胡金辉（Kurtis）

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香港特别行政区

教育经历

香港大学（University of Hong Kong, HKU） 2019年9月 - 2021年3月
Master of Data Science(MDASC) 硕士 香港,中国

- 相关课程：Financial data analysis, Cluster and Cloud Computing, Computational Intelligence and Machine Learning, Statistical Inference for Data Science, Advanced Database Systems, Advanced Statistical Modelling, Programming for Data Science, etc.

西安交通大学（Xi'an Jiaotong University, XJTU） 2015年9月 - 2019年6月
物理试验班 本科 西安,中国

- GPA：3.38
- 学位：理学学士学位、钱学森学院荣誉学位
- 相关课程：计算物理、量子力学基础、电磁学、光学、理论力学、C++、Python、数据库基础及应用、微机原理与接口技术等

阿尔伯塔大学（University of Alberta, UA） 2018年7月 - 2018年8月
International Undergraduate Summer Enrichment Program in Mathematics 埃德蒙顿,加拿大

- Grades: Excellence
- Project: Wavelets and Their Applications in Image Inpainting
- Lectures: An Introduction to Wavelets and its Applications, Statistical Machine Learn, Conformal Field Theory, etc.

研究经历

推荐算法和SVD算法的比较及在机器学习中的应用研究 2018年12月 - 2019年6月
研究员 西安交通大学理学院 西安

- 研究了如何通过应用受快速降秩蒙特卡罗方法启发生成的ModFKV算法进行原数据的采样并实现SVD分解，并采用拒绝采样技术得到所需数据；用l2-norm sampling对量子算法中量子态的制备进行经典化假设。
- 实现了传统推荐算法和线性系统在低秩条件下的指数加速。并研究了如何将低秩指数加速推荐算法应用到两种协同推荐系统（KNN和K-means）中。分析了如何将低秩线性系统指数加速求解算法运用到支持向量机中。
- 项目最终综合评定得分：A+

对Quantum Kitchen Sink在量子神经网络中可能应用的研究 2018年8月 - 2018年8月
研究员 北京计算科学研究中心（CSRC） 北京

- 学习最新发表的量子算法论文Quantum Kitchen Sink(QKS)，与传统的Random Kitchen Sink(RKS)进行比较，进行代码实现
- 试着在噪声环境下理解QKS，探究其实现效果
- 通过比较QKS与RKS的基本原理及应用，试着找寻QKS的可能应用

小波分析及在图像恢复方面的应用 2018年7月 - 2018年8月
研究员 阿尔伯塔大学 埃德蒙顿

- 分析小波分析的原理部分，构造特殊的小波基来对损失图像进行二维修补，并构造其他小波基对受干扰的视频进行三维的修补，参与了代码搭建过程

基于机器学习的卫星宽窄频数据分析 2017年3月 - 2017年9月
研究员 西安交通大学人机所 西安

- 学习斯坦福大学CS229课程，掌握基础机器学习及人工智能知识，学习生成对抗网络
- 使用人工智能手段进行卫星宽窄频信号的处理与分析科研任务，主要通过SMO算法进行数据分析，得到了良好分析结果

荣誉奖项

- 西安交通大学-数学建模比赛二等奖 06/2018
- 中国大学生物理学术竞赛(CUPT)-省级特等奖 07/2016
- 西安交通大学-思源奖学金 12/2016

- 西安交通大学-珠峰奖学金 06/2018
- 西安交通大学-思源奖学金 12/2017
- 西安交通大学-珠峰奖学金 06/2019
- 2018高校微信小程序应用开发赛-西北赛区三等奖 07/2018

实习经历

AIA友邦保险 2019年9月 - 至今

助理实习生 香港特别行政区

- 帮助组织宣传活动，搜集招聘相关数据及信息并加以处理，运营公众平台账号等

社团和组织经历

西安交通大学学生沈杨书社 2015年9月 - 2018年6月

CTO 西安

- 领导组织了读书节、读书沙龙、阅读周等近二十个大型校内活动，并积极负责了活动的宣传物料的制作。其中最大型的校内活动——读书节每日平均参与人数超过1500人，总参与人数超10000人（三年累计）
- 通过微信小程序搭建书社图书管理系统，管理超过1000个会员及2000册图书，会员也可通过此程序在线预约图书，预约活动等

技能/证书及其他

- **技能：** C/C++, Python, HTML/CSS/JavaScript, Matlab, SQL, Office, R, Tableau
- **证书/执照：** Advanced Google Analytics证书
- **语言：** 英语（流利），普通话（母语）
- **兴趣爱好：** 健身，写作

Jinhui Hu (Kurtis)

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Hong Kong SAR, China

EDUCATION

The University of Hong Kong *Sep 2019 - Mar 2021*

MDASC | Master of Data Science *Hong Kong SAR, China*

Related Courses: Cluster and Cloud Computing, Computational Intelligence and Machine Learning, Statistical Inference for Data Science, Advanced Database Systems, Advanced Statistical Modelling, Programming for Data Science, etc.

Xi'an Jiaotong University *Sep 2015 - Jun 2019*

Bachelor of Science | Honor Science Program (Physics) *Xi'an, China*

- GPA: 84/100 Tsien Hsue-shen Honors Degrees
- Awards: Zhufeng Scholarship (2015 & 2016), Siyuan Scholarship (2017 & 2018)
- Courses: Electromagnetism, Quantum Mechanics, Electrodynamics, Statistical Physics, Experimental Physics, etc

University of Alberta *Jun 2018 - Jul 2018*

International Undergraduate Summer Enrichment Program in Mathematics *Edmonton, Canada*

- Grades: Excellence
  Project: Wavelets and Their Applications in Image Inpainting
  Lectures: An Introduction to Wavelets and its Applications, Statistical Machine Learn, Conformal Field Theory, etc.

PROJECT EXPERIENCE

The Comparative Study of Recommendation Algorithm and SVD Algorithm *Dec 2018 - Jun 2019*

Intern Researcher *Xi'an, China*

- Inspired by the quantum recommendation system, the classical recommendation algorithm which is exponentially accelerated under low-rank conditions are studied in detail. Studied the application of this algorithm - user-based KNN collaborative filtering algorithm and user-based K-means clustering recommendation algorithm.
- Constructed the kernel function of the support vector machine to study the application of this low-rank linear system solving algorithm in support vector machine.
- The final rating of this project: A+

Quantum Neural Network *Aug 2018 - Aug 2018*

Intern Researcher *Peking, China*

- Studied related documents on the random kitchen sink and the quantum kitchen sink, tried the algorithms in those documents
- Tried to realize quantum kitchen sink under a noise environment
- Compared the differences between QKS and ordinary quantum neural network ,explored the possible applications of QKS

Satellite Data Processing & The Study and Improvement of GAN Algorithm *Sep 2017 - Mar 2018*

Intern Researcher *Xi'an, China*

- Studied CS229 course of Stanford University , acquired knowledge about machine learning and deep learning
- Learned Generative Adversarial Network deeply , mainly through related papers
- Utilized artificial intelligence to process and analyze the scientific research task of satellite broad & narrowband signal
- Comprehended basic measure of data-processing and artificial intelligence

PROFESSIONAL EXPERIENCE

AIA Group Limited *Sep 2019 - Present*

Internship *Hong Kong SAR, China*

- Organized several activities, collected relevant data and information for recruitment, and operated social platforms.

LEADERSHIP EXPERIENCE

Shenyang Book Association *Sep 2015 - Jun 2018*

Chief Technology Officer *Xi'an, China*

- organized nearly 20 large-scale on-campus activities such as Reading Festival, Reading Salon, and Reading Week, and actively responsible for the production of promotional materials for the event. Among the largest on-campus activities, the Reading Festival has an average of more than 1,500 participants per day, and the total number of participants exceeds 10,000 (three years cumulative).
- built a book library management system on the WeChat mini program platform, manage more than 1000 members and 2000 books, members can book books online, reservation activities, etc.

MISCELLANEOUS

- **Skills:** C++, Python, HTML/CSS/JavaScript, MATLAB, SQL, R, Office, Tableau
- **Certifications:** Advanced Google Analytics
- **Languages:** English (Fluent), Mandarin (Native), Contonese (Basic)
- **Interests:** Fitness, Video editing