

Christina G. Chen

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EDUCATION

Williams College

June 2016

Bachelor of Arts in Chemistry with Concentration in Biochemistry and Molecular Biology

GPA (Chemistry/Overall): 3.66/ 3.65

RESEARCH EXPERIENCE

Boston Children's Hospital Summer Research Intern (Stem Cell Program)

Summer 2015

- Worked in Dr. Richard Gregory's lab at the Karp Institute under the guidance of Dr. Peng Du
- Research project focused on the regulation of pro-miRNA from miRNA17-92 cluster in human cancer cells (ie. A549, H1299). Goals were to determine the role of ISY1 and CPSF3 in tumorigenesis, perform spliceosome drug testing, and determine the mechanism for pro-miRNA regulation.
- Techniques performed include northern blot, western blot, PCR, bacterial transformation, gel electrophoresis, RT-qPCR, plasmid purification, luciferase assays, and tissue culture.

Williams College Chemistry Research Assistant

Winter 2014

- Performed polymer research under the guidance of Professor Sarah Goh.
- Research focused on synthesizing self-assembling iso-leucine/MMA diblock copolymers, the ultimate goal being self-assembling micelles that could function in protein and small molecule delivery.
- Techniques performed include polymer synthesis, thin layer and column chromatography, reversible addition-fragmentation chain-transfer polymerization (RAFT), atom-transfer radical-polymerization (ATRP), NMR, FTIR, and mass spectroscopy.

Williams College Biochemistry Research Assistant

Winter 2013

- Worked on research focused on the SOS system in *Bacillus subtilis* under the guidance of Professor Charles Lovett.
- Screened a chemical library for compounds that prevent LexA cleavage, such as RecA inhibitors. Techniques performed include making polyacrylamide gels and SDS-PAGE.

National Institutes of Health (NCI) Summer Intern

Summer 2011

- Volunteered in immunology lab headed by Dr. Remy Bosselut, aiding Dr. Andrea Carpenter and Dr. Yumei Xiong in their research, which focused mainly on T-cell (CD4/CD8) function and development
- Techniques performed include basic mouse work (dissection, obtaining cells from thymus and spleen), cell staining/counting, PCR, bacterial transformation, Maxi/Midi plasmid prep, gel electrophoresis, and western blot.

WORK / TEACHING EXPERIENCE

- **Research Project Coordinator** (Wyss Institute at Harvard University) July 2016-Present
- **Organic Chemistry Peer Tutor** (Williams College) Fall 2014-Present
- **North Adams Public Schools (NAPS) Science Teaching Fellow** (Williams College) Fall 2013-Present
- **Chemistry Ford Lab Teaching Assistant** (Williams College) Fall 2014
- **Summer Student Medical Intern** (San Francisco Free Clinic) Summer 2014
- **Assistant General Manager** (C2 Education Bethesda Center) Summer 2013
- **Math, Science, and English Tutor** (C2 Education Bethesda Center) Summer 2013

VOLUNTEERING EXPERIENCE

Williams College Boston Break-Out Trip

Spring 2015

- Organized and led service trip to the Dorchester ABCD Neighborhood Center to teach elementary and middle school students science.

Sweet Brook Nursing Home Volunteers

Fall 2014-Present

- Visit with residents every Sunday at local nursing home. Volunteers are paired up and spend time with a senior resident either chatting or playing games.