蒋俊庶

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求职意向：机器学习/大数据，软件开发

教育经历

华南农业大学（SCAU） 2014年9月 - 2018年7月

生物国家理科基地班 生命科学学院 广州

- GPA：3.9 / 5.0
- 荣誉/奖项：校级二等奖学金（2015，2016）
- 相关课程：计算机网络，Java，微机原理与技术接口等10门计算机，数学相关专业课

都柏林大学（UCD） 2016年9月 - 2017年9月

优秀本科生国际交流项目 科学学院 Dublin

- GPA：3.5 / 4.0
- 相关课程：人工智能，计算机图形学，集体智慧，数据库等9门计算机专业课

科研成果

- **名称：**GL-BLSTM: A novel structure of bidirectional long-short term memory for disulfide bonding state prediction（第一作者）
- **期刊：***Bioinformatics*（IF:7.3）（编辑审稿阶段）

海外实习经历

Insight Centre for Data Analytics 2017年5月 - 2017年9月

实习研究员 机器学习与统计组 UCD,Dublin

在Mohand Kechandi教授的指导下，完成以下两个任务：

- **机器学习算法的Hadoop实现**：探究利用分布式工具实现传统机器学习算法的性能提升，利用MapReduce/Spark等工具实现Kmeans和Autoencoder算法；在AWS上构建一个包含15台机器的集群测试传统实现和分布式实现的性能对比并撰写一份英文报告关于实现细节和性能对比的结果
- **实现LSTM网络用于指导骨折病患的康复训练**：模拟骨折病患康复的训练过程并收集运动传感器数据构建训练集；利用Python实现LSTM以传感器数据作为输入，判断康复训练中动作是否正确并取得较高的准确率；撰写一份英文报告描述实现细节以及实验结果的分析

项目经历

基于CNN网络识别甲骨文文字 2017年10月 - 2018年5月

核心成员 SCAU,广州

- 主要内容：构建爬虫程序并从互联网上收集了4万张中国古文字图片，利用Keras/Tensorflow构建CNN网络对甲骨文图片进行分类，达到82%的正确率
- 成果：尚未完成

基于LSTM网络预测半胱氨酸氧化状态 2017年11月 - 2018年3月

核心成员 SCAU,广州

- 内容：构造一个有层级关系的BiLSTM模型，将半胱氨酸氧化态预测的正确率提高4%，系现有模型中最高水平
- 成果：有一篇英文论文产出，目前投在*Bioinformatics*，在编辑审稿阶段

社团和组织经历

宣传委员 2015年9月 - 2016年9月

- 班服设计：收集同学对于班服的偏好，设计图案，定制样本给同学们展示，最终安排厂商定制了38件风格统一，支持个人自定义的班服，受到了同学们的好评
- 统筹后勤工作：在学院运动会期间，统筹后勤工作，安排值班人员，提供饮料供给

学院青年志愿者协会干事 2014年9月 - 2015年9月

- 沙面长者探访活动：组织志愿者前往沙面和当地老人沟通交流,并与沙面的社区委员会形成长期合作，定期安排志愿者探访当地长者
- 主持人：主持包括学院青志委员选举等若干次会议

班长 2014年9月 - 2015年9月

- 上通下达：在学习生活中，向老师反应同学的困难与需要，向同学传达学院的指令,保证老师和同学间的信息互通
- 组织活动：组织同学参加新生表演，导演话剧

技能/证书及其他

- **技能：** Linux（熟练在此环境下编程），Python（熟练使用），Keras/Tensorflow（有项目经历），网络爬虫
- **英语：** CET4/CET6，雅思（6.5），一年海外经历
- **爱好：** 球类运动（羽毛球），阅读，电影

Junshu Jiang

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Objective: Machine Learning/Big Data, Software Engineering

EDUCATION

South China Agricultural University (SCAU) *Sep 2014 - Jul 2018*

National Science Base Class in College of Life Sciences *Guangzhou*

- GPA: 3.9 / 5.0
- Honors/Awards: Second Prize Scholarship in SCAU (2015, 2016)
- Relevant Coursework: 10 computer science and mathematics-related modules, such as Computer Network, Mathematical Analysis, Principle and Interface Technology of Micro Computer

University College Dublin (UCD) *Sep 2015 - Sep 2016*

International Exchange Program in Science Major *Dublin*

- GPA: 3.5 / 4.0
- Relevant Coursework: 9 computer science and mathematics-related modules, such as Connectionlist Computing, Computer Graphics, Database, Collective Intelligence

PAPER SUBMITTED FOR PUBLICATION

- **Title:** GL-BLSTM: A novel structure of bidirectional long-short term memory for disulfide bonding state prediction(First author)
- **Journal:** *Bioinformatics* (IF: 7.3) (currently with editorial office)

INTERNSHIP EXPERIENCE

Insight Centre for Data Analytics *May 2017 - Sep 2017*

Intern in Research Group of Machine Learning and Statistics *UCD, Dublin*

Under the supervisor of Professor Mohand Kechandi, finished two tasks:

- Algorithm Implementation with Hadoop:

  tested the efficiency improvement when rewriting K-means and Autoencoder in distributed way, used MapReduce/Spark to implemented algorithms mentioned above and conducted comparison with traditional implementation; created a cluster of 15 machines on AWS to do experiment and accomplished a report describing implementation details and experiment results
- LSTM Implementation for Facilitating Rehabilitation Exercises:

  simulated rehabilitation exercises process and generated training data using motion sensors; used Python to implement LSTM network to determine whether action is right or wrong and achieved high accuracy; wrote a report demonstrating implementation details and result analysis

PROJECT EXPERIENCE

Oracle Character Recognition Based on CNN Model *Oct 2017 - May 2018*

Core Member *SCAU, Guangzhou*

- Project Description: wrote a web crawler and collected 40k of ancient Chinese character pictures (oracle and seal), built CNN model with Keras/Tensorflow and achieved 82% accuracy on oracle dataset
- Achievement: project not finished yet

Disulfide Bonding State Prediction Based on BiLSTM Model *Nov 2017 - Mar 2018*

Core Member *SCAU, Guangzhou*

- Project Description: built a hierarchy BiLSTM model, improved bonding state prediction accuracy on protein level by 4% which reached state of art
- Achievement: accomplished a paper and Submitted on *Bioinformatics,* currently with editorial office

LEADERSHIP EXPERIENCE

Commissary in Charge of Publicity

- Responsible for Class Uniform Design:

  surveyed among classmates, designed the logo and communicated with workshop to make clothes
- Responsible for Logistics Service in Sporting Meeting:

  made schedules for volunteer students, guaranteed support is reachable in emergency

Monitor *Sep 2014 - Sep 2015*

- Responsible for Communication between Students and Teachers
- Organized Activities in Orientation Week

SKILLS, CERTIFICATIONS & OTHERS

- **Skills:** Linux (familiar), Keras/Tensorflow (project experience), Web Crawler (collecting data)
- **English:** CET4/CET6, IELTS (6.5), One year experience in Ireland
- **Interests:** Sports (badminton), Reading, Watching movie