Qizhe Zhang

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Turing Class (Honor Class), School of Electronics Engineering and
Computer Science, Peking University

GPA: 3.725, 10/81

RESEARCH EXPERIENCE

- **Research Lab**
  BLV Lab - Shanghang Zhang, National Engineering Research Center of Visual Technology, Peking University
  Autonomous Driving, Computational Neuroscience
  March 2022 onwards

- **Research Practiceb**
  GCV Lab, BIGAI - Baoxiong Jia, Frontier Research Center, Beijing Institute for General Artificial Intelligence
  Embodied Cognition, Multi-modal Learning
  October 2021 to February 2022
  EPIC Lab - He Wang, Center on Frontiers of Computing Studies, Peking University
  Semi-supervised/Self-supervised Learning
  February 2021 to September 2021

- **Research Rotation**
  daGAME - Xiaotie Deng, Center on Frontiers of Computing Studies, Peking University
  Algorithmic Game Theory
  VCL - Baoquan Chen, Center on Frontiers of Computing Studies, Peking University
  Computer Vision
  March 2021 to June 2021

EDUCATION

- **University, Artificial Intelligence**
  Turing Class (AI) (Honor Class), EECS, PKU
  2019 onwards

- **Middle School**
  Middle School affiliated to NPU
  2013 to 2019

AWARDS

- **The Third Prize of PKU-CPC**
  2021

- **The Second Prize of China Southeast Mathematical Olympiad**
  2018

- **The First Prize of China North Star of Hope Mathematical Invitational Tournament**
  2017

SKILLS

- **Programming Language & Library**
  C/C++, Python, Java, JavaScript, MATLAB, PyTorch, Tensorflow, OpenCV, Detectron2

- **Research Fields**
  Image Classification, Object Detection, Semantic Segmentation, Semi-supervised/Self-supervised Learning, Contrastive Learning, Multi-modal Learning

- **Project Management**
  GitHub, Slurm, Google Cloud Platform, HUAWEI Cloud Platform, Overleaf

PUBLICATIONS

- **Unsupervised Spike Depth Estimation via Cross-modality Cross-domain Knowledge Transfer**
  [github.com/Theia-4869/BiCross](private)
  AAAI 2023 (in submission)

PROJECTS

- **2DIoUMatch**
  [github.com/Theia-4869/2DIoUMatch](private)
  A new method of 2D semi-supervised object detection with IoU estimation (to be submitted to TPAMI)
  Python, PyTorch, Detection2

- **MCL**
  [github.com/Theia-4869/MCL](private)
  A new pretrain method of contrastive learning by multi-cluster task
  Python, PyTorch

- **EMA-and-Ensemble-Lip-Networks**
  [github.com/Theia-4869/EMA-and-Ensemble-Lip-Networks]
  A new method of boosting certified l_∞-dist robustness with EMA and model ensemble
  C++, Python, PyTorch

INTERESTS

Computer Vision	Deep Learning	Autonomous Driving