YIHAO FENG

I lewisfyh2012@gmail.com ⋅ **(**+86) 156-529-54818

EDUCATION

Beihang University (BUAA), Beijng, China

Aug.2012 –Jul.2016 (Expected)

B.E. in Softerware Engineering

Rank: 4 / 134 Overall GPA: 3.74 / 4 (Major GPA: 3.85 / 4)

PROGRAMMING SKILLS

- Programming Languages: C/C++, Java, C#, PHP, Python, JavaScript,
- Programming Framework: Node.js, Django, Android, WPF
- Scientiific Software & System: Matlab, Mathematics, Weka, Hadoop, openSMILE, Torch, LightSide
- Database: MySQL, Microsoft SQL Server, MongoDB

EXPERIENCE & RESEARCH

ArticuLab, Carnegie Mellon University, USA

Jul.2015 - Sept.2015

Summer Research Intern Adviser: Prof.Justine Cassell & Dr.Alexandros Papangelis

Research Topic: Modelling rapport in human or human-virtual peer conversation in a multimodal way

- Extracted visual and acoustic features by using openSMILE and CLM-Framework and synthesized them.
- Dealt with cleaning data, feature selection, imbalanced data problems and ran baseline with Weka.
- Applied linear-CRF to model rapport in a temporal way and achieved a result of 74% accuracy.
- Tried to capture inner correlation of rapport by using HCRF and achieved a result of 70% accuracy.

State Key Laboratory of Machine Perception, Peking University, China

Oct.2014 – Present

Undergraduate Research Assistant Adviser: Prof.Guojie Song

Research Topic: Inferring social relations among users in mobile social network

- Proposed a method to extract geographical context meaning from LBS service based on **TF-IDF**.
- Ameliorated imbalanced problem by applying a distribution-sensitive learning parameter in graphs.
- Built a Triadic factor in the model by adopting the Structural Balance Theory in our mobile social network.
- Built a model called BTFG(Balanced Triadic Factor Graph) based on factor graph and bellowing discovery.

Mathematical Modeling & Algorithms Laboratory, University of Tsukuba, Japan

Jul.2014

Acadamic Visitor Adviser: Dr. Yasuyuki Maeda

Research Topic: Basic research realization in Image Recognition

- Learned Basic Machine Learning method(SVM, PCA) to solve Image Recognition problem.
- Applied the PCA,SVD method to Recognize simple handwriting numbers by using Matlab.

Mobile & Big Data Department, Zhiquan.Inc, China

Feb.2015-Jun.2015

Software Engineer Adviser: Dr. Yun Lu Project: Zhiquan Android App Platform

• Built the IM chat and social relation part of the Android App.

• Implemented the initial version of User Recommendation System based on User-Based algorithms.

SELECTED CURRICULUM DESIGN

Project: Online Hospital Booking System

Oct.2014-Jan.2015

Project Manager & Back-end Developer Adviser: Dr. Huobin Tan

- Designed the system architeture and set up the system development & operating enviorment.
- Designed and built the collections of nosql Database MongoDB.

• Realized and tested the back-end of the system using NodeJS.

Project: Android Smartphone Assistant

Mar.2014-Jun.2014

Android Developer Adviser: Prof. Yunxiang Lu

- Analyzed project requirements with software engineering methodologies.
- Designed algorithms of trash cleaning and implemented the method of app locker.
- Developed the Android app with another student.

Project: Android App of Car Pooling

Mar.2014-Jun.2014

Android & Back-end Developer Adviser: Sir.Jun Lin

- Designed the system with Agile methodology.
- Designed algorithms of how to find the suitable car for users.
- implemented the server of the system using LAMP.

HONORS AND AWARDS

 National Scholarship For Excellent Academic Performance (Top 2%) 	Sept.2013
• National Endeavor Scholarship (Top 5%)	Sept.2014
• Excellent Student, Beihang University(Top 5%, continued 2 years)	Sept.2012-Sept.2014
• 2 nd Prize, Mathematics Competitions of Beihang University	Jun.2013
• 1 st Prize of Beijing, China Undergraduate Mathematical Contest in Modeling	Sept.2014
• <i>Meritorious</i> winner, Mathematical Contest in Modeling (Top 13%)	Apr.2015

MISCELLANEOUS

- Area of Interests: Probabilistic Graphical Models, Social Network, Multimodal, Data Mining
- English: CET-4: 609 / 720 CET-6: 584 / 720 TOFEL: 96 / 120
- Persoonal Website: http://lewiskit.github.io
- Github: https://github.com/lewisKit
- LinkedIn: https://cn.linkedin.com/in/yihao-feng-15937488