

Jingwei Zhang

Resumé

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Education

- Current **Bachelor of Electronic Engineering**, *Tsinghua University*.
2009 **High school**, *No.2 High School of East China Normal University*.

Experience

Research experience

- year–year **Research intern**, *Department of Computer Science*, Supervised by Prof. Jie TANG.
Data mining, social network analysis
○ Achievement 1;
○ Achievement 2
- 2011– **Student Research Training Project**, *Department of Computer Science*, Supervised by Prof. Baolin LIU.
Current *Visual-auditory Crossmodal Effect of Elevation Recognition*
○ Designed an experiment with event-related potential and behavior tests using head-related transfer function;
○ Will complete the experiment with more than 10 subjects.
- Sept. **Research intern**, *Center for Quantum Information of THU*, supervised by Prof. Luming DUAN.
2011–Dec. *Quantum Computation with Trapped Ions*
2011 ○ Studied quantum information/computation theories and existing methods, did field research;
○ Rank 3/30 in a related examination.
- Feb. 2010 **Course Research**.
Test and Evaluation of Background Extraction Algorithms
○ Realized dominant background extraction algorithms with the C++ programming language;
○ Tested speed and robustness, analyze applicabilities of each algorithms in varied conditions.
- Sept. **Course Research**, Group Leader, Supervised by Prof. Xiqin WANG.
2009–Oct. *An Intersection Evaluation Method Base on Pedestrians*
2009 ○ Designed an intersection evaluation method, innovatively introduced dynamic model simulation;
○ Tested at five intersections in Beijing, proved high confidence of the method by comparing with survey results.

Project experience

- Dec 2011 , *Terrain Classification Based on Locally Stationary Wavelet Model*.
○ Realized locally stationary wavelet model in matlab.
○ Designed terrain classification algorithm, tested in Brodatz textures and Google Earth database with robust results.
- Dec 2011 , *Music transcription method based on poisson point process model and beat detection*.
○ Improved point process MCMC method for music transcription with beat detection based on constant Q transform.
○ Reduced the computational complexity while accuracy rate almost unchanged.
- May 2010 , *Vocabulary-building software*.
○ Application using MFC and XML, integrated Barron's word list, GRE/TOEFL word list and Merriam-Webster Dictionary.
○ Enhance vocabulary-building speed with laws of memory.

Honors and awards

Contest Awards

- 2010 **Frist Prize**, *Beijing Physics Contest for college students*.
- 2010 **Into the final**, *Tsinghua Electronic Design Contest*, team leader.
- 2010 **Rank 2nd**, *Baidu Cup Tsinghua Duishi AI Contest*, team leader.
- 2010 **Rank 3rd**, *Tsinghua QuanHuang AI Contest*.
- 2009 **Frist Prize**, *National Physics Contest for high school students*.
Rank 4th all over China

Scholarships

- 2010 **Samsung Scholarship**, *Tsinghua University*.
CNY 3,000
- 2009 **School of Informaion Science and Technology Scholarship**, *Tsinghua University*.
CNY 20,000

Extracurricular activities

- Volunteer KDD2012, Beijing
- Volunteer 28th Challenge Cup
- Member Tsinghua Ski Association
- Member Tsinghua Science and Technology Association

Computer skills

- Tools C/C++, Java, Matlab, verilog, Assembly
- Environment Windows, Linux
- Skills Hadoop

Other interests

- Evolutionary Psychology
- Behavioral Economics
- Photography
- Alpine skiing