

# Tingle Li

INCOMING PH.D. STUDENT, UC BERKELEY

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EDUCATION	<b>University of California, Berkeley</b> Incoming <i>Ph.D.</i> in Computer Science • Affiliated to Berkeley Artificial Intelligence Research (BAIR) Lab	Berkeley, CA Starting from <i>Aug. 2022</i>
	<b>Tiangong University</b> <i>B.Eng.</i> in Computer Science and Technology • Pilot class of Artificial Intelligence (an elite program for top 10% students) • <b>Advisor:</b> Prof. <i>Ming Li</i> (Duke Kunshan University)	Tianjin, CN <i>Sep. 2016 - Jun. 2020</i>

RESEARCH INTERESTS	<b>Audio Processing:</b> Source Separation, Voice Conversion, Music Information Retrieval <b>Multi-modal Perception:</b> Audio-visual Learning, Self-supervised Learning, Computer Vision
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PUBLICATIONS & PREPRINTS	<b>Tingle Li</b> , Yichen Liu, Andrew Owens, Hang Zhao. “Learning Visual Styles from Audio-Visual Associations”. In submission to <i>ECCV</i> , 2022.
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Chenzhuang Du, Jiaye Teng, **Tingle Li**, Yichen Liu, Yue Wang, Yang Yuan, Hang Zhao. “Modality Laziness: Everybody’s Business is Nobody’s Business”. In submission to *ICML*, 2022.

Chenxu Hu, Qiao Tian, **Tingle Li**, Yuxuan Wang, Hang Zhao. “Neural Dubber: Dubbing for Videos According to Scripts”. In *Proc. NeurIPS*, 2021.

**Tingle Li**, Yichen Liu, Chenxu Hu, Hang Zhao. “CVC: Contrastive Learning for Non-parallel Voice Conversion”. In *Proc. Interspeech*, 2021.

**Tingle Li**, Jiawei Chen, Haowen Hou, Ming Li. “Sams-Net: A Sliced Attention-based Neural Network for Music Source Separation”. In *Proc. ISCSLP*, 2021. (**Oral Presentation**)

Qingjian Lin, **Tingle Li**, Lin Yang, Junjie Wang, Ming Li. “Optimal Mapping Loss: A Faster Loss for End-to-End Speaker Diarization”. In *Proc. Odyssey*, 2020.

**Tingle Li**, Qingjian Lin, Yuanyuan Bao, Ming Li. “Atss-Net: Target Speaker Separation via Attention-based Neural Network”. In *Proc. Interspeech*, 2020.

Qingjian Lin, **Tingle Li**, Ming Li. “The DKU Speech Activity Detection and Speaker Identification Systems for Fearless Steps Challenge Phase-02”. In *Proc. Interspeech*, 2020.

RESEARCH EXPERIENCE	<b>Electrical Engineering and Computer Science</b> Advisor : Prof. <i>Andrew Owens</i> <i>Learning Visual Styles from Audio-Visual Associations</i> - Proposed a novel task termed <i>audio-driven image stylization</i> , which aims to convert the texture of a visual scene conditioned on sound (project page).	University of Michigan <i>Apr. 2021 - Present</i>
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	<b>Institute for Interdisciplinary Information Sciences (IIIS)</b> Advisor : Prof. <i>Hang Zhao</i> <i>CVC: Contrastive Learning for Non-parallel Voice Conversion</i> - Explored a voice conversion model based on noise contrastive estimation loss, which enables one-way conversion in the non-parallel voice conversion setting (project page).	Tsinghua University <i>Jul. 2020 - Present</i>
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*Neural Dubber: Dubbing for Videos According to Scripts*

- Introduced a novel task called *automatic video dubbing*, which aims to synthesize speech temporally synchronized with the video given scripts (project page).

*Modality Laziness: Everybody's Business is Nobody's Business*

- Discussed an optimization problem in multi-modal fusion methods, where encoders from multi-modal training suffer from learning insufficient representations of each modality (paper).

**Data Science Research Center**

Advisor : Prof. *Ming Li*

Duke Kunshan University

*Jul. 2019 – Jul. 2020*

*Atss-Net: Target Speaker Separation via Attention-based Neural Network*

- Proposed a method that leverages the attention mechanism to incorporate the mixture spectrogram and target speaker embedding (project page).

*Sams-Net: A Sliced Attention-based Neural Network for Music Source Separation*

- Proposed a method in which the scope of attention is narrowed down to the intra-chunk features that are most likely to affect each other (project page).

*Optimal Mapping Loss: A Faster Loss for End-to-End Speaker Diarization*

- Developed a novel optimal mapping loss between the output and ground-truth speaker sequences through the Hungarian algorithm (paper).

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AWARDS &  
ACHIEVEMENTS

Berkeley Graduate Student Fellowship	<i>Aug. 2022</i>
BAIR Research Ignition Award	<i>Aug. 2022</i>
ISCA Travel Grant Award, Interspeech 2021	<i>Jun. 2021</i>
Best Undergraduate Dissertation ( <b>top 1%</b> )	<i>Jun. 2020</i>
<b>1<sup>st</sup></b> for SID & <b>3<sup>rd</sup></b> for SAD, Fearless Steps Challenge Phase-2, Interspeech 2020	<i>May. 2020</i>
Presidential Scholarship for Outstanding Students ( <b>top 5%</b> )	<i>Dec. 2017, 2018, 2019</i>
<b>1<sup>st</sup></b> Prize, China Students Innovation and Entrepreneurship Competition ( <b>top 8%</b> )	<i>May. 2019</i>
<b>3<sup>rd</sup></b> Prize, Lan-Qiao Cup National Selection Competition	<i>May. 2017</i>

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