

# Ziao Yang

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<b>EDUCATION</b>	<b>Brandeis University</b> Ph.D. Candidate in Computer Science <i>Advisor:</i> Professor Hongfu Liu	Waltham, MA, USA 09/2023 - now
	<b>Sun Yat-Sen University</b> B.Eng. in Computer Science and Technology	Guangzhou, China 09/2018 - 06/2022
<b>RESEARCH INTERESTS</b>	<ul style="list-style-type: none"><li>• <b>Data Centric Learning:</b> Detrimental Sample Identification, Sample Curation for Foundation Models, Data-Efficiency Training</li><li>• <b>Large Language Model:</b> Sample Curation for Pre-Training and Post-Training, Reinforcement Learning, LLM as Judge</li></ul>	
<b>INDUSTRY EXPERIENCE</b>	<ul style="list-style-type: none"><li>• <b>Adobe</b> Machine Learning Engineer Intern, <i>Mentor:</i> Dr. Lei Zhang Developed a multi-persona catchphrases generation system for brands (e.g., Coca-cola, Photoshop, Acrobat); designed structured prompts and a multi-pass pipeline that improved offline quality (LLM-as-judge + rule-based checks). Trained a reward model and applied PPO to optimize toward brand style.</li><li>• <b>Y Combinator China</b> Personal Assistant, <i>Mentor:</i> Dr. Qi Lu Crafted strategic presentations and financing materials for Dr. Qi Lu, e.g., “My Foundation Model Worldview.” Led industry research and liaised with leading scientists from Microsoft Research, Meta, Nvidia Research, IDEA Research, and Shanghai AI Lab.</li><li>• <b>International Digital Economy Academy (IDEA)</b> Research Intern, <i>Mentor:</i> Dr. Jiaxing Zhang Constructed Supervised pre-training datasets (27million) for multi-classification tasks using existing datasets and performed sub-task sampling. Performed supervised pre-training on BERT using Meta-Learning algorithms (e.g., MAML, Reptile) to enlighten it with prior classification knowledge.</li></ul>	San Jose, California 05/2025 - 08/2025 Beijing, China 03/2023 - 07/2023 Shenzhen, China 03/2022 - 07/2022
<b>PUBLICATIONS</b>	<ol style="list-style-type: none"><li>1. <b>Ziao Yang</b>, Longbo Huang, and Hongfu Liu. “Layer-Aware Influence for Online Data Valuation Estimation.” <i>arXiv preprint arXiv:2510.16007</i>, 2025.</li><li>2. <b>Ziao Yang</b>, Han Yue, Jian Chen, and Hongfu Liu. “Revisit, Extend, and Enhance Hessian-Free Influence Functions.” <i>arXiv preprint arXiv:2405.17490</i>, 2024.</li><li>3. <b>Ziao Yang</b>, Han Yue, Jian Chen, and Hongfu Liu. “On the Inflation of KNN-Shapley Value.” <i>arXiv preprint arXiv:2405.17489</i>, 2024.</li><li>4. <b>Ziao Yang</b>, Xiangrui Yang, and Qifeng Lin. “TCTN: A 3D-Temporal Convolutional Transformer Network for Spatiotemporal Predictive Learning.” <i>arXiv preprint arXiv:2112.01085</i>, 2021.</li><li>5. <b>Ziao Yang</b>, Xiangrui Yang, and Qifeng Lin. “PTCT: Patches with 3D-Temporal Convolutional Transformer Network for Precipitation Nowcasting.” <i>arXiv preprint arXiv:2112.01085</i>, 2021.</li></ol>	
<b>HONORS &amp; AWARDS</b>	<ul style="list-style-type: none"><li>• Tianchi Big Data Competition - AI Helps Weather Forecast (Top 1%) <i>Alibaba Group</i></li><li>• National Level of College Student Innovation Competition (Top 1) <i>Sun Yat-Sen University</i></li><li>• TCTN Official Implementation with 100+ stars on GitHub</li></ul>	2022 2022 2022 - now
<b>PROFESSIONAL ACTIVITIES</b>	<ul style="list-style-type: none"><li>• <b>Reviewer</b> ◊ Neural Information Processing Systems (<b>NeurIPS</b>) ◊ International Conference on Learning Representations (<b>ICLR</b>)</li></ul>	2023 - now 2024 - now