Xiulong Liu

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🌐 https://dragonliu1995.github.io

EDUCATION BACKGROUND

University of Washington   **Seattle, WA**
Ph.D. in Electrical & Computer Engineering, GPA: 3.82/4.0   *Sept. 2020 - Jun. 2024 (Expected)*

University of Washington   **Seattle, WA**
M.S. in Electrical & Computer Engineering, GPA: 3.91/4.0   *Sept. 2018 - Mar. 2020*

Shanghai Jiaotong University   **Shanghai, China**
B.S. in Electrical Engineering, GPA: 3.86/4.0, Outstanding Graduates(5%)   *Sept. 2014 - Jun. 2018*

RESEARCH INTERESTS & SKILLS

Research interests: Audio-Visual Learning, Video Understanding, Audio Processing, Representation Learning

Programming skills: Python, C++, Pytorch, Tensorflow(1.0), MXNet.

RESEARCH EXPERIENCE

University of Washington   **Seattle, WA**
Research Assistant   *Sept. 2020 - June. 2024*

- work in UW@NeuroAI Lab, focus on Audio-Visual Learning

PUBLICATIONS

- **X. Liu***, K. Su*, and E. Shlizerman, **"How Does it Sound? Generation of Rhythmic Soundtracks for Human Movement Videos"**, **accepted by** *Advances in Neural Information Processing Systems(NeurIPS 2021)*

- **X. Liu***, K. Su*, and E. Shlizerman, **"Multi-Instrumentalist Net: Unsupervised Generation of Music from Body Movements"**, *Under revision and re-submission*

- K. Su, **X. Liu**, and E. Shlizerman, **"Audeo: Audio Generation for a Silent Performance Video"**, **accepted by** *Advances in Neural Information Processing Systems(NeurIPS 2020)*

- K. Su, **X. Liu**, and E. Shlizerman, **"PREDICT CLUSTER: Unsupervised Skeleton Based Action Recognition"**, **accepted by** *Proceedings of the IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR), 2020*

TEACHING EXPERIENCE

- Teaching Assistant, EE440 and EE568, undergrad/grad level Digital Image Processing. Giving Hands-on experience to students on image processing techniques. TA same course for 3 quarters.

WORK EXPERIENCE

Onclick AI   **Bellevue, WA**
Data Scientist   *Jan. 2020 - Spet. 2020*

- Time-series Forecasting for E-commerce and Retails.
- AutoML pipeline development.
- Data Visualization and Backend Support.
- ML-based Mortgage application recommendation.

Shannon AI   **Beijing, China**
Machine Learning Engineer Intern   *June. 2019 - Spet. 2019*

- OCR detection & recognition supporting multi-lingual scenario.
- Document and Table extraction. Research on SOTA detection & recognition methods, and integrate them into production system.