

# Lei Zou

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Male, 27

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## DEGREE :

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**PhD Degree in Computer Science**

## RESEARCH INTERESTS

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- **Graph Database and Graph Mining (PhD thesis topic):** frequent sub-graph mining algorithms, sub-graph search in the large graph database, graph indexing in the graph database and improve web search quality by social network analysis.
- **Social Network Analysis and Privacy in Social Network.**
- **RFID and Sensor Data Management.**

## RESEARCH EXPERIENCE

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- **Visiting Scholar in University of Waterloo**  
Oct. 2008 ~ Oct.2009, University of Waterloo
- **Visiting Scholar in HKUST**  
Dec, 2006 ~ June, 2006, Hong Kong University of Science and Technology (HKUST)
- **PC Member:**  
1st International Workshop on Mobile Business Collaboration (DASFAA 09 Workshop)
- **External Reviewer:**
  1. 20th International Conference on Scientific and Statistical Database Management (SSDBM 08)
  2. 12th International Conference on Extending Database Technology (EDBT 09)
- Oral Presentation in
  - The 24th International Conference on Data Engineering (**ICDE 08**), Cancun, Mexico
  - The 13th International Conference on Database Systems for Advanced Applications (**DASFAA 08**), Delhi, India
  - The 7-th international conference on Web Information Systems Engineering (**WISE 06**), Wuhan, China
  - The International Conference on Data Mining (ICDM) workshop 2006, HK

## PUBLICATIONS

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### Refereed Journal Papers:

1. **Lei Zou**, Lei Chen, An Efficient Indexing Structure to Answer Top-K Queries, submitted to IEEE Transactions on Knowledge and Data Engineering (IEEE TKDE) (*Under Review*)
2. **Lei Zou**, Lei Chen, GCoding: Spectral Coding in Graph Databases, submitted to IEEE Transaction on Knowledge and Data Engineering (IEEE TKDE) (*Under Review*)

### Refereed Conference Papers:

1. **Lei Zou**, Lei Chen, Dominant Graph: An Efficient Indexing Structure to Answer Top-K Queries, to appear in Proceedings of the 24th International Conference on Data Engineering (**ICDE 08**), 2008 (full presentation paper, acceptance rate 12.1%).
2. **Lei Zou**, Lei Chen, Jeffrey Xu Yu, Yansheng Lu, A Novel Spectral Coding in a Large Graph Database, in Proceedings of International Conference on Extending Database Technology (**EDBT**), 2008.
3. **Lei Zou**, Lei Chen, Huaming Zhang, Yansheng Lu, Qiong Lou, Summarization Graph Indexing: Beyond Frequent Structure-based Approach, in Proceedings of 13th International Conference on Database Systems for Advanced Applications (**DASFAA**), 2008 (full paper, acceptance rate 16%).
4. **Lei Zou**, Lei Chen, Yansheng Lu, Top-K Correlation Sub-graph Search in Graph Databases, to

appear in Proceedings of 14th International Conference on Database Systems for Advanced Applications (DASFAA), 2009 (full paper).

5. **Lei Zou**, Yansheng Lu, Huaming Zhang, Rong Hu, Chong Zhou, Mining Frequent Induced Subtree Patterns with Subtree-Constraint, in Proceedings of International Conference on Data Mining Workshops (ICDM workshop), 2006.

5. **Lei Zou**, Yansheng Lu, Huaming Zhang, Rong Hu, PrefixTreeESpan: A Pattern Growth Algorithm for Mining Embedded Subtrees, in Proceedings of the 7-th international conference on Web Information Systems Engineering (WISE), 2006.

6. **Lei Zou**, Lei Chen, Yansheng Lu, Top-K Subgraph Matching Query in A Large Graph, International Conference on Information and Knowledge Management workshop (CIKM workshop), 2007

7. Chong Zhou, Yansheng Lu, **Lei Zou**, Rong Hu, FICW: Frequent Itemset-Based Text Clustering with Window Constraint. *Wuhan University Journal of Natural Sciences*, vol. 11, pp. 13645-1351, 2006 (WISA2006 best paper)

## EDUCATION

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### ■ 2005.4-2009.6 (Expected)

**PHD Candidate of Computer Science & Technology, Huazhong University of Science & Technology (HUST)**

GPA: 84.1 Rank: 5 out of 35 Research: graph mining and graph database

### ■ 2003.9 - 2005.3

**Master Candidate of Computer Science & Technology, HUST**

GPA: 81.4 Rank: 30 out of 330 Research: Text Classification

**Recommended for HUST's PhD Program without examination**

### ■ 1999.9 - 2003.7

**Bachelor Degree of Computer Science & Technology, HUST**

GPA: 85.1 Rank: 25 out of 420

**Recommended for HUST's Master Program without examination**

## SCHOLARSHIPS & HONORS

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|--|-----------|-------------|
| ■ "Excellent Graduate Student" honor in HUST                               | (top 5%)  | 2006        |
| ■ "Full Scholarship for PHD Students" honor in HUST                        | (top 10%) | 2005 ~ 2009 |
| ■ "Full Scholarship for Master Students" honor in HUST                     | (top 10%) | 2003, 2004  |
| ■ "Second Class Scholarship" honor in HUST                                 | (top 5%)  | 2002        |
| ■ "Third Class Scholarship" honor in HUST                                  | (top 10%) | 2000, 2001  |
| ■ "Third Class Award for National Olympic Math Competition in High School" |           | 1998        |

## PROFESSIONAL SKILLS

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- Skilled in **C/C++ and data structures**, all algorithms in the experiments are implemented by **C++**
- Proficient in **data mining algorithms**, such as frequent pattern mining and cluster algorithms. Research experiments in **web mining and graph mining**.
- Project experience in developing with **MS SQL 2000 Server**

## ENGLISH

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- Both oral and written fluency in English.

## TEACHING EXPERIENCE

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- Sep. 2005 – Jan. 2006, Instructor, Huazhong University of Science and Technology.  
Course: C Language  
Responsibilities: 60 hours.
- Sep. 2006, Teaching Assistant, Huazhong University of Science and Technology

Course: Advanced Data Mining Algorithms and Applications

Responsibilities: 8-hour tutorials on Data Mining Algorithms (Graph Mining Algorithms and Graph Database)

- Sep. 2006, Part-time Instructor, Wuhan University of Science and Technology  
Course: Data Mining

Responsibilities: 4-hour tutorials on Data Mining Algorithms (Frequent Pattern Mining)

## **SELF-ASSESSMENT**

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- Very interested in research
- Aggressive and fast-learning, hard-working
- Powerful team spirit and good at communicating with others

## **REFERENCE**

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### **Prof. Yansheng Lu (Graduate Supervisor)**

Modern DBMS and Software Engineering Lab.,

Huazhong University of Science and Technology.

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### **Prof. Lei Chen (Advisor in HKUST)**

Hong Kong University of Science and Technology, HK

Tel: 852-2358 6980 (office), Email: leichen@cse.ust.hk

### **Prof. M. Tamer Ozsü (Advisor in University of Waterloo)**

University of Waterloo, Canada

Tel: +1(519)885 1208, Email: tozsü@cs.uwaterloo.ca

### **Prof. Huaming Zhang**

The University of Alabama in Huntsville, Huntsville, USA

Tel: 1-256-824-5084, Email: hzhang@cs.uah.edu

*Reference Letters are Available if Required*