李 澄海

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教育

北京航空航天大学

北京

2017.09 - 2021.07(预期)

专业: 数学(华罗庚实验班) • 总GPA: 3.72/4.00

• 所修重点课程:

概率论,数理统计,实分析,复分析,数据结构,大学计算机基础(Python),经济学原理、 数值分析,抽象代数,数理逻辑,证券投资学概论,信息检索与网络应用

- 奖学金: 北航优秀学生(校级-3%), 北航学习优秀奖学金(校级-5%), 致真书院优秀学生(院级-8%)
- 竞赛奖励:全国大学生数学建模竞赛(2019-北京市(省)级一等奖)

伦敦国王大学 (KCL)

伦敦

暑期学校

2019.07 - 2019.08

• 所修课程: Technology and Healthcare: 80/100 (一等)

科研经历

Stabilize Variational auto-encoder (VAE) in Natural language processing (NLP) 应用于自然语言处理的稳定的变分自编码机

北京 2019.09 -

科研组内实习, 导师为荣文戈(副)教授, 北京航空航天大学计算机学院 以及林成华博士(高级讲师),谢菲尔德大学计算机系

- 探究分析KL-散度在NLP任务中消失的原因
- 探索NLP中合适的特征解耦表示

应用神经网络减少格点玻尔兹曼机的计算量

Reduce the computation cost of Lattice Boltzmann Method (LBM) using neural network

2019.07 - 2020.03(预期)

科研小组成员,导师为王鹏教授(青年千人),北航数学学院 以及修东滨教授,俄亥俄州立大学数学系(俄亥俄州著名数学家)

- 使用 Tensorflow-GPU 实现 LBM 算法
- 使用 PCA, DNN, VAE 以及 XGBoost 等算法,利用 LBM 的结果确定多孔材料中的有效扩散率

课外活动

Application of AI and big data in quantitative

在线

人工智能和大数据在量化交易中的应用(Online workshop)

2019.09 - 2019.12

导师为Bowei Ma博士,斯坦福大学计算与数学工程学院 (ICME)

- 建立了外汇 tick data 本地数据库(使用 MongoDB),并自动从在线 API 下载更新
- 编写了一个基本的量化交易系统(使用深度学习模型 LSTM, Transformer等)

致真书院-院学生会(传媒部成员)

北京

为书院活动制作海报及剪辑视频

2017.09 - 2018.06

FDT 冬季外汇公开赛 (demo account)

在线

获得478.42%收益率 名次:1/1644

2017.01

技能与其他

- 计算机编程: Python, C/C++(基础), NoSQL
- 机器学习: Tensorflow, Pytorch 等框架

Chenghai Li

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EDUCATION

Beihang University (BUAA)

Beijing

Bachelor in Mathematics (Hua Loo-Keng Experimental class)

Sep 2017 – Jun 2021 (expected)

- Cumulative GPA: 3.72/4.00
- Selected Coursework:

Probability theory, Mathematical statistics, Real analysis, Data structure, University Computer Foundation (Python), Theory of Economics, Numerical analysis, Complex analysis, Information retrieval and Internet application

• Honors: Beihang University Outstanding students (3%), Beihang University Studying Outstanding Scholarships (5%), College Merit Student (8%), CUMCM (Contemporary Undergraduate Mathematical Contest in Modeling) - First Prize at the provincial level

King's College London

London

Summer School

Jul 2019 - Aug 2019

• Course: Technology and Healthcare: 80/100 (A)

RESEARCH EXPERIENCE

Stabilize Variational auto-encoder (VAE) in Natural language processing (NLP)

Beijing

Sep 2019 –

Internship in group, supervised by Professor Wenge Rong,

School of Computer Science and Engineering, Behang University (BUAA) & Dr Chenghua Lin, Department of Computer Science, University of Sheffield

- Analytically determine the reason of KL-Divergence vanishment
- Explore disentangled representation in NLP

Reduce the computation cost of Lattice Boltzmann Method (LBM) using neural network

Beijing

Group member, supervised by Professor Peng Wang,

Jul 2019 — Mar 2020 (expected)

School of Mathematics and Systems Science, Behang University (BUAA) &

Professor Dongbin Xiu, Ohio Eminent Scholar, Department of Mathematics, Ohio State University

- Tensorflow implementation of LBM (GPU based)
- Tried PCA, DNN, VAE and XGBoost in determining D-effective of porous media

EXTRACURRICULAR ACTIVITIES

Application of AI and big data in quantitative

Online

Online workshop

Sep 2019 - Dec 2019

Supervised by Dr Bowei Ma, ICME, Stanford University

- Establish a database for tick data and automatically update from online API
- Build a basic trading system using python (Using deep-learning models: LSTM, Transformer etc.)

College Student union

Beijing

Member of Media Department

Sep 2017 – Jun 2018

• Making posters and Editing videos for college activations

FDT forex trading competition (demo account)

Online

• Achieve 478. 42% profit (1st place/1644)

Jan 2017

TECHNICAL SKILLS & MISCELLANEOUS

- Computer: Python (including Tensorflow & Pytorch), C/C++(entry-level), NoSQL
- Interests: Forex trading, Machine Learning, Running