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Yunxin Jiao

Education

- Massachusetts Institute of Technology 2012
- *Major: Chemical Engineering (10-B), Biology (7)*
 - *GPA: N/A*

Research Experience

- 2008-09 **Undergraduate Research (UROP)**
Shriners Hospital for Children, Biju Parekkadan, PhD
maintain cell cultures, histology and staining, performed cannulation surgery in rats, ELISA, optimization of stem-cell based device to treat acute renal failure pre-clinical trial
- 2008 **United States Biology Olympiad (USABO)**
George Mason University
Learned range of lab skills, invertebrate dissection, use of spectrometer, column chromatography, determination tetrad analysis, basic techniques in microbiology; worked with *C. elegans*, *S. cerevisiae*, *D. rerio*
- 2007-08 **Research Initiative for Intel Science Talent Search**
University of Miami, Shuliang Jiao, PhD
Testing the effectiveness a biocompatible contrast agent in OCT for study of dry eye and contact lens wear.
- 2007-08 **National Engineering Design Challenge (NEDC)**
Led student team in designing an assistive device for people with disabilities in the workplace. A simple device to alert the user when a vacuum cord is in danger of being over-stretched to help those with cognitive challenges.
- 2006 **Howard Hughes Medical Institute Scholars Program**
University of Miami, Damien D. Pierce, PhD
Investigating the role of TNF- α in secondary spinal cord injury.

Honors and Awards

- United States Biology Olympiad 2008 Silver Medalist
- Intel Science Talent Search Semifinalist
- National Engineering Design Challenge Semifinalist (team captain, top 20 in US)
- 2007 National Science Bowl: 1st place Florida, 4th place US
- AIME Qualifier 2007, 2008

Community service/leadership experience

- Society of Women Engineers Event Outreach Co-Chair
 - Organized Engineering Week at Boston Children's Museum
 - Planning Beaverdash, a one-day engineering challenge for high school students
- MIT Undergraduate Research Journal Executive Committee
- Biomatrix Planning Committee
- Founder of Painting Smiles (2006-present)
 - Independently organized Holiday Arts and Crafts Festival; proceeds donated to Kristi House, a shelter for sexually abused children
 - Over 1000 square feet of murals painted for community
 - 2007 GameStop Community Service Grant Winner
- String Orchestra and Quartet (2004-present)
 - Member of MIT Symphony Orchestra 2008, MIT Chamber Music Society 2009
 - Concert Mistress of high school string orchestra for two years
 - Founder of high school string quartet, performed at retirement homes and school functions