian**, Zhengyang Chen and Shuai Wang. Audio-Visual Deep Neural Network for Robust Person Verification. **IEEE/ACM Transactions on Audio, Speech, and Language Processing**, vol. 29, 1079-1092, 2021.
 22. Jichen Yang, Hongji Wang, Rohan Kumar Das and **Yanmin Qian (Corresponding author)** . Modified Magnitude-Phase Spectrum Information for Spoofing Detection. **IEEE/ACM Transactions on Audio, Speech, and Language Processing**, vol. 29, 1065-1078, 2021.
 23. Shuai Wang, Yexin Yang, Zhanghao Wu, **Yanmin Qian (Corresponding author)** and Kai Yu. Data Augmentation using Deep Generative Models for Embedding based Speaker Recognition. **IEEE/ACM Transactions on Audio, Speech, and Language Processing**, vol. 28, 2598-2609, 2020.
 24. Wangyou Zhang, Xuankai Chang, **Yanmin Qian (Corresponding author)** and Shinji Watanabe. Improving End-to-End Single-Channel Multi-Talker Speech Recognition. **IEEE/ACM Transactions on Audio, Speech, and Language Processing**, vol. 28, 1385-1394, 2020.
 25. Zhehuai Chen, Wenlu Zheng, Yongbin You, **Yanmin Qian**, Kai Yu. Label Synchronous Decoding for Speech Recognition. **Chinese Journal of Computers**, 42 (7), 1511-1523, 2019.

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26. **Yanmin Qian**, Hu Hu, Tian Tan. Data Augmentation using Generative Adversarial Networks for Robust Speech Recognition. **Speech Communication**, vol. 114, 1-9, 2019.
 27. Shuai Wang, Zili Huang, **Yanmin Qian (Corresponding author)** , Kai Yu. Discriminative Neural Embedding Learning for Short-Duration Text-Independent Speaker Verification. **IEEE/ACM Transactions on Audio, Speech, and Language Processing**, vol. 27, no. 11, 1686-1696, 2019.
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 29. **Yanmin Qian**, Xuankai Chang, Dong Yu. Single-Channel Multi-talker Speech Recognition with Permutation Invariant Training. **Speech Communication**, vol. 104, 1-11, 2018.
 30. Zhehuai Chen, **Yanmin Qian (Corresponding author)** , Kai Yu. Sequence Discriminative Training for Deep Learning based Keyword Spotting. **Speech Communication**, vol. 102, 100-111, 2018.
 31. Heinrich Dinkel, **Yanmin Qian (Corresponding author)** , Kai Yu. Investigating Raw Wave Deep Neural Networks for End-to-End Speaker Spoofing Detection. **IEEE/ACM Transactions on Audio, Speech, and Language Processing**, vol. 26, no. 11, 2002-2014, 2018.
 32. Tian Tan, **Yanmin Qian (Corresponding author)** , Hu Hu, Ying Zhou, Wen Ding, Kai Yu. Adaptive Very Deep Convolutional Residual Network for Noise Robust Speech Recognition. **IEEE/ACM Transactions on Audio, Speech, and Language Processing**, vol. 26, no. 8, 1393-1405, 2018.
 33. **Yanmin Qian**, Chao Wen, Xuankai Chang, Shuai Wang, Dong Yu. Past Review, Current Progress, and Challenges Ahead on the Cocktail Party Problem. **Frontiers of Information Technology & Electronic Engineering**, 19 (1), 40-63, 2018. (Invited Survey Paper)
 34. Ruinian Chen, Ying Zhou and **Yanmin Qian (Corresponding author)** . Emotion Recognition using Support Vector Machine and Deep Neural Network. Accepted by Springer Lecture Notes in Computer Science (LNCS), 2018.
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 40. **Yanmin Qian**, Nanxin Chen, Kai Yu. Deep Features for Automatic Spoofing Detection. **Speech Communication**, vol. 85, 43-52, 2016.
 41. Yuan Liu, **Yanmin Qian (Corresponding author)** , Nanxin Chen, Tianfan Fu, Ya Zhang and Kai Yu. Deep

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- Feature for Text-dependent Speaker Verification. **Speech Communication**, vol. 73, 1-13, 2015.
42. **Yanmin Qian**, Jia Liu, Michael T Johnson. Efficient embedded speech recognition for very large vocabulary Mandarin car-navigation systems. **IEEE Transactions on Consumer Electronic**, 2009, 55(3):1496-1500.
 43. **Yanmin Qian**, Yuxiang Shan, Linfang Wang, Jia Liu. Improvement comparison of different lattice-based discriminative training methods in Chinese-Monolingual and Chinese-English Bilingual speech recognition. **ACTA AUTOMATICA SINICA**, 2012, 38(7):1162-1168.
 44. **Yanmin Qian**, Ji Xu, Jia Liu. Multi-Stream posterior features and combining Subspace Gmms for low resource LVCSR. **Chinese Journal of Electronics**, 2013, 22(2): 291-295.
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 46. **Yanmin Qian**, Jia Liu. Optimized data selection strategy based unsupervised acoustic modeling for low data resource speech recognition. **Tsinghua Science and Technology**, 2013, 53(7): 1001-1004+1010.
 47. Hong Liu, **Yanmin Qian**, Jia Liu. English speech recognition system on chip. **Tsinghua Science and Technology**, 2011, 16(1):95-99.
 48. Yan Deng, Weiqiang Zhang, **Yanmin Qian**, Jia Liu. Language recognition based on acoustic diversified phone recognizers and phonotactic feature fusion. **IEICE Transactions on Information and Systems**, 2011, E94-D(3):679-689.
 49. Yan Deng, Weiqiang Zhang, **Yanmin Qian**, Jia Liu. Time-Frequency cepstral features and combining discriminative training for phonotactic language recognition. **Journal of Computers**, 2011, 6(2):178-183.
 50. Hua Yuan, **Yanmin Qian**, Junhong Zhao, Jia Liu. Mispronunciation detection with an optimized detection network and multi-layer perception based features. **Tsinghua Science and Technology**, 2012, 52(4):557-560+570.

Conference Papers:

51. Leying Zhang, Yao Qian, Linfeng Yu, Heming Wang, Hemin Yang, Shujie Liu, Long Zhou, **Yanmin Qian**. DDTSE: Discriminative Diffusion Model for Target Speech Extraction. Submitted to **SLT**, Macao, China, 2024.
52. Hang Shao, Bei Liu, Wei Wang, Xun Gong and **Yanmin Qian**. DQ-Whisper: Joint Distillation and Quantization for Efficient Multilingual Speech Recognition. Submitted to **SLT**, Macao, China, 2024.
53. Chenda Li, Samuele Cornell, Shinji Watanabe and **Yanmin Qian**. Diffusion-based Generative Modeling with Discriminative Guidance for Streamable Speech Enhancement. Submitted to **SLT**, Macao, China, 2024.
54. Xihu Zheng, Anbai jiang, Bing Han, **Yanmin Qian**, Pingyi Fan, Jia Liu and Wei-Qiang Zhang. Improving Anomalous Sound Detection via Low-Rank Adaptation Fine-Tuning of Pre-Trained Audio Models. Submitted to **SLT**, Macao, China, 2024.
55. Zhengyang Chen, Shuai Wang, Mingyang Zhang, Xuechen Liu, Junichi Yamagishi and **Yanmin Qian**. Disentangling the Prosody and Semantic Information with Pre-trained Model for In-Context Learning based Zero-Shot Voice Conversion. Submitted to **SLT**, Macao, China, 2024.
56. Bing Han, Long Zhou, Shujie Liu, Lingwei Meng, **Yanmin Qian**, Yanqing Liu, Sheng Zhao, Jinyu Li and Furu Wei. VALL-E R: Robust and Efficiency Zero-Shot Text-to-Speech via Monotonic Alignment. Submitted to **SLT**, Macao, China, 2024.
57. Jiahe Wang, Shuai Wang, Junjie Li, Ke Zhang, **Yanmin Qian** and Haizhou Li. Enhancing Speaker Extraction Through Rectifying Target Confusion. Submitted to **SLT**, Macao, China, 2024.
58. Leying zhang, Yao Qian, Long Zhou, Shujie Liu, Dongmei Wang, Xiaofei Wang, Midia Yousefi, **Yanmin Qian**, Jinyu Li, Lei He, Sheng Zhao and Michael Zeng. CoVoMix: Advancing Zero-Shot Speech Generation for

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- Human-like Multi-talker Conversations. Submitted to **NeurIPS**, Vancouver, Canada, 2024.
59. Chenyang Le, Yao Qian, Dongmei Wang, Long Zhou, Shujie Liu, Xiaofei Wang, Midia Yousefi, **Yanmin Qian**, Jinyu Li and Michael Zeng. TransVIP: Speech to Speech Translation System with Voice and Isochrony Preservation. Submitted to **NeurIPS**, Vancouver, Canada, 2024.
 60. Haoyu Wang, Bei Liu, Hang Shao, Bo Xiao, Ke Zeng, Guanglu Wan and **Yanmin Qian**. CLAQ: Pushing the Limits of Low-Bit Post-Training Quantization for LLMs. Submitted to **NeurIPS**, Vancouver, Canada, 2024.
 61. Wangyou Zhang, Robin Scheibler, Kohei Saijo, Samuele Cornell, Chenda Li, Zhaoheng Ni, Jan Pirklbauer, Marvin Sach, Shinji Watanabe, Tim Fingscheidt and **Yanmin Qian**. NeurIPS 2024 Competition Proposal: URGENT Challenge. Accepted by **NeurIPS 2024 Competition Track**, Vancouver, Canada, 2024.
 62. Tingxiao Zhou, Leying Zhang and **Yanmin Qian**. Knowledge Distillation from Discriminative Model to Generative Model with Parallel Architecture for Speech Enhancement. Accepted by **ISCSLP**, Beijing, China, 2024.
 63. Wen Huang, Bing Han, Zhengyang Chen, Shuai Wang and **Yanmin Qian**. Prototype and Instance Contrastive Learning for Unsupervised Domain Adaptation in Speaker Verification. Accepted by **ISCSLP**, Beijing, China, 2024.
 64. Haoxiang Hou, Xun Gong and **Yanmin Qian**. ConMamba: A Convolution-Augmented Mamba Encoder Model for Efficient End-to-End ASR Systems. Accepted by **ISCSLP**, Beijing, China, 2024.
 65. Zhengyang Chen, Shuai Wang, Bing Han and **Yanmin Qian**. Combining the Self-supervised Learning and Adversarial Training based Domain Adaptation for Speaker Verification. Accepted by **ISCSLP**, Beijing, China, 2024.
 66. Xin Zhou, Wangyou Zhang, Chenda Li and **Yanmin Qian**. Insights from Hyperparameter Scaling of Online Speech Separation. Accepted by **ISCSLP**, Beijing, China, 2024.
 67. Siyi Zhao, Wei Wang and **Yanmin Qian**. Band-wise Front-end Distortion Suppression for Robust Speech Recognition. Accepted by **ISCSLP**, Beijing, China, 2024.
 68. Tianteng Gu, Bei Liu, Hang Shao and **Yanmin Qian**. SparseWAV: Fast and Accurate One-Shot Unstructured Pruning for Large Speech Foundation Models. Accepted by **InterSpeech**, Kos Island, Greece, 2024.
 69. Xun Gong, Anqi Lv, Zhiming Wang and **Yanmin Qian**. Contextual Biasing Speech Recognition in Speech-based Large Language Model. Accepted by **InterSpeech**, Kos Island, Greece, 2024.
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81. Shuai Wang, Qibing Bai, Qi Liu, Jianwei Yu, Zhengyang Chen, Bing Han, **Yanmin Qian** and Haizhou Li. Leveraging In-the-Wild Data for Effective Self-Supervised Pretraining in Speaker Recognition. In proceedings of **ICASSP**, Seoul, Korea, 2024: 10901-10905.
82. Yidi Jiang, Zhengyang Chen, Ruijie Tao, Liqun Deng, **Yanmin Qian**, Haizhou Li. Prompt-driven Target Speech Diarization. In proceedings of **ICASSP**, Seoul, Korea, 2024: 11086-11090.
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89. Shaoxiong Lin, Chao Zhang and **Yanmin Qian**. Improving Speech Enhancement Using Audio Tagging Knowledge from Pre-trained Representations and Multi-task Learning. In proceedings of **ASRU**, Taipei, Taiwan, 2023.
90. Chang Chen, Xun Gong and **Yanmin Qian**. Efficient Text-Only Domain Adaptation for CTC-based ASR. In

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 94. Zhiqiang Lv, Bing Han, Zhengyang Chen, **Yanmin Qian**, Jiawei Ding and Jia Liu. Unsupervised Anomalous Detection based on Unsupervised Pretrained Models. In proceedings of **DCASE-Challenge**, 2023.
 95. Yoshiki Masuyama, Xuankai Chang, Wangyou Zhang, Samuele Cornell, Zhong-Qiu Wang, Nobutaka Ono, **Yanmin Qian** and Shinji Watanabe. Exploring the Integration of Speech Separation and Recognition with Self-Supervised Learning Representation. In proceedings of **WASPAA**, New Paltz, USA, 2023.
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 101. Zhengyang Chen, Bing Han, Xu Xiang, Houjun Huang, Bei Liu and **Yanmin Qian**. Build A SRE Challenge System: Lessons From VOXSRC 2022 and CNSRC 2022. In proceedings of **InterSpeech**, Dublin, Ireland, 2023: 3202-3206.
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 105. Wei Wang and **Yanmin Qian**. UniSplice: Universal Cross-Lingual Data Splicing for Low-Resource ASR. In proceedings of **InterSpeech**, Dublin, Ireland, 2023: 2253-2257.
 106. Wei Wang, Xun Gong, Hang Shao, Dongning Yang and **Yanmin Qian**. Text Only Domain Adaptation with Phoneme Guided Data Splicing for End-to-End Speech Recognition. In proceedings of **InterSpeech**, Dublin, Ireland, 2023: 3347-3351.

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