

Qi Feng

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Summary

Dedicated Computer Science Ph.D. student and experienced software engineer working in Computer Vision with firm background in machine learning seeking research fellowships and internships.

Education

Boston University

Ph.D. Student in Computer Science

Adviser: Prof. Stan Sclaroff.

Boston, MA

Present

Courant Institute of Mathematical Sciences, New York University

Master of Science in Computer Science, GPA 3.83/4.0

New York, NY

May 2017

Beihang University

Bachelor of Science in Applied Mathematics, GPA 3.52/4.0

Beijing, China

June 2015

Research Experience

Using Generative Models to Hide Sensitive Information from Data

Independent Study, Supervisor: Vasant Dhar(vdhar@stern.nyu.edu)

Modeled and experimented that generative adversarial networks and its variants can be used to learn and generate synthetic data sets that represent the distribution of input datasets yet hide sensitive information.

Stern, NYU

Jan. 2017 – May 2017

Estimating the Lifetime Potential of Scholars

Independent Study, Supervisor: Panos Ipeirotis (panos@stern.nyu.edu)

Presented a technique for predicting the future impact of a researcher on the scientific community, based on the total number of citations to the researcher's publications. Demonstrated that the time series of accumulated citations can be utilized to predict the future evolution of the series, reaching a reasonable performance. The proposed model accurately predicts future impact and outperforms existing baselines by more than 20%.

Stern, NYU

Feb. 2016 – Aug. 2016

Impact of Noise on Boosting

Research Fellowship Project, Supervisor: Mehryar Mohri (mohri@cs.nyu.edu)

Proposed a noise model based on the distribution maintained in the Adaboost. Noise are argued to be distributed over this distribution. Reported that Adaboost has a good performance with the noise we introduced. This work coincides with multiple reports that boosting in general has a good performance in practice, and contradicts with robustness analysis based on the uniformly distributed noise model.

CIMS, NYU

Dec. 2015 – May 2016

Item-level Urban Structure Prediction

Undergraduate Graduation Project, Supervisor: Biao Leng (lengbiao@buaa.edu.cn)

Defined an item-level prediction problem for taxi behaviors. Predicted the item-level behavior of taxi travels based on taxi travel records. Refined an algorithm in social influence prediction in order to solve the sparsity problem. Introduced Probabilistic Hybrid-Factor Matrix Factorization (PHF-MF) method to urban computing. Evaluated the performance of the enhanced method with existing methods by RMSE.

Beihang University

Jan. 2015 – June 2015

Network Congestion Optimization

Optimization Project, Supervisor: Hongying Liu (liuhongying@buaa.edu.cn)

Introduced an optimization problem for network utility by establishing a universal model of network congestion measure. Concluded the concise network congestion minimization problem, based on the Lagrange Dual of the primal problem. Processed and evaluated the algorithm using NS-3. Proved that the duality model perfectly solves the real problem of TCP/IP congestion control.

Beihang University

Jan. 2014 – Feb. 2014

Honors and Awards

2016: M.S. Research Fellowship, CS Department, CIMS, NYU

2015: Outstanding Graduates, Beihang University

2014: Scholarship for Outstanding Academic Competition Results, Beihang University

2013: Meritorious Winner, The Mathematical Contest in Modeling, COMAP

2013: Secondary Prize of MUMCM 2013, Beijing

2012: Third Prize of 23rd Fengru Competition, Beihang.

2011: Principal Freshmen Scholarship, Beihang.

Internships & Teaching Experience

Google Inc.

Software Engineering Intern

Created components that allow summaries for Google's internal data curation service to be persisted. Enhanced UI to reflect real transfer stages and curation statistics. Improved UI loading time by utilizing the persisted summaries.

Mountain View, CA

May 2017 – Aug. 2017

CSCI-UA.0102 Data Structures

Section Leader

Undergraduate class, led recitations, held office hours, managed grading for Professor Chee Yap.

CIMS, NYU

Sept. 2016 – Dec. 2016

Google Inc.

Software Engineering Intern

Created an rpc service that takes a new set of constraints and evaluates the impact of the new constraints versus existing constraints. This service enabled planners/users to see the impact of new or updated constraints and also prevent them from creating mutually exclusive constraints.

San Francisco, CA

Jun. 2016 – Sept. 2016

Kangxin Partners (kangxin.com)

IT Professional Intern

Managed IT infrastructure and maintain server operations. Advise for advanced virtualization technologies on VMware platform.

Beijing, China

Nov.2014 – Apr. 2015

United Science International Co., LTD

Software Engineer Intern, Biomedical Testing Service Company for Beckman Coulter

Developed a package management database system to solve the problem of uncontrolled package flow inside the company.

Beijing, China

July 2013

Technical Skills

Programming: Java, Python and C#. Also comfortable with C, C++ and Go.

IT Pro.: Professional Windows administration. VMware and Hyper-V.

Deep Learning: TensorFlow. Experienced in various machine learning theories and techniques.