

Benlin Liu

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EDUCATION

University of Washington <i>PhD in Computer Science & Engineering</i> <i>Affiliation: UW Graphics and Imaging Laboratory (GRAIL)</i>	Seattle, USA <i>Start from Sep 2021</i>
University of California, Los Angeles <i>M.S. in Computer Science</i>	Los Angeles, USA Sep 2019 – Jun 2021
Tsinghua University <i>B. Eng. in Electronic Engineering</i>	Beijing, China Aug 2014 – Jun 2018

PUBLICATIONS

* indicates equal contribution

1. Zuyan Liu*, **Benlin Liu***, Jiahui Wang, Guangyi Chen, Ranjay Krishna, Yongming Rao. Efficient Inference of Vision and Language Instruction-Following Models with Elastic Cache. In submission
2. Jiayi Yang, Wenlong Deng, Benlin Liu, Yangsibo Huang, James Zou, Xiaoxiao Li. GMValuator: Similarity-based Data Valuation for Generative Models. In submission
3. Yushi Hu, **Benlin Liu**, Jungo Kasai, Yizhong Wang, Mari Ostendorf, Ranjay Krishna, Noah A Smith. TIFA: Accurate and Interpretable Text-to-Image Faithfulness Evaluation with Question Answering. ICCV'23
4. Wenliang Zhao, Yongming Rao, Zuyan Liu, **Benlin Liu**, Jie Zhou, Jiwen Lu. Unleashing Text-to-Image Diffusion Models for Visual Perception. ICCV'23
5. Yongming Rao, Wenliang Zhao, **Benlin Liu**, Jiwen Lu, Jie Zhou, Cho-Jui Hsieh. DynamicViT: Efficient Vision Transformers with Dynamic Token Sparsification, NeurIPS'21
6. **Benlin Liu***, Yongming Rao*, Yi Wei, Jiwen Lu, Jie Zhou, Cho-jui Hsieh. RandomRooms: Learning 3D Scene Representation from Synthetic Shapes and Randomized Layouts, ICCV'21
7. Xin Wang, **Benlin Liu***, Thomas Huang*, Fisher Yu, Xiaolong Wang, Trevor Darrell, Joseph Gonzalez. Frustratingly Simple Domain Adaptive Object Detection, ICCV'21
8. **Benlin Liu**, Yongming Rao, Jiwen Lu, Jie Zhou, Cho-jui Hsieh. Multi-Proxy Wasserstein Classifier for Image Classification, AAAI'21
9. **Benlin Liu**, Yongming Rao, Jiwen Lu, Jie Zhou, Cho-jui Hsieh. MetaDistiller: Network Self-Boosting via Meta-Learned Top-Down Distillation, ECCV'20

10. Xu Zhao, Zhenming Yu, **Benlin Liu**, Yu Li, Hongwei Chen, Minghua Chen. A integrated optical neural network chip based on Mach-Zehnder interferometers. Asian Communication and Photonics 2018 (ACP2018)

Research Experience

University of Washington (Paul G. Allen School of Computer Science and Engineering) **Seattle, USA**

Research Assistant to Prof. Ranjay Krishna

Sep 2021 – Present

Research Interest: Vision-Language Pretraining, Knowledge Transfer, Text-to-Image generation, Diffusion Model, Self-Supervised Learning, Large Language Model

UCLA (Department of Computer Science)

Los Angeles, USA

Research Assistant to Prof. Cho-Jui Hsieh

Oct 2019 – Jun 2021

Research Interest: Visual Representation Learning, Learning with Less Supervision

Working Experience

Intern at Momenta.ai

May 2018 – Jul 2018

Student Researcher at Google Deepmind

Jun 2023 – Oct 2023

Academic Service

Reviewer of NeurIPS 2021-2023, CVPR 2021-2023, ICLR 2022-2023, ICCV 2021,2023, ECCV 2022, WACV 2021 - 2023, AAAI 2021-2022

Honors and Awards

UW-Reality Lab Meta Fellowship

1st place in Momenta Lane Detection Challenge

Tsinghua Academic Excellence Award

1st place in 17th Electronic Design Contest of Tsinghua University

2nd Prize for the 32rd National Undergraduate Physics Olympic (Top 5%)

ADDITIONAL INFORMATION

Computer Skills: C/C++, Python, JAVA, Matlab, SQL, Bash, Latex, PyTorch, Tensorflow, Keras, Caffe, JAX

Languages: Mandarin Chinese (Native), English (Proficient, TOEFL: 109)