

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: 4.4/5.0

Relevant Coursework: Separation Processes, Reactors & Kinetics, Transport Processes, Fluid Mechanics, Thermodynamics, Biochemistry, Biology

TECHNICAL EXPERIENCE

Cell Culture Development Intern, Biogen Idec, Cambridge, MA

May-Aug 2011

- Optimized culture medium in shake flasks for the company's platform process
- Stabilized a component in medium using chemical techniques

Undergraduate Researcher, Robert Langer Lab, MIT

Sept 2009-present

- Optimized a small-molecule chemotherapeutic drug delivery system in vitro
- Evaluated the efficacy of delivery system in tumor-bearing mice
- Publication pending in *Journal of Controlled Release*
- Taught cell culture and assay techniques to undergraduate and graduate students

Researcher, Hamel Group, Chemical Engineering Project Laboratory, MIT

Feb-May 2011

- Collected essential data on oxygen mass transfer in a novel rectangular single-use bioreactor

National Nanotechnology Infrastructure Network (NNIN) Intern, Haynes Group, University of Minnesota-Twin Cities

June-Aug 2010

- 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-Aug 2009

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

WORK EXPERIENCE

Associate, International Learning Enterprises

Feb 2011-present

Tutored English to Chinese students through an integrated online learning platform

Graphic Designer, Campus Activities Complex, MIT

Sept 2009-present

Designed posters, newsletters, and advertisements for campus events

SKILLS

Biological: bacterial & mammalian (adherent, suspension) cell culture, assays, bioreactors, PCR

Chemical: 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

ACHIEVEMENTS & AFFILIATIONS

Associate Advisor for Freshmen with Prof. Hadley Sikes

2011-12

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

2010

Member of Society of Women Engineers (SWE)

2010-present

Member of American Institute of Chemical Engineers (AIChE)

2010-present

Habitat for Humanity Spring Break Volunteer

2009

MIT Emerson Music Scholar (flute)

2008-09