

YUEQIAN LIN

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EDUCATION

Duke Kunshan University

B.S. in Data Science (By Duke Kunshan)

B.S. in Interdisciplinary Studies (Subplan: Data Science; by Duke)

• GPA 3.99/4.00; GRE: 329/340; TOEFL: 111/120

• Kunshan Full Scholarship (merit-based)

• National Endeavor Scholarship (2021, 2022)

• DKU Summer Research Scholarship (2022, 2023)

• Dean's List with Distinction (Fall 2020/Spring 2021/Fall 2021/Spring 2022/Fall 2022)

• Dean's List (Spring 2023)

• Natural & Applied Sciences Division Award (2020-21)

August 2020 - May 2024

Kunshan, China

Durham, USA

PUBLICATIONS & MANUSCRIPTS

- **Yueqian Lin**, Dong Liu, Yunfei Xu, Hongbin Suo, and Ming Li. Bridging facial imagery and vocal reality: Stable diffusion-enhanced voice generation, 2024. Manuscript submitted to Interspeech 2024
 - Jiatong Shi*, **Yueqian Lin***, Xinyi Bai, Keyi Zhang, Yuning Wu, Yuxun Tang, Yifeng Yu, Qin Jin, and Shinji Watanabe. Singing voice data scaling-up: An introduction to ACE-Opencpop and KiSing-v2, 2024. Manuscript submitted to Interspeech 2024
 - Dong Liu, **Yueqian Lin**, Zexin Cai, Yunfei Xu, and Ming Li. TMCSPEECH: A Chinese TV and movie speech dataset with character descriptions and a character-based voice generation model, 2024. Manuscript submitted to IEEE Conference on Multimedia Expo 2024
 - **Yueqian Lin***, Jingyang Zhang*, Yiran Chen, and Hai Li. SD-NAE: Generating natural adversarial examples with stable diffusion. In *International Conference on Learning Representations 2024, Tiny Papers Track*, 2024
 - **Yueqian Lin** and Ming Li. EEG-based speech envelope decoding: Structured state space and U-Net model integration. In *National Conference on Man-Machine Speech Communication*, 2023
 - Huali Zhou*, **Yueqian Lin***, Yao Shi, Peng Sun, and Ming Li. BiSinger: Bilingual singing voice synthesis. In *IEEE Automatic Speech Recognition & Understanding*, 2023
 - Xingyu Shen*, **Yueqian Lin***, Zhixian Zhang*, and Xin Tong. RTVis: Research trend visualization toolkit. In *IEEE VIS: Visualization & Visual Analytics*, 2023
 - Jingyang Zhang, Jingkang Yang, Pengyun Wang, Haoqi Wang, **Yueqian Lin**, Haoran Zhang, Yiyu Sun, Xuefeng Du, Kaiyang Zhou, Wayne Zhang, Yixuan Li, Ziwei Liu, Yiran Chen, and Hai Li. OpenOOD v1. 5: Enhanced benchmark for out-of-distribution detection. In *NeurIPS Workshop on Distribution Shifts: New Frontiers with Foundation Models*, 2023
 - Kamlesh Bornani, Nicholas F Mendez, Abdullah S Altorbac, Alejandro J Mueller, **Yueqian Lin**, Eric Zhonghang Qu, Kai Zhang, Sanat K. Kumar, and Linda S Schadler. In situ atomic force microscopy tracking of nanoparticle migration in semicrystalline polymers. *ACS Macro Letters*, 11(6):818–824, 2022
- * indicates equal contribution

PROJECTS

Enhancing OOD Detection through Bayesian Optimizer-Trained Models

March 2023 - May 2023

- Spearheaded the development and validation of a Bayesian-based optimizer for training feature extraction models, accompanied by the creation of a novel data augmentation method to improve model robustness and safety.

Musical Note Detection through Classical Computer Vision Methods

March 2023 - May 2023

- Transcribed musical notes from a sheet music image using traditional computer vision techniques like Hough transform, morphological operations, and template matching.

Hands-on Machine Learning: an Introductory Website Approach

October 2022 - December 2022

- Built an interactive website using HTML, CSS and JS to introduce machine learning and deep learning concepts for beginners.

TECHNICAL STRENGTHS & CERTIFICATIONS

Programming Languages

Python, Java, C++, MATLAB, HTML, CSS, JavaScript, R, LaTeX, Markdown

Machine Learning

PyTorch, TensorFlow, Keras, Scikit-learn

Data Analysis

Pandas, NumPy, SciPy, Matplotlib, Seaborn, Tableau

Misc

Git, Linux, Jupyter Notebook, Docker

Certifications

Level 1 Tutor Certificate by College Reading and Learning Association

Machine Learning, Deep Learning Specialization by Coursera & DeepLearning.AI

Google Data Analysis by Coursera