

Kun Su

Research Assistant

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My research interests are at the intersection of computer vision and audio signals. I mainly focus on developing deep learning approaches to disentangle the latent representation of Spatio-temporal data and apply it to different applications.



Education

Apr 2019 - **Ph.D.: Electrical & Computer Engineering**

Current University Of Washington - Seattle, WA

Sep 2017 - **Master of Science: Electrical & Computer Engineering**

Mar 2019 University Of Washington - Seattle, WA

- Graduated with 3.92 GPA

Aug 2013 - **Bachelor of Science: Electrical Engineering**

May 2017 Rensselaer Polytechnic Institute - Troy, NY

- Graduated magna cum laude
- Graduated with 3.76 GPA



Publications

Preprints

- **Su, Kun**, Xiulong Liu, and Eli Shlizerman. "Multi-instrumentalist Net: Unsupervised Generation of Music from Body Movements." (2020)
- Zheng, Yang, Jinlin Xiang, **Kun Su**, and Eli Shlizerman. "BI-MAML: Balanced Incremental Approach for Meta Learning." *arXiv preprint arXiv:2006.07412* (2020).
- **Su, Kun**, and Eli Shlizerman. "Dimension reduction approach for interpretability of sequence to sequence recurrent neural networks." *arXiv preprint arXiv:1905.12176* (2019).

Conference Papers

- **Su, Kun**, Xiulong Liu, and Eli Shlizerman. "Audeo: Audio generation for a silent performance video." **Advances in Neural Information Processing Systems** 33 (2020).
- **Su, Kun**, Xiulong Liu, and Eli Shlizerman. "Predict & cluster: Unsupervised skeleton based action recognition." **Proceedings of the IEEE/CVF Conference on Computer Vision and Pattern Recognition**. 2020.
- You, Jie, Yufei Zhang, Mingchen Li, **Kun Su**, Fumin Zhang, and Wencen Wu. "Cooperative parameter identification of advection-diffusion processes using a mobile sensor network." In

2017 **American Control Conference (ACC)**, pp. 3230-3236. IEEE, 2017.

- Li, M., **Su, K.**, Zhang, Y., You, J. and Wu, W., 2016, November. Experimental validation of diffusion coefficient identification using a multi-robot system. In *2016 IEEE MIT Undergraduate Research Technology Conference (URTC)* (pp. 1-4). IEEE.

Journal Papers

- **Su, Kun**, and Eli Shlizerman. "Clustering and Recognition of Spatiotemporal Features through Interpretable Embedding of Sequence to Sequence Recurrent Neural Networks." **Frontiers in Artificial Intelligence** 3 (2020): 70.
- Wu, W., You, J., Zhang, Y., Li, M. and **Su, K.**, 2020. Parameter Identification of Spatial–Temporal Varying Processes by a Multi-Robot System in Realistic Diffusion Fields. *Robotica*, pp.1-20.



Teaching Experiences

Teaching Assistant

- Practical Introduction to Neural Networks, ECE 596, University of Washington, 2019
- Computer Components and Operations, ECSE 2610, Rensselaer Polytechnic Institute, 2016



Internship

Robotic Simulation Intern, SUNPRO Mechanical & Electrical Engineering Co., Ltd. June-August 2016

- Involve in the design of a visual system to identify whether the welded components match the requirement in the assembly line.
- Involve in the design an educational base for beginner to industrial robots.