劉子铭 (Ziming LIU), Master of Computer Science

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Employment History

July, 2020 – Oct, 2020 🔖 **Research Intern.** Short-video understanding group, Visual Intelligence Center, AI platform, **Meituan Inc.(**美团**)** (Beijing, CHINA)

July, 2016 – August, 2016 🔖 **NGO Intern.** Water Protection Group, **Green Hunan** 绿色潇湘 **(Non-Government Organization)** (Changsha & Yueyang, CHINA)

Education

Nov 2020 – Nov 2023 🔖 **Ph.D. student, INRIA** in Computer Science.

Funded by $3IA\ Cote\ d'Azur$ (one of France's four AI research centers)

Sep 2018 – Jul 2020 🔖 **M.S.E., Beijing Institute of Technology (**北京理工大学**)**

GPA: 3.44/4, average score: 85.35

Tongyou Scholarship

Graduate with "Outstanding Graduates" 7%,

Admission ranking: 11/161.

Thesis (Score: 89.2): *Action Recognition with comprehensive context information.*

Sep 2014 – Jul 2018 🔖 **B.E., Changsha University of Sci & Tech(**长沙理工大学**)**

GPA: 3.22/4, average score: 82

First Prize scholarship 2%

Graduate with "Outstanding Thesis Award" (1%)

Thesis (Score: 93.0): *Multi-PCA fault detection system with prior knowledge of HVAC.*

Research Publications

Journal Articles

1. Liu, Z., Gao, G., Qin, A. K., & Li, J. (2020). Dtg-net: Differentiated teachers guided self-supervised video action recognition. *ArXiv, abs/2006.07609.*

Conference Proceedings

1. Liu, Z., Gao, G., Sun, L., & Fang, Z. (2021). Hrdnet: High-resolution detection network for small objects, In *Icme.*

Liu, Z., Gao, G., Sun, L., & Fang, L. (2020). Ipg-net: Image pyramid guidance network for small object detection, In *Cvpr workshops*.

Du, D., Zhu, P., Wen, L., Bian, X., Lin, H., Hu, Q., Peng, & Ziming, L. (2019). Visdrone-det2019: The vision meets drone object detection in image challenge results, In *Iccv workshops*.

Zhu, P., Du, D., Wen, L., Bian, X., Ling, H., Hu, Q., Peng, T., Zheng, J., Wang, X., Zhang, Y., Bo, L., Shi, H., Zhu, R., Dong, B., Reddy Pailla, D., Ni, F., Gao, G., Liu, G., Xiong, H., … Liu, Z. (2019). Visdrone-vid2019: The vision meets drone object detection in video challenge results, In *Iccv workshops*.

Liu, Z., Gao, G., Qin, A. K., Wu, T., & Liu, C. H. (2019). Action recognition with bootstrapping based long-range temporal context attention, In *Acm mm*.

Miscellaneous Experience

Project List

2020	**Image to video knowledge transfer**.
	video self-sup learning with contrastive method
2019	**Small object detection with High-resolution and Multi-scale**.
	Small object detection with image pyramid.
	Object detection for drone (UAV) data.
	Action recognition with long-range attention and bootstrapping sampling.
2018	**Remove the snow noise in images of railway scene**.
	Multi-PCA based fault detection system for time-related industry data.

Talks and Posters

Oct, 2019	**Academic Sharing**, UPM&BIT Academic Exchange Meeting.
	Short Presentation & Poster, Session 2A: Knowledge Processing & Action Analysis, ACM MM2019 Conference.

Awards and Achievements

July, 2020	**Tongyou Scholarship**, Awarded by Tongyou Tech. and BIT.
June, 2020	**the Title of Outstanding Graduates**, Awarded by BIT.
Oct, 2019	**Ranking in the list of First Prize Scholarship**. BIT
Aug, 2019	**Winner team of the project**, Delivered by BIT and UPM(spain) international summer school.
Oct, 2019	**2nd place & Honorable mention award**, Video Detection task, ICCV2019 VisDrone workshop challenge.
June, 2018	**Outstanding thesis award (2/98)%**, Awarded by CSUST.

Miscellaneous Experience (continued)

Mar, 2018	**Honorable mention award**, in American Mathematical Contest In Modeling MCM/ICM.
Oct, 2017	**3rd Prize** in China National mathematics contest in modeling.
Oct, 2016	**First Prize scholarship** , awarded by CSUST.

Certification

2019	**Certified** 6.5 **in IELTS test**. Delivered by IELTS council.
	Certified the completion($1st$) of international summer school on innovation. Delivered by universities, BIT and UPM.

Teaching

summer 2015	**Teaching Assistant of the course over 90 students**

Courses

Mathematics basic courses 90+, matrix analysis 94, Statistics Pattern Recognition 90, mathematics $A1$ 91, linear algebra 85

Skills

Languages	Native Mandarin Chinese, Fluent English **(IELTS** 6.5 **with writing** 6.5**, speaking** 6.0**)**.
Coding	Python, C++, C, Java, Matlab
Framework	Pytorch, OpenCV...

References

Available on Request