

# Fan Wei

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## Education

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<b>Massachusetts Institute of Technology (MIT)</b> , Cambridge, MA	June 2012
Candidate for Bachelor of Science Degree;	
Courses include: Differential Equation with Theory; Abstract Algebra; Probability; Mathematical Analysis; Mathematics in Guessing; Electrical Engineering & Computer Science; Mechanics; Electricity & Magnetism; Macroeconomics; Microeconomics; Finance theory; Accounting; Game Theory; Archeology in Material Engineering;	
<b>High School Affiliated to Renmin University of China (RDFZ)</b> , Beijing, China	June 2008
Graduated 1 <sup>st</sup> in class of 800.	

## Research Experience

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| ▲ <b>MIT Global Sustainability for Sustainable Development System (GSSD)</b> , Cambridge, MA  | May 2009-Present  |
| Maintain and select materials to GSSD, an international data base for sustainable-related resources; Collaborate with the Administrative Center for China's Agenda 21 in Beijing to build GSSD-China. Research on the dynamics of cyber security; will work on searching mechanisms for GSSD English and Chinese. |                   |
| ▲ <b>Beijing University of Posts and Telecommunications, School of Automation</b> , Beijing, China  | Summer 2009       |
| In order for the holding power of mechanical hand to track computer instructions efficiently and accurately, designed and wrote feedback control algorithm; empirically determine the best constants in the algorithm.  |                   |
| ▲ <b>MIT Intelligent Transportation Lab</b> , Cambridge, MA   | Sep 2008-Dec 2008 |
| Performed research in project "Collaborative development of dynamic traffic simulation models for Beijing"  |                   |
| Managed parameter calibration and data application; used MATLAB to program and calculate the outcomes; developed model to analyze Beijing's traffic network and solve congestion problems   |                   |
| ▲ <b>Research on Algorithm for Car Navigation System in Beijing</b> , Beijing, China  | Summer 2008       |
| Leader in the research group to develop algorithm aimed at finding the best time-saving path between any two arbitrary locations in Beijing for the GPS Car Navigation System   |                   |

## Extracurricular Activities

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| ▲ <b>RDFZ Alumni Association</b> , Publication Planner, MA Alumni Coordinator, Cambridge, MA   | Nov 2008-Present  |
| Plan and edit publication on how to successfully apply for top universities abroad and survive in a new culture; negotiate with publishers; oversee sales and advertising; plan advertising; in charge of MA alumni and planning events  |                   |
| ▲ <b>MIT Society of Women Engineers</b> , Department Liaison Co-chair, Cambridge, MA   | Sep 2009-Present  |
| In charge of department related activities and information, including study breaks and course updates, collaboration between faculty and students.   |                   |
| ▲ <b>MIT Educational Studies Program</b> , Volunteer Teacher, Cambridge, MA  | Sep 2008-Dec 2008 |
| Created and taught a course combining Chinese painting, calligraphy, poetry, and Chinese culture; 2 hours / week.  |                   |
| ▲ <b>Sustainability @ MIT</b> , Alumni Chair, Cambridge, MA  | Sep 2008-Present  |
| Contact alumni and ask for sponsorship and donations, invite alumni to campus activities.  |                   |
| ▲ <b>Main Social Volunteer:</b>  |                   |
| <b>American Red Cross Team and Network of MIT</b> ; packed and distributed food for needy families   |                   |
| <b>Promoter and Research Initiator for Beijing 2008 Olympic Games</b> ; used survey and observations to study people's behavior and attitude the year prior to Olympic; advertised Games to public, cleaned street; removed illegal posters and advertisements from streets, bridges, and walls in preparation for the Olympic |                   |
| ▲ <b>Literature and Art Group Member</b> , Beijing, China  | 1996-2003         |
| Won 6 city level, national level, or international level prizes in traditional Chinese painting and calligraphy.   |                   |
| Published several articles including "the autumn in my memory", China Education Television,  |                   |
| Won prizes in writing including a Third Prize in National Creative Writing for Secondary School Students,  |                   |

## Honors & Awards

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| ▲ 2008 MIT Society of Women Engineers scholarship 2 <sup>nd</sup> place winner among all freshman  | Jan 2009    |
| ▲ One of 13 winners among 800 candidates for Mizuho Scholarship sponsored by Japanese Mizuho Corporate Bank, the first merit-based scholarship in China sponsored by foreign enterprise for high school students | Oct 2007    |
| ▲ The Outstanding Student of Beijing in the year of 2005.  |             |
| ▲ First Prize, 6 <sup>th</sup> National and International Girls Mathematical Olympiad Competition, Wuhan, China  | June 2007   |
| ▲ Second Prize, 22nd Chinese Mathematical Olympiad (CMO)   | Jan 2007    |
| ▲ First Prizes, Beijing High School Applied Mathematics Competition  | 2006 & 2007 |
| ▲ American Mathematics Competitions Award  | Aug 2007    |
| ▲ Second Prize, Beijing Chemistry Contest for High School Students   | May 2006    |
| ▲ Second Prize, 19 <sup>th</sup> Beijing Physics Mechanics Final Contest for 10 <sup>th</sup> Grade Students   | May 2006    |