Qimai Li 中文版

Personal Info

Position:	Ph.D. Student	Organization:	The Hong Kong Polytechnic University
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Education

2019/09 - Present — **The Hong Kong Polytechnic University**
Ph.D. in Computing Science

2013/09 - 2017/06 — **Zhejiang University**
B.E. in Computer Science   GPA 3.87/4.0

Publications (763 citations in total)

[1] **Qimai Li**, Xiaotong Zhang, Han Liu, Quanyu Dai, and Xiao-Ming Wu. "Dimensionwise Separable 2-D Graph Convolution for Unsupervised and Semi-Supervised Learning on Graphs." In *Proceedings of the 27th ACM SIGKDD Conference on Knowledge Discovery and Data Mining* **(KDD 21)**, 2021.

[2] Han Liu, Xiaotong Zhang, Xianchao Zhang, **Qimai Li**, and Xiao-Ming Wu. "RPC: Representative possible world based consistent clustering algorithm for uncertain dat." Computer Communications, Volume 176, 2021, Pages 128-137, ISSN 0140-3664. 2021.

[3] Jiaxin Chen, Xiao-Ming Wu, Yanke Li, **Qimai Li**, Li-Ming Zhan, Fu-lai Chung. "A Closer Look at the Training Strategy for Modern Meta-Learning." In *Proceedings of the Thirty-fourth Conference on Neural Information Processing Systems* **(NeurIPS 20)**, 2020.

[4] Guangfeng Yan, Lu Fan, **Qimai Li (co-first author)**, Han Liu, Xiaotong Zhang, Xiao-Ming Wu, and Albert Y.S. Lam. "Unknown Intent Detection Using Gaussian Mixture Model with an Application to Zero-shot Intent Classification." In *Proceedings of the 58th Annual Meeting of the Association for Computational Linguistics (Long Paper)* **(ACL 20)**, 2020.

[5] Han Liu, Xiaotong Zhang, Lu Fan, Xuandi Fu, **Qimai Li (co-first author)**, Xiao-Ming Wu, and Albert Y.S. Lam. "Reconstructing Capsule Networks for Zero-shot Intent Classification." In *Proceedings of 2019 Conference on Empirical Methods in Natural Language Processing (Long Paper)* **(EMNLP-19)**, 2019.

[6] **Qimai Li**, Xiao-Ming Wu, Han Liu, Xiaotong Zhang, and Zhichao Guan. "Label efficient semi-supervised learning via graph filtering." In *Proceedings of the IEEE Conference on Computer Vision and Pattern Recognition* **(CVPR)**, pp. 9582-9591, 2019.

[7] Xiaotong Zhang, Han Liu, **Qimai Li (co-first author)** and Xiao-Ming Wu. "Attributed Graph Clustering via Adaptive Graph Convolution." In *Proceedings of the 28th International Joint Conference on Artificial Intelligence* **(IJCAI)**, 2019.

[8] **Qimai Li**, Zhichao Han, and Xiao-Ming Wu. "Deeper insights into graph convolutional networks for semi-supervised learning." In *Thirty-Second AAAI Conference on Artificial Intelligence* **(AAAI)**, 2018. Selected as **Oral Presentation**.

[9]   Yong Wang, Xiao-Ming Wu, **Qimai Li**, Jiatao Gu, Wangmeng Xiang, Lei Zhang, and Victor OK Li. "Large Margin Meta-Learning for Few-Shot Classification." In *Workshop on Meta-Learning at Thirty-second Annual Conference on Neural Information Processing System* (**MetaLearn @NuerlPS**), 2018.

Awards

2019	Hong Kong Ph.D. Fellowship (250 out of 14,000+, 1.7% acceptance rate).
2017-2019	Postgraduate Scholarship in the Hong Kong Polytechnic University.
2016	Second-Class Prize in HUAWEI Code Craft, 256 out of 11409, Top 2.3%.
2016	Honorable Mention in the Mathematical Contest in Modeling, USA.
2016	Excellent Group in Student Research Training Program, Zhejiang University.
2015 & 2016	Third-Class Scholarship for Outstanding Merits, Zhejiang University.
2015 & 2016	Third-Class Scholarship for Outstanding Students, Zhejiang University.

Internship

Summer 2016 | Huawei Technologies Co., Ltd.
Algorithm Engineer
Worked on smart transportation system. Implemented, tested and compared different algorithms for car detection and recognition.

Projects

2016/04 - 2016/06 | GrabCut Interactive Image Segmentation System
An implementation of GrabCut algorithm, which is used to segment foreground and background. Users indicate foreground and background by several clicks and then the program finish the whole segmentation automatically.

2015/09- 2016/01 | Serenity (Computer System)
Serenity is a tiny but complete computer system. All software and most hardware were designed by our own team. It consists of 5 parts – a single-core, 5-stage-pipelined CPU with MIPS ISA, 64KB memory, I/O system, a single-job operating system, several user applications. We also developed a virtual machine of our computer system running on Windows.

2015/06 - 2015/07 | Whatever (Search Engine)
Whatever is a general web search engine, which supports wildcards, spell check, synonym search and phrase search. It implements various information retrieval algorithms, including bool model, vector space model, tf-idf features, PageRank.

2015/04 - 2016/04 | Heart (Heart Rate Monitor)
Heart is an android application for heart-rate measurement. With our application, you can measure heart rate anywhere and anytime without extra devices other than your smart phone. This project was entitled as excellent SRTP project by College of Biomedical Engineering & Instrument Science, Zhejiang University.

李其迈

联系方式

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教育经历

2019 - 至今　**香港理工大学**
计算科学 Ph.D.　导师 Prof. Xiao-Ming WU

2013 - 2017　**浙江大学**
计算机科学与技术　工学学士　GPA 3.87/4.0

论文发表

[1] **Qimai Li**, Xiaotong Zhang, Han Liu, Quanyu Dai, and Xiao-Ming Wu. "Dimensionwise Separable 2-D Graph Convolution for Unsupervised and Semi-Supervised Learning on Graphs." In *Proceedings of the 27th ACM SIGKDD Conference on Knowledge Discovery and Data Mining* **(KDD 21)**, 2021.

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[3] Jiaxin Chen, Xiao-Ming Wu, Yanke Li, **Qimai Li**, Li-Ming Zhan, Fu-lai Chung. "A Closer Look at the Training Strategy for Modern Meta-Learning." In *Proceedings of the Thirty-fourth Conference on Neural Information Processing Systems* **(NeurIPS 20)**, 2020.

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[5] Han Liu, Xiaotong Zhang, Lu Fan, Xuandi Fu, **Qimai Li (co-first author)**, Xiao-Ming Wu, and Albert Y.S. Lam. "Reconstructing Capsule Networks for Zero-shot Intent Classification." In *Proceedings of 2019 Conference on Empirical Methods in Natural Language Processing (Long Paper)* **(EMNLP-19)**, 2019.

[6] **Qimai Li**, Xiao-Ming Wu, Han Liu, Xiaotong Zhang, and Zhichao Guan. "Label efficient semi-supervised learning via graph filtering." In *Proceedings of the IEEE Conference on Computer Vision and Pattern Recognition* **(CVPR)**, pp. 9582-9591, 2019.

[7] Xiaotong Zhang, Han Liu, **Qimai Li (co-first author)** and Xiao-Ming Wu. "Attributed Graph Clustering via Adaptive Graph Convolution." In *Proceedings of the 28th International Joint Conference on Artificial Intelligence* **(IJCAI)**, 2019.

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[9] Yong Wang, Xiao-Ming Wu, **Qimai Li**, Jiatao Gu, Wangmeng Xiang, Lei Zhang, and Victor OK Li. "Large Margin Meta-Learning for Few-Shot Classification." In *Workshop on Meta-Learning at Thirty-second Annual Conference on Neural Information Processing System* **(MetaLearn @NuerlPS)**, 2018.

奖项

2019	香港博士研究生奖学金计划 (14,000+ 录取 250 人, 1.7% 录取率).
2017-2019	香港理工大学研究生津贴.
2016	华为软件精英挑战赛杭夏赛区二等奖
2016	国际数学建模大赛提名奖
2016	浙江大学大学生科研训练计划优秀小组
2015 及 2016	浙江大学三等学业奖学金
2015 及 2016	浙江大学三等优秀学生奖学金

技能

精通: Python, C/C++, Tensorflow, PyTorch, LaTeX, Git.
掌握: Matlab, Java, HTML5, OpenCV, CUDA programming, JavaScript, Verilog.
熟悉: CSS, Golang, SQL, MongoDB, MySQL.

实习

2016 夏季 | 华为杭州研究所
算法工程师
实现、测试、比较多种车辆检测和车牌识别算法。提高了在特定场景下识别和检测的准确率、召回率。

Project

2016/04 - 2016/06 | **GrabCut 交互式图像分割系统**
对于图像前背景分割算法 GrabCut 的实现。用户通过少量几次点击示意前景区域和背景区域，之后由程序自动完成整个分割，分割完成后用户可以继续增加点击，获得更好的分割效果。

2015/09- 2016/01 | **Serenity 简易计算机系统**
Serenity 是一个小型但是完整的计算机系统, 所有软硬件均由我们小组 3 人自主设计。它由 CPU, I/O 系统, 操作系统, 用户程序四部分组成。CPU 是单核、5 级流水线，使用 MIPS 指令集；I/O 系统包含三部分——显示输出、硬盘读写和键盘输入；操作系统是一个单任务批处理系统；用户程序包含一些实用的命令行工具。我在其中负责设计所有的硬件，并开发了一个运行在 windows 上的模型该系统的虚拟机。

2015/06 - 2015/07 | **Whatever 搜索引擎**
Whatever 是一个通用网页搜索引擎。它支持通配符查询、拼写纠正、同义词查询、短语查询。它实现了多种信息检索算法，包括布尔模型、向量空间模型、tf-idf 特征、PageRank。

2015/04 - 2016/04 | **Heart 智能手机心率监测软件**
Heart 是一个 Android 平台的心率检测软件。我们通过摄像头拍摄视频获取心跳信号，之后通过降噪和谐分析从视频中提取出心率数据，其准确率与医用专业设备相当。通过我们的软件，用户仅需一台智能手机就可以方便检测自己的心率数据，无需购买额外的设备。在大学生科研训练计划中，我们被浙江大学生物医学工程与仪器科学学院评选为优秀小组。