MARY XUE WANG

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500 Memorial Drive Cambridge, MA 02139 520,285,6541

EDUCATION

Massachusetts Institute of Technology

Candidate for Bachelors of Science and Engineering June 2012

Cambridge, MA

Catalina Foothills High School

Graduated May 2008 GPA: 3.99 un-weighted Tucson, AZ

WORK EXPERIENCE

Materials Science and Engineering UROP

Cambridge, MA

MIT, Dr. Caroline A. Ross, Toyota Professor of Materials Science and Engineering

Jan 09-present

Investigation of magnetic properties of tungsten-nickel alloy nanocrystalline thin films to find correlations between microstructure, composition, and magnetism for applications in data storage.

University of Arizona Department of Chemistry Intern

Tucson, AZ

University of Arizona, Dr. Zhiping Zheng, Associate Professor, Inorganic Chemistry

Sept 06-Aug 08

Synthesized and characterized novel organometallic rhenium-selenium cluster compounds in an effort to investigate the formation of novel cluster arrays through photocyclodimerization. Work won 2nd place team at 2008 Intel International Science and Engineering Fair.

KEYS Summer Intern

Tucson, AZ

University of Arizona, Dr. Emmanuelle Meuillet, Assistant Professor, Cancer Center

May-July 08

Investigated effectiveness of novel Akt-inhibiting anti-cancer drugs in inducing apoptosis through selective binding to the PH domain of Akt in HaCat and HaCat II-4 cell lines.

High School Summer Science Research Program (HSSSRP) Intern

Waco, TX

Baylor University, Dr. Kevin Pinney, Professor, Organic Chemistry and Biochemistry

May-July 07

Investigated effectiveness of novel tubulin-polymerization inhibiting vascular disrupting agents as anti-cancer drugs by characterizing binding properties through isothermal titration calorimetry.

LEADERSHIP

Undergraduate Association Committee on Sustainability

Cambridge, MA

MIT

Sept 08- present

Initiate and coordinate greening activities and programs on campus with MIT administration and outside organizations. Organized IAP class on environmentally friendly lighting design and policy.

Treasurer, Sustainability@MIT

Cambridge, MA

MIT

Sept 08- present

Keep track of club expenditures, apply for grants for event funding.

Team Captain, Catalina Foothills Science Olympiad

Tucson, AZ

Catalina Foothills High School

Aug 07-May 08

Formed teams and assigned events, organized and directed meetings and study sessions, coordinated and planned state trip to Phoenix, AZ and nationals trip to Washington DC. Maintained communication with club members and fellow officers, worked closely with school authorities to authorize and fund trips.

President and Officer, SMILE Community Service Club

Tucson, AZ

Catalina Foothills High School

Aug 06-May 08

Worked closely with other officers and various organizations such as the Southern Arizona Aids Foundation to organize opportunities for members to volunteer at various community service events, directed monthly meetings.

SKILLS

- English, Mandarin Chinese, Spanish, introductory French
- Trained and experienced in biological and chemical lab procedures, experienced with analytical techniques: transmission electron microscopy, isothermal titration calorimetry, absorbance assays, mass spectroscopy, and x-ray crystallography, vibrating magnetometer spectroscopy, trained on and have obtained driver's license for NMR.