**Tao Liu**

Personal Information

Date of Birth: 01/21/1990 Gender: Female

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Research Interests

* Artificial Intelligence
* Intelligent Tutoring System and Educational Games

Education Background

* **Aug.2012-present: North Carolina State University**

**Ph.D Candidate in Computer Science**

* **Sep.2008-June.2012:University of Science and Technology of China (USTC)**

**B.S. in Department of Electronic Engineering and Information Science**

**Overall GPA:** 3.67/4.3 **Overall Weighted Grade**：87.51/100

Research Experience

* **Apr.2013 Game-based learning: Total Recursion XI**

Advisor: Prof. James Lester

* This game is built using Unity 3D. It will be used to help students gain a deeper, conceptual understanding of recursion, and to excite them about the concept. Recursion is a notoriously elusive concept for beginning programmers to grasp. Our game will provide learners with visual representations of recursion (as opposed to coding problems), and foster mastery learning. Accordingly, the inspiration for and design of the game follow from the mastery learning and teachable agent literature.
* **Nov.2011-May.2012** **Member of Smart Campus Program**

**Sponsors: Microsoft Research Asia and USTC, Advisor: Prof. Xuejin Chen**

* I worked in a team project to build 3D Model of our campus and realize applications such as navigation, 3D wandering, and building indexing.
* **Jul.2011-Sep.2011**  **Dragon Star Program, National Natural Science Foundation of China**

**Advisor: Prof. Hui Xiong, Rutgers, the State University of New Jersey**

* I took the Data Mining course and research on classification, clustering, association analysis and anomaly detection with machine learning methods. I got A+ in the course test.
* I worked on a team project on dataset provided by France Orange Corporation in KDD Cup 2009 to train and evaluate three classifiers to predict customers’ future behavior. We got A+ on the project.
* **Jul.2010-Oct.2010 RoboGame2010, USTC**
* I was the leader of 5-student team (F++) for three months, and collaborated with my teammates to build a remote-controlled humanoid robot and an [automatic](app:ds:automatic) flat car robot with limited fund.
* I managed all the circuit designing and PCB welding of our robots, by self-study.

Honors & Awards

* 2008-2012 Scholarship for Outstanding Students, USTC
* 2010 Outstanding Volunteer of the Volunteer Association of USTC
* 2009 [Silver](app:ds:silver)n Award of Women's 1500m running of the Sports Meeting, USTC
* 2010 Sports Morality Award of Radio Direction Finding, 4th All-China Games

Standard Tests

* **GRE** Total : 1500 Verbal: 710/98%, Quantitative: 790/91%, Analytical Writing: 3.5/29%
* **TOEFL** Total: 98 Reading: 30, Listening: 24, Speaking: 20, Writing: 24

Extracurricular Activities

* **2012**  **Took part in the 2012 Yangzhou International Half Marathon**
* Half Marathon:21km; Result: 2:28
* **2011**  **Took part in the 20****11 Beijing International Marathon**
* Full Marathon:42.195km; Result: 5:34:36 ; Ranking:701 (Female)
* **2011** **Joined in the MSRA-USTC Summer Camp with students from different countries**
* Attended the 6th International Conference on Image and Graphics which was hold by USTC
* Worked on a team project on Kinect and Car Number Recognition with foreigner students
* **2008-2009** **Volunteer of the Special Education Center in Hefei**
* Worked in the library of the center to help the disabled children to borrow books and read books
* **2008**  **Member** **of the Volunteer Association of USTC and the Emergency Service Group**
* **2009 Summer Holiday Joined in the Social Practice Group of School of Information, USTC**
* Did survey in Huoshan county, Anhui Province and brought some [school](app:ds:school) [supplies](app:ds:supplies) to the local students
* **2010 Winter Holiday** **Joined in the SIFE project**
* Helped the AIDS children in Fuyang, Anhui Province, together with the famous NGO “love Fu Association”
* **2010 Home tutor of two high school students, mainly in Math, Physics and Chemistry**
* **2011 IEEE student member and Member of IEEE Student Branch in USTC**
* **2010-2011 Vice** **president of the Cycling Association of USTC**

Technical Skills

* **Programming** C/C++, C#, Matlab, Java, HTML
* **Others** Origin, Photoshop, Clementine, Dreamweaver, 3DMax, Unity 3D