

# Siteng HUANG

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Personal Page | Google Scholar | Github | Blog

## EDUCATION

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**ZHEJIANG UNIVERSITY & WESTLAKE UNIVERSITY**, Hangzhou, China Sep. 2019 – Jun. 2024 (Expected)

*Joint Ph.D. Student, Computer Science*

- Research direction: data-efficient learning, including few-shot learning, meta-learning, compositional zero-shot learning, etc
- Affiliated with Machine Intelligence Laboratory (MiLAB), Advisor: Dr. Donglin Wang
- National Scholarship for Ph.D. Students (2019~2020)

**WUHAN UNIVERSITY**, Wuhan, China Sep. 2015 – Jun. 2019

*Bachelor of Engineering, Software Engineering*

- GPA: 3.65/4.0 (Top 10%)
- Merit Scholarship (First Prize×1, Second Prize×2)

## PUBLICATIONS

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- **Siteng Huang**, Donglin Wang, Xuehan Wu, Ao Tang, “DSANet: Dual Self-Attention Network for Multivariate Time Series Forecasting”. In *Proceedings of the 28th ACM International Conference on Information and Knowledge Management (CIKM 2019)*. [PDF], cited by **52**.
- **Siteng Huang**, Min Zhang, Yachen Kang, Donglin Wang, “Attributes-Guided and Pure-Visual Attention Alignment for Few-Shot Recognition”. In *Proceedings of the 35th AAAI Conference on Artificial Intelligence (AAAI 2021)*. [PDF]
- Zhengyu Chen, Jixie Ge, Heshen Zhan, **Siteng Huang**, Donglin Wang, “Pareto Self-Supervised Training for Few-Shot Learning”. In *Proceedings of the 2021 IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR 2021)*. [PDF]
- Zifeng Zhuang, Xintao Xiang, **Siteng Huang**, Donglin Wang, “HINFShot: A Challenge Dataset for Few-Shot Node Classification in Heterogeneous Information Network”. In *Proceedings of the 2021 International Conference on Multimedia Retrieval (ICMR 2021)*. [PDF]

## RESEARCH EXPERIENCE

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***Auxiliary Semantic Guided Few-shot Recognition*** Jun. 2019 – Jul. 2020

- Proposed an attribute-guided attention module to compensate the lack of supervised information for few-shot recognition with auxiliary attribute annotations, improving the classical metric-based approaches by up to 22.86% to reach the state-of-the-art performance.
- Research results have been published at AAAI 2021 (CCF A Conference) as the first author.

***Multivariate Time-series Forecasting*** Oct. 2018 – May 2019

- Extracted and cleaned multivariate time-series datasets from real business data of the partner company according to project requirements.
- First tried classical statistical methods such as VAR. Later, considering the complex non-linear relationship between time steps and series, GRU, LSTNet, TPA and other neural network-based methods were reproduced. Finally, as these models fit not well for time series with dynamic-period patterns or nonperiodic patterns, the solution of using parallel global and local convolution to capture complex mixtures of global and local temporal patterns and using self-attention mechanism to model the dependencies between multiple series was proposed.
- Research results have been published at CIKM 2019 (CCF B Conference) as the first author.

## SKILLS AND OTHERS

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- Languages: Chinese (Native), English (Fluent)
- Software & Programming Languages: Python, PyTorch, L<sup>A</sup>T<sub>E</sub>X, Git, VSCode