

## Education Background

**University of California Santa Cruz** 09/2013-now

Computer Science, Master of Science (expected)

**Beijing University of Posts and Telecommunications**

09/2009-06/2013

Telecommunications Engineering, Bachelor of Science in Engineering

## Research Experiences

**Algorithm for Implicit Community Discovery in Micro-blog (phase 2)** 11/2012-05/2013

Final project for undergraduate students

- Built a three-node Map-Reduce platform with HBase using Hadoop on Linux
- Implemented a distributed crawler on Map-Reduce platform

**Algorithm for Implicit Community Discovery in Micro-blog (phase 1)** 09/2011-09/2012

National University Student Innovation Experiment Project, **Independently** completed tasks:

- Designed and implemented a micro-blog crawler with Sina openAPI
- Algorithms for detecting key nodes, community structure and information diffusion model
- Verified the algorithms with ground-truth dataset and visualized the topological structure

## Publication

Xiaoyuan Lu, Yidong Cui, *the Study of Micro-blog Information Diffusion Model based on Community Structure Detection*, Proceedings of **ICMIA 2012**. pp 607-611

## Intern ship

**E2E department, Lenovo Corporate Research Development** 04/2013-08/2013

Took part in implementing Advanced Message Queuing Protocol (AMQP) for Lenovo ID

- Built and configured two sets of AMQP server clusters using RabbitMQ
- Added HAproxy node and zookeeper to the clusters
- Took part in unit test and stress test of the project

## Relevant Experiences

**Implementing image processing algorithms** 11/2012

Algorithms include sub and up sampling, scaling, rotating, adding noise, filtering noise(Gaussian and Low pass filter), edge detection, format converting, quantization, equalization, histogram modeling, computing PSNR and MSE

**Implementing a FTP Server in Multi-thread Mode** 04/2012

Implemented a multithread FTP server without using the easier reference model based on select () functions provided by the faculty lecturer

**Intelligent Parking System** 05/2013

Key member of the software engineering coursework team, worked **independently** with requirement analysis, system design (UML) and 3000 lines of coding

**OSPF Router based on FreeBSD** 11/2011

Configured FreeBSD hosts with OSPF that maintain dynamic changing routing table

## Teaching Assistant

TA for C programming Lab in Software Engineering School of BUPT

09/2012-12/2012