# Ke Tao
## Curriculum Vitae

*Web Information Systems*
*Delft University of Technology*
*Mekelweg 4, 2628 CD Delft*
*the Netherlands*
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✉ *k.tao@tudelft.nl*
*@taubau*

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## Personal Information

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| Day of birth | 19th October 1988 |
| Place of birth | Beijing, China |
| Citizenship | Chinese |
| Marital Status | single |

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## Education

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| 2010 – now | **PhD student in Computer Science**, *Delft University of Technology*, Topic: Information extraction and search in microblogging streams. |
| 2007 – 2009 | **Master of Science in Computer Science**, *National University of Defense Technology*, Thesis: *Research on Frequent Itemsets Mining Technology over Data Streams*. |
| 2003 – 2007 | **Bachelor of Science in Computer Science**, *National University of Defense Technology*, Thesis: *The design and implementation of TaToS : A Visualized Simulator of Peer-to-Peer System*. |

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## Work Experiences

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| October 2010 – now | **PhD student, Researcher**, *Web Information Systems Group at Delft University of Technology*, Delft, the Netherlands, I am studying as a PhD student (mentors: dr. ir. Geert-Jan Houben, Dr. Claudia Hauff, and Dr. Fabian Abel). Main research interests: search on social web, user modeling, and personalisation. *http://www.wis.ewi.tudelft.nl/.* |

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## Projects

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| September 2011 – now | **Twinder**, *Research line*, http://wis.ewi.tudelft.nl/twinder/. Research line on search in the Social Web, especially Twitter. My role in the project: ideas, design, implementation. |
| June 2011 – now | **Twitcident**, *Research line*, http://wis.ewi.tudelft.nl/twitcident/. Research line on mining social media in times of crises. My role in the project: ideas, case analysis, algorithms design, implementation. |
| January 2011 – now | **PersWeb**, *Research line*, http://persweb.org. Research line on personalisation in the Social Web. My role in the project: researcher. |
| January 2011 – now | **U-Sem**, *Coding project*, http://u-sem.org. User Modeling infrastructure for the Social Web with services such as TUMS (Twitter-based User Modeling Service) that analyses user behaviour on Twitter streams. My role in the project: design, implementation of application and programming interface. |
| October 2006 – March 2007 | **CMM Tools**, *Coding project*. CMM (Capability Maturity Model for Software) Tools for School of Computer, National University of Defense Technology. My role in the project: design, implementation of web-based automatical documenting system. |

## Technology Capabilities

Java, C, C++, Python

Distributed computing, Hadoop

Statistical analysis, R

Numerical analysis, Octave

Scripting languages, HTML/XHTML, CSS, Shell Scripting

Querying languages, SQL, SPARQL

## Research Interests

Search and Ranking

Data Mining

Data Visualisation

User Modeling and Personalisation

Semantic Web

## Teaching Experiences

**October 2012 – January 2013**
**Guest Lecturer**, *Web and Semantic Web Engineering*, Delft University of Technology.
Giving lectures, designing, grading assignments of generating user profiles, and constructing and analysing features for solving a given problem

**September 2008 – January 2009**
**Teaching Assistant**, *Artificial Intelligence*, National University of Defense Technology.
Design and grading of homework and project assignments; organizing and translating materials in English for lecturer

**March 2008 – June 2008**
**Teaching Assistant**, *Project Workshop of Object-Oriented Programming*, National University of Defense Technology.
Instruction on C++ programming, building Windows application, evaluation and grading of the final works.

## Publications

**WWW '13**
Ke Tao, Fabian Abel, Claudia Hauff, Geert-Jan Houben, Ujwal Gadiraju. Groundhog Day: Near-Duplicate Detection on Twitter. Accepted at: *International Conference on World Wide Web (WWW)*, Rio de Janeiro, Brazil, May 2013

**IJCAI '13**
Twitter-based User Modeling for News Recommendations. Invited by: *International Joint Conference on Artificial Intelligence (IJCAI)*, Beijing, China, August 2013. Co-authors: Fabian Abel, Qi Gao, Geert-Jan Houben.

**JCDL '13**
Elaheh Momeni, Ke Tao, Bernhard Haslhofer, Geert-Jan Houben. Identification of Useful User Comments in Social Media. Accepted at: *Joint Conference on Digital Libraries (JCDL)*, Indianapolis, Indiana, USA, July 2013

**ICWE '12**
Ke Tao, Fabian Abel, Claudia Hauff, Geert-Jan Houben. Twinder: A Search Engine for Twitter Streams. In: Proceedings of *International Conference on Web Engineering (ICWE)*, Berlin, Germany, July 2012

**ICWE '12**
Fabian Abel, Claudia Hauff, Geert-Jan Houben, Ke Tao. Leveraging User Modeling on the Social Web with Linked Data. In: Proceedings of *International Conference on Web Engineering (ICWE)*, Berlin, Germany, July 2012

**HyperText '12**
Fabian Abel, Claudia Hauff, Geert-Jan Houben, Richard Stronkman, Ke Tao. Semantics + Filtering + Search = Twitcident: Exploring Information In Social Web Streams. In: Proceedings of *ACM Conference on Hypertext and Social Media (HyperText)*, Milwaukee, Wisconsin, USA, June 2012

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| WWW '12 | Fabian Abel, Claudia Hauff, Geert-Jan Houben, Richard Stronkman, Ke Tao. Twitcident: Fighting Fire with Information from Social Web Streams. In: Proceedings of *International Conference on World Wide Web (WWW)*, Lyon, France, April 2012 |
| MSM at WWW '12 | Ke Tao, Fabian Abel, Claudia Hauff, Geert-Jan Houben. What makes a tweet relevant for a topic?. In: Proceedings of *2nd Workshop on Making Sense of Microposts (#MSM2012)*, co-located with WWW, Lyon, France, April 2012 **Hypios award for best 'innovation-related paper'** |
| TREC '11 | Ke Tao, Fabian Abel, Claudia Hauff. WISTUD at TREC 2011 Microblog Track: Exploiting Background Knowledge from DBpedia and News Articles for Search on Twitter. In: Proceedings of *The Twentieth Text REtrieval Conference (TREC 2011)*, Gaithersburg, MD., USA, November 2011 |
| WI '11 | Qi Gao, Fabian Abel, Geert-Jan Houben, Ke Tao. Interweaving Trend and User Modeling for Personalized News Recommendation. In: Proceedings of *IEEE/WIC/ACM International Conference on Web Intelligence (WI)*, Lyon, France, August 2011 |
| UMAP '11 | Fabian Abel, Qi Gao, Geert-Jan Houben, Ke Tao. Analyzing User Modeling on Twitter for Personalized News Recommendations. In: Proceedings of *International Conference on User Modeling, Adaptation and Personalization (UMAP)*, Girona, Spain, July 2011 **(best paper award)** |
| WebSci '11 | Fabian Abel, Qi Gao, Geert-Jan Houben, Ke Tao. Analyzing Temporal Dynamics in Twitter Profiles for Personalized Recommendations in the Social Web. In: Proceedings of *International Conference on Web Science (WebSci)*, Koblenz, Germany, June 2011 |
| ESWC '11 | Fabian Abel, Qi Gao, Geert-Jan Houben, Ke Tao. Semantic Enrichment of Twitter Posts for User Profile Construction. In: Proceedings of *8th Extended Semantic Web Conference (ESWC)*, Heraklion, Crete, Greece, May 2011 |
| UWeb at ESWC '11 | Ke Tao, Fabian Abel, Qi Gao, Geert-Jan Houben. TUMS: Twitter-based User Modeling Service. In: Proceedings of *International Workshop on User Profile Data on the Social Semantic Web (UWeb)*, co-located with ESWC, Heraklion, Crete, Greece, May 2011 |

## Awards

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| 2012 | Hypios award for best 'innovation-related paper' at 2nd Workshop on Making Sense of Microposts, co-located with International World Wide Web Conference (WWW). Paper: *What makes a tweet relevant for a topic?*. Co-authors: *F. Abel, C. Hauff, G.-J. Houben*. |
| 2011 | Best research paper award at International Conference on User Modeling, Adaptation and Personalization (UMAP). Paper: *Analyzing User Modeling on Twitter for Personalized News Recommendations*. Co-authors: *F. Abel, Q. Gao, and G.-J. Houben*. |
| 2004, 2006, 2007 | Annual outstanding student, National University of Defense Technology |
| 2005 | 3rd Prize in National Competition of Mathematical Modeling. Team partners: *M. Deng, X. Wang*. |

## Voluntary Services

February 2011 –
September 2012
**Staff**, *Association of Chinese Students and Scholars in the Netherlands*.
Organising the events, communications, technical support

October 2009 –
October 2010
**Planet-Lab site**, *National University of Defense Technology*.
Technical contact, server maintenance

April 2007 –
January 2008
**Microsoft Technology Club**, *National University of Defense Technology*.
Leader of Engineering Practice

October 2006 –
June 2007
**Innovative Technique and Service Group**, *School of Computer Science, National University of Defense Technology*.
Web Server Maintenance and Web application development

## Personal Interests

Photography

Sports: Cycling, Swimming, Table Tennis, Badminton

Traveling: Cycling Tour, Hiking

Music: Acoustic Guitar