

# Yi Yang

[yiyang@gatech.edu](mailto:yiyang@gatech.edu) 404-263-6322 <http://www.cc.gatech.edu/~yyang319/>

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**OBJECTIVE** To obtain an internship with a focus on NLP, Information Retrieval and Information Security

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## EDUCATION

- Aug. 2011 – present* **Georgia Institute Technology, Atlanta, GA, USA**  
**PhD student** in School of Computer Science, College of Computing
- Sep. 2007 – Jun. 2011* **Beihang University (formerly Beijing University of Aeronautics and Astronautics), China**  
**B.S. Major** in Software Engineering, GPA: 3.70/4.0, Major GPA: 3.88/4.0, Rank: 2/144

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## RESEARCH EXPERIENCE

- Aug. 2011 – present* **Research Assistant, Data Intensive Systems Lab, CERCS**  
**School of Computer Science, College of Computing, Georgia Institute Technology**  
**Project 1: Detecting Fake Follower in Twitter**
- Analyzed the existence of fake followers in Twitter.
  - Proposed profile based features and graph based features for this task.
  - Employed graph based semi-supervised learning method for this task.
- Aug. 2010 – Jan. 2011* **Research Assistant, Intelligent Information Processing and Bioinformatics Group**  
**National Lab of Intelligent Technology & Systems, Tsinghua University**  
**Project 1: Learning to Identify Review Spam**
- Built a spam collection from our crawled reviews.
  - Described the influence of different features in the supervised learning framework.
  - Proposed a co-training strategy which based on review features and reviewer features respectively.
- Jul. 2010 – Dec. 2010* **Project 2: Incorporating Quality Measures for Ranking Short Texts**
- Proposed a regression model to recommend high-quality tweets in response to a user query.
  - Various features including query relevance, content quality and user authority and profile, are chosen to quantify the quality measures
  - Proposed several regularization factors to produce prediction more consistently and reliably.
- Dec. 2009 – Jun. 2010* **Project 3: Patent Similarity Measurement and Patent Classification**
- Determined the similar patents to a given patent in a patent corpus. Built a term weighted model(ELT) based on tree structure which took advantages of claim mention.
  - Constructed query by extracting significant terms which weighted using ELT and retrieve similar patents with search tool Indri.
  - Hierarchical Multi-label Classification of Patents using Two-way Poisson mixture models.
- Jul. 2010 – Nov. 2010* **Research Assistant, Knowledge Engineering Lab (Group)**  
**Department of Computer Science and Technology, Tsinghua University**  
**Project 1: Query Understanding for Web Search over Heterogeneous Networks**
- Proposed an iterative reinforcement approach called Quoter, which combined the two steps: query segmentation (using bigram model), entity classification (using unigram model), and iterative reinforce the performance for query understanding.
  - Applied the proposed approach to a real academic search system Arnetminer, which improves the utility of the system.

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## PUBLICATIONS

- Fangtao Li, Minlie Huang, **Yi Yang**, Xiaoyan Zhu Learning to Identify Review Spam. To Appear in Proceedings of the Twenty-Second International Joint Conference On Artificial Intelligence (IJCAI 2011). (Full Oral Paper) (227/1325=17%)
- Minlie Huang, **Yi Yang**, and Xiaoyan Zhu. Quality-biased Ranking of Short Texts in Microblogging Services. In Proceedings of the 5th International Joint Conference on Natural Language Processing (IJCNLP 2011). (Oral Paper)
- Rezarta Islamaj Doğan, **Yi Yang**, Aurélie Névéol, Minlie Huang, Zhiyong Lu, Identifying protein-protein interactions in biomedical text articles. In Proceedings of the Third BioCreative Challenge Evaluation Workshop

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## SELECTED SOFTWARE PROJECTS

- Mar. 2010 – Mar. 2010* **Internship, Beijing Key Laboratory of Network Technology**  
**Project: Network Node Mobility Model Simulator based on MANET**

- By configuring the scene and one of the nodes, using cloud model to simulate the node movement in order to research and explore the optimization of mobile network nodes.
- Simulate the scene of a fire and the division and convergence of the troops.

### **Internship, School of Software of Beihang University (BUAA)**

*Sep. 2009 – Dec. 2009* **Project 1: Undergraduate Students BBS System**

- Realized the functions of basic BBS system and provided as a platform for sharing resources.
- Implemented the system using JSP, MySql.

*Aug. 2009 – Oct. 2009* **Project 2: Graduated Students Thesis Answer System**

- Realized the information management of answer flow and improve working efficiency.
- Implemented the system with ASP.NET, Oracle.

*Nov. 2008 – Aug. 2009* **Project 3: Programming Online Judge System**

- Provided a platform of online program development which has the functions of editing, saving, compiling and also support multiplayer develop and share the same program at the same time.

### **WORK EXPERIENCE**

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*Jun. 2008 – Aug. 2008* **Internship, ChinaMobile Company Intern**

- Helped communicate with clients, handled IT affairs and maintained the company inner system

### **TEACHING EXPERIENCE**

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*Sep. 2009 – Jan. 2010* **Teaching Assistant, School of Software Engineering, Beihang University**

- Undergraduate Course: Algorithm Analysis & Design

*Sep. 2010 – Jan. 2011* **Teaching Assistant, School of Software Engineering, Beihang University**

- Undergraduate Course: Java Programming Language

*Mar. 2011 – Present* **Teaching Assistant, School of Software Engineering, Beihang University**

- Undergraduate Course: J2EE Architecture

### **COMPUTER SKILLS**

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- Research Interest: Natural Language Processing, Data Mining, Information Retrieval, Information Security
- Programming Language: C, C#, C++, Java
- Web Technologies: HTML, ASP, JavaScript, JSP
- Databases: SQL Server, Oracle, MySql

### **AWARDS AND HONORS**

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- Sep. 2010* Excellent Student of Beihang University (Top 1%)
- Sep. 2010* First Prize for Academic Excellent Student (Top 2%), Beihang University
- Sep. 2009* Third Prize for ACM Programming Contest (Top 7 out of 160), Beihang University
- Sep. 2009* First Prize for Innovative Student (Top 2%), Beihang University
- Sep. 2009* Second Prize for Academic Excellent Student (Top 5%), Beihang University
- Sep. 2009* National Scholarship(Top 2%), P.R.China
- Sep. 2009* Merit Student of Beihang University (Top 10%)
- Sep. 2008* Third Prize for Academic Excellent Student (Top 10%), Beihang University
- Sep. 2008* Second Prize for Innovative Student (Top 10%), Beihang University