Benlin Liu

liubl@cs.washington.edu | (+1) 3109487242 | liubl1217.github.io

EDUCATION

University of Washington   Seattle, USA
PhD in Computer Science & Engineering   *Start from* Sep 2021
Affiliation: UW Graphics and Imaging Laboratory (GRAIL)

University of California, Los Angeles   Los Angeles, USA
M.S. in Computer Science   Sep 2019 – Jun 2021

Tsinghua University   Beijing, China
B. Eng. in Electronic Engineering   Aug 2014 – Jun 2018

PUBLICATIONS

* indicates equal contribution

1. **Benlin Liu**, Yongming Rao, Jiwen Lu, Jie Zhou, Cho-jui Hsieh. MetaDistiller: Network Self-Boosting via Meta-Learned Top-Down Distillation, ECCV'20

2. **Benlin Liu,** Yongming Rao, Jiwen Lu, Jie Zhou, Cho-jui Hsieh. Multi-Proxy Wasserstein Classifier for Image Classification, AAAI'21

3. **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

4. Xin Wang, **Benlin Liu***, Thomas Huang*, Fisher Yu, Xiaolong Wang, Trevor Darrell, Joseph Gonzalez. Frustratingly Simple Domain Adaptive Object Detection, ICCV'21

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. 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)

7. 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. In submission to ICCV'23

8. Wenliang Zhao, Yongming Rao, Zuyan Liu **, Benlin Liu**, Jie Zhou, Jiwen Lu. Unleashing Text-to-Image Diffusion Models for Visual Perception. In submission to ICCV'23

Research Experience

University of Washington (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, Neural Rendering, Self-Supervised Learning

UCLA (Department of Computer Science) **Los Angeles, USA**
Research Assistant to Prof. Cho-Jui Hsieh Oct 2019 – Jun 2021
Research Interest: Visual Recognition, Learning with Less Supervision

UCSD (Department of Computer Science) **San Diego, USA (Remote)**
Research Assistant to Prof. Xiaolong Wang July 2020 – Mar 2020
Research Interest: Domain Adaptation, Object Detection

Tsinghua University (Department of Automation) **Beijing, China**
Research Assistant to Prof. Jiwen Lu Dec 2018 – July 2019
Research Interest: Transfer Learning, Metric Learning

University of Pennsylvania (Department of Computer and Information Science) **Philadelphia, USA**
Research Assistant to Prof. Jianbo Shi July 2018 – Nov 2018
Research Interest: Hand Pose, Image Synthesis

Tsinghua University (Department of Electronic Engineering) **Beijing, China**
Research Assistant to Prof. Minghua Chen Nov 2017 – Apr 2018
Research Interest: Optical Communication, Binary Neural Network

Working Experience

Intern at Momenta.ai May 2018 – Jul 2018

Academic Service

Reviewer of NeurIPS 2021, WACV 2021, 2022, AAAI 2021, 2022, CVPR 2021, 2022, ICLR 2022

Honors and Awards

UW-Reality Lab Meta Fellowship	2022
1st place in Momenta Lane Detection Challenge	2018
Tsinghua Academic Excellence Award	2017
1st place in 17th Electronic Design Contest of Tsinghua University	2016
2nd Prize for the 32rd National Undergraduate Physics Olympic (Top 5%)	2015

ADDITIONAL INFORMATION

Computer Skills: C/C++, Python, JAVA, Matlab, SQL, Bash, Latex, PyTorch, Tensorflow, Keras, Caffe
Languages: Mandarin Chinese (Native), English (Proficient, TOEFL: 109)