

Rebecca McGinley

4652 Idaho St.
San Diego, CA 92116

EDUCATION

B.S. Chemical Engineering (April 2012)
University of Pittsburgh

Minors: Chemistry, Physics, Polymer Engineering
Certificate: Nuclear Engineering

RELEVANT EXPERIENCE

Research Associate – Illumina, Inc., Chemistry Development and Systems Integration September 2013 –Present

- Participated in feasibility and development of upcoming technology including chemistry optimization, hardware testing and development, and technical research.

Teaching Assistant – Prof. Metzger, Introduction to Nuclear Engineering August 2010 – December 2011

- Aided professors in course planning by providing description of students' understanding of materials, based on grading.
- Ensured students had the ability to develop a greater depth of understanding by providing additional educational support for specific concepts.

Research Associate – Prof. Li, Chemical Engineering Laboratory April 2011 – August 2011

- Primary researcher and laboratory worker on determination of CVD grapheme surface energy, including contact angle measurements with various solvents.
- Researched models of surface energy and created modeling equations applied to the data.
- Performed data analysis on results of grapheme experiment. Report pending publication.

OTHER EXPERIENCE

Student Library Assistant – Judith Brink, Bevier Engineering Library April 2011 – August 2012

- Helped patrons in research with a variety of databases for many fields including: mathematics, physics, and engineering disciplines.

SKILLS/QUALIFICATIONS

Computer Skills

- Coding experience with Java, C, C++, Python, VBA, UNIX, HTML and TeX
- Software experience with Matlab, SIMULINK, R, Aspen, and MS Office Suite
- Excellent computer skills, comfortable with Windows and Mac OS

Other

- Strong technical and research writing skills and experience
- Experience with a variety of laboratory equipment, including Dynamometer, GC, MS, NMR, IR, GPC, DSC, UV/VIS and others
- Goal oriented, self-motivated and enthusiastic about progress

PUBLICATIONS

Li Z.; Wang Y.; Kozbial A.; Shenoy G.; Zhou F.; McGinley R.; Ireland P.; Morganstein B.; Kunkel A.; Surwade S. P.; Li L. and Liu H. "Effect of airborne contaminants on the wettability of supported graphene and graphite", Nature Materials.2013, 12, 925-931

Kozbial A.; Li Z.; Conway C.; McGinley R.; Dhingra S.; Vahdat V.; Zhou F.; D'Urso B.; Liu H. and Li L. "Study on the Surface Energy of Graphene by Contact Angle Measurements", Langmuir. 2014, 30 (28), pp 8598-8606