

Yingxia Wang

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EDUCATION

Massachusetts Institute of Technology (MIT), Cambridge, MA

2008-present

Bachelor of Science, Chemical Engineering, Class of 2012

GPA: 4.2/5.0

Relevant Coursework: Transport Processes, Fluid Mechanics, Thermodynamics, Biochemistry, Biology, Solid State Chemistry

TECHNICAL EXPERIENCE

Undergraduate Researcher, Robert Langer Lab, MIT

Sept. 2009-present

- Developed and optimized combinations of small-molecule chemotherapeutics, siRNA, and lipomers in vitro
- Evaluated the efficacy of metastases treatment in tumor-bearing mice
- Taught cell culture and assay techniques to undergraduate and graduate students

National Nanotechnology Infrastructure Network (NNIN) Summer Intern,

June 2010-Aug. 2010

Haynes Group, University of Minnesota-Twin Cities

- Fabricated microfluidic devices using standard lithography
- Tested the efficiency of devices to encapsulate single cells in monodisperse droplets for immune cell studies
- Presented project to an attendance of 100 at nationwide program convocation

Undergraduate Researcher, Juanes Group, MIT

June 2009-Aug. 2009

- Investigated viscous fingering in a Hele-Shaw cell for application in CO₂ sequestration

WORK & VOLUNTEER EXPERIENCE

Graphic Designer, Campus Activities Complex, MIT

Sept. 2009-present

Designed posters, newsletters, and advertisements for campus events

Spring Break Volunteer, Habitat for Humanity, Eustis, Florida

Mar. 2009

Collaborated with other MIT students to help construct three houses

Waitress, Crestwood Country Club, Rehoboth, MA

Sept. 2007-Aug. 2008

SKILLS

Biology Laboratory: cell culture, assays, BL2 lab safety

Chemistry Laboratory: chromatography, fractional distillation, kinetics, mass spectrometry

Animal Work (Mice): basic handling, IP and IV injections, live animal imaging

Nanofabrication: photolithography, PDMS-based fabrication

Computer: Adobe Photoshop, Illustrator, InDesign; MATLAB; Microsoft Office

Language: Mandarin Chinese

AWARDS & AFFILIATIONS

MIT-Merck Undergraduate Research Poster Session, 2nd Place Winner

2010

Member of Society of Women Engineers (SWE), National & MIT Chapter

2010-present

Member of American Institute of Chemical Engineers (AIChE)

2010-present

MIT Emerson Music Scholar (flute)

2008-2009

President's Education Award for Outstanding Academic Excellence

2008

Barrington High School Yearbook Staff

2006-2008

Co-editor in chief

2007-2008

Rhode Island Philharmonic Youth Orchestra and Wind Ensembles

2004-2008