

Chuang Lin

Curriculum Vitae

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🌐 <https://clin1223.github.io/>

Biography

I'm currently a third-year Ph.D. student at Monash University, Australia, supervised by Prof. Jianfei Cai. Previously, I received my M.Eng. degree (2019) from Harbin Institute of Technology and B.Eng. degree (2017) from Jilin University.

I'm broadly interested in computer vision and deep learning. My current research focuses on **vision-and-language, domain adaptation**.

Publications

- 2023 **Learning Object-Language Alignments for Open-Vocabulary Object Detection**
 - **Chuang Lin**, Peize Sun, Yi Jiang, Ping Luo, Lizhen Qu, Gholamreza Haffari, Zehuan Yuan, Jianfei Cai.
 - *International Conference on Learning Representations (ICLR)*, 2023.
- 2022 **Multimodal Transformer with Variable-length Memory for Vision-and-Language Navigation**
 - **Chuang Lin**, Yi Jiang, Jianfei Cai, Lizhen Qu, Gholamreza Haffari, Zehuan Yuan.
 - *European Conference on Computer Vision (ECCV)*, 2022.
- 2021 **Domain-Invariant Disentangled Network for Generalizable Object Detection**
 - **Chuang Lin**, Zehuan Yuan, Sicheng Zhao, Peze Sun, Changhu Wang, Jianfei Cai.
 - *IEEE International Conference on Computer Vision (ICCV)*, 2021.
- 2020 **Multi-source Domain Adaptation for Visual Sentiment Classification**
 - **Chuang Lin**, Sicheng Zhao, Lei Meng, CHUA Tat Seng.
 - *AAAI Conference on Artificial Intelligence (AAAI)*, 2020.
- 2019 **CycleEmotionGAN: Emotional Semantic Consistency Preserved CycleGAN for Adapting Image Emotions, (Oral)**
 - Sicheng Zhao, **Chuang Lin**, Pengfei Xu, Sendong Zhao, Ravi Krishna, Guiguang Ding, Kurt Keutzer.
 - *AAAI Conference on Artificial Intelligence (AAAI)*, 2019.
- 2018 **Cycle-consistency Based Hierarchical Dense Semantic Correspondence, (Oral)**
 - **Chuang Lin**, Hongxun Yao, Wei Yu, Xiaoshuai Sun.
 - *IEEE International Conference on Image Processing (ICIP)*, 2018.
- 2017 **Multi-level Semantic Representation for Flower Classification, (Oral)**
 - **Chuang Lin**, Hongxun Yao, Wei Yu, Wenbo Tang.
 - *Pacific-Rim Conference on Multimedia (PCM)*, 2017.
 - Note that this work was done when I was an undergraduate

Projects

- 2023.03–11 **ByteDance, Beijing, Research Intern**, Mentor: Yi Jiang
 - A Large MultiModal Model for Unifying Understanding of Regions and Images**
 - Generative region-language pretraining for unifying image captioning and open-ended object detection.
 - Technical report will be released soon.
- 2018.05–09 **DiDi, Beijing, Research Intern**, Mentor: Dr. Pengfei Xu
 - Data Augmentation for Traffic Sign Detection**
 - Utilized GANs to generate images for traffic sign categories, overcoming data imbalance and boosting rare class detection accuracy by 25% to 40%.
 - The project is applied to the DiDi Map Update Service.

Research Experience

- 03/2020- **Research Intern**, *ByteDance, Beijing, China*
Now Mentor: Yi Jiang and Dr. Zehuan Yuan
○ Region-level Multimodal Model
- 07/2019- **Research Intern**, *National University of Singapore(NUS), School of Computing*
02/2020 NUS-Tsinghua Extreme Search Center (NExT)
Advisor: Prof. Chua Tat Seng and Dr. Meng Lei
○ Domain Adaptation for Visual Sentiment
- 05/2018- **Research Intern**, *DiDi, Beijing, China*
09/2018 Mentor: Dr. Pengfei Xu
○ Generative Adversarial Networks for Data Imbalance

Education Background

- 12/2020- **Ph.D.**, Faculty of Information Technology
Now **Monash University**, Australia
Advisor: Prof. Jianfei Cai and Prof. Gholamreza Haffari
- 09/2017- **M.Eng.**, *School of Computer Science and Technology*
07/2019 **Harbin Institute of Technology**, China
Advisor: Prof. Hongxun Yao
- 09/2013- **B.Eng.**, *School of Computer Science and Technology*
07/2017 **Jilin University**, China

Awards

- 2020 International Postgraduate Research Scholarship
- 2019 Excellent Master Thesis Award
- 2018 National Scholarship
- 2018 First-class Academic Performance Scholarship
- 2017 Outstanding Graduate
- 2014-2016 First-class Scholarship for Undergraduate Students