

Hangyu Lin

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EDUCATION

FUDAN UNIVERSITY

M.S. IN STATISTICS (MACHINE LEARNING)

Sep 2018 - Present | Shanghai

Ave GPA: 3.86 / 4.0

Cum Rank: 1 / 31

FUDAN UNIVERSITY

B.E. IN SOFTWARE ENGINEERING (DATA SCIENCE AND BIG DATA)

Sep 2014 - Jun 2018 | Shanghai

Ave GPA: 3.63 / 4.0

Cum Rank: 3 / 36

Major GPA: 3.93 / 4.0

COURSEWORK

M.S. Courses

Advanced Statistical Learning (A)

Semiparametric Statistics (A)

Advanced Statistical Methods (A)

B.E. Courses

Advanced Calculus (A)

Data Visualization (A)

Statistics: Principle, Methods and R (A)

Introduction to Computer System (A)

COURSEPROJECTS

Image Recognition

(Implement many machine learning and deep learning methods)

Chinese Word Segmentation

(CRF,HMM)

Pacman Contest

(Q-learning, Minimax Search,

Monte-carlo Tree Search,and particle filter)

WindFlow Visualization

SKILLS

PROGRAMMING

Fluent at

Python • C • C++ • \LaTeX

Familiar with:

Java • JavaScript • CSS

MACHINE LEARNING

Pytorch • Keras • Tensorflow • MXnet

OPERATING SYSTEM

Linux • Windows • Mac OS

EXPERIENCE

YITU | SOFTWARE ENGINEERING INTERN

Jul 2017 -Aug 2017 | Shanghai, China

- Worked in the Face Platform team, **use C++ to implement the encryption module** for the system.
- **Finished** the function test and performance test of this encryption module.
- All code was **reviewed, and pushed** to production.

MEGVII | ALGORITHM ENGINEERING INTERN

Jun 2018 -Sep 2018 | Beijing, China

- Focus on **image inpainting** and **style transfer** tasks.
- Propose a new iterative method which achieve the state-of-art performance for image inpainting.
- Use **PyTorch** to reimplement several algorithms for image inpainting.

PUBLICATIONS

- W. Cui, X. Zhou, **H. Lin**, et al. Verb Pattern:A Probabilistic Semantic Representation on Verbs. In Proc. **AAAI** 2016.
- **H. Lin**, Y. Fu, P. Lu, et.al. TC-Net for iSBIR: Triplet Classification Network for instance-level Sketch Based Image Retrieval (**Oral**). In Proc. **ACM Multimedia** 2019.

PROJECTS

REIMPLEMENTATION FOR DEEPFILLV2(GITHUB 160+ STARS)

- Reimplement the deepfill v2 algorithm for image inpainting in **Pytorch**.
- Achieve the same performance as the original code implementation.

IMPLEMENTATION OF SKETCHBERT FOR SKETCH GASTALT

- Implement a BERT based model for sketch representation.
- Achieve state-of-art performances on different sketch based tasks. e.g., classification, retrieval.

AWARDS

- 2014 The Second Prize Scholarship of Fudan University (top 15%)
- 2015 The Second Prize Scholarship of Fudan University (top 15%)
- 2016 The EMC Prize Scholarship(top 10%)
- 2017 Meritorious Winner of Mathematical Contest in Modeling(top 15%)
- 2017 1st runner-up of iShamrock Software Competition(top 10%)
- 2017 National Scholarships(top 3%)
- 2019 National Scholarships(top 3%)

林 航宇

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教育经历

复旦大学

硕士: 统计学

(机器学习方向)

GPA: 3.86/ 4.0

排名: 1 / 36

本科: 软件工程

(数据科学方向)

GPA: 3.62 / 4.0

排名: 3 / 36

专业 GPA: 3.93 / 4.0

主修课程

高等统计学习 (A)

半参数统计 (A)

高等概率论 (A) 高等统计方法 (A)

统计学基础: 原理、方法及 R 应用 (A)

计算机系统基础 (A)

数据结构与算法设计 (A)

课程项目

图像分类任务

(实现了多个机器学习及深度学习算法)

中文分词 (实现 CRF, HMM 算法)

Wikipedia 文本分析

风力可视化

技能

编程

熟练掌握:

Python • C • C++ • \LaTeX

熟悉:

cuda • JavaScript • CSS

机器学习

Pytorch • Keras • Tensorflow

分布式框架

Hadoop • Spark

学习工作经历

依图科技公司 | 算法研究实习生

7 月 2017 - 8 月 2017 | 上海

- 在人像大平台组实习, 使用 C++ 实现了系统的加密模块.
- 完成了加密模块的功能测试以及性能测试.
- 所有代码均被检查, 并集成到新一版本的产品中.

旷视科技公司 | 算法研究实习生

5 月 2018 - 9 月 2018 | 北京

- 进行图像补全和风格迁移的研究工作.
- 提出了迭代补全的算法并完成相关论文.
- 完成多个相关算法的实现.

发表论文

- W. Cui, X. Zhou, H. Lin, et al. Verb Pattern: A Probabilistic Semantic Representation on Verbs. In Proc. AAAI 2016.
- H. Lin, Y. Fu, P. Lu, et al. TC-Net for iSBIR: Triplet Classification Network for instance-level Sketch Based Image Retrieval (Oral). In Proc. ACM Multimedia 2019.

项目实践

DEEPFILLV2 算法的 PYTORCH 实现 (GITHUB 160+ STARS)

- 使用 Pytorch 重现了图像补全算法 deepfill v2.
- 达到了相同的最优效果.

实现了有关手绘草图的理解模型 SKETCHBERT

- 实现了基于 BERT 的手绘草图的理解模型.
- 在各个手绘草图理解任务上达到了领先的效果.

获奖情况

2014 复旦大学优秀本科生二等奖 (top 15 %)

2015 复旦大学优秀本科生二等奖 (top 15 %)

2016 EMC 优秀学生奖学金 (top 10 %)

2017 复旦大学三叶草竞赛一等奖 (top 10 %)

2017 国家奖学金 (top 3%)

2019 国家奖学金 (top 3%)