

Margaret L. Lugin
Curriculum vitae

CONTACT

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EDUCATION

University of California, Irvine
Doctoral Student, Chemical Engineering
Advisor: Dr. Young Jik Kwon
Irvine, CA
Prospective: June 2019

Dissertation: Ovarian Cancer Therapy via Oncolytic Adenoviruses with Low Immunogenicity Achieved through Chemical and Genetic Modification

University of California, Irvine
Master's of Science, Chemical Engineering
Advisor: Dr. Young Jik Kwon
Irvine, CA
June 2016

University of Michigan
B.S.E. in Chemical Engineering, Minor in French
Graduated Cum Laude
Advisor: Dr. Omalola Eniola
Ann Arbor, MI
Graduated: May 2014

Thesis: Testing and imaging nanoparticle effect on innate immune response

RESEARCH EXPERIENCE

University of California, Irvine
Graduate Student Researcher
Develop oncolytic viruses for cancer therapy
Develop vectors for gene delivery
Design experiments to test efficacy of delivery
Teach undergraduate students and new members
Irvine, CA
June 2014-present

Valicor Separations Technologies
Intern – Research Assistant
Ran experiments on ethanol samples
Analyzed data using chromatography and spectroscopy
Dexter, MI
May 2013-August 2013

Eniola Laboratory, University of Michigan, College of Engineering
Biomedical Laboratory Assistant
Studied cell adhesion and drug delivery
Used fluorescent imaging and flowcytometry techniques
Ann Arbor, MI
January 2012-May 2013

AWARDS

National Institute of Health, Center for Virus Research Trainee, University of California, Irvine, awarded August 2016

National Science Foundation, Honorable mention, University of California, Irvine, awarded March 2016

Graduate Opportunities Fellowship, University of California, Irvine, awarded 2014

Star Chapter Award, Alpha Chi Sigma, University of Michigan, awarded 2013

College of Engineering, Dean's List, University of California, Irvine, awarded Fall 2011, Winter 2012, Winter 2013

Society of Women Engineers, Most valuable sophomore member, University of Michigan, awarded 2011-2012 school year

University Honors, University of Michigan, awarded Fall 2011, Winter 2013

PRESENTATIONS

Korea University invited presentation, "Genetically engineering macrophage cells using a polymeric acid-degradable nanoparticle for pro-drug therapeutics." Seoul, South Korea, March 28, 2016.

Margaret Lugin, Jonah Jocson, Alon Gorodetsky, "DNA Nanowires" Competitive Edge Symposium, University of California Irvine, Irvine, CA, August 15, 2014.

POSTER PRESENTATIONS

Margaret Lugin, Scott Rieman, Jeremy Vine, Michael Yonnick, Donald Ray "Recombinant Insulin Production from *Pichia pastoris*." Senior Capstone Exposition, University of Michigan, Ann Arbor MI, April 2014.

TEACHING EXPERIENCE

University of California, Irvine Irvine, CA
Teaching Assistant – PhrmSci 90 – Speaking Science Winter 2016, Summer 2016
Critique presentations given during class
Grade exams
Aid students with bettering presentation techniques

University of California, Irvine Irvine, CA
Teaching Assistant – CBEMS 45C - Thermodynamics Spring 2015, Spring 2016
Lead students in discussions
Prepare problems for discussion
Prepare solutions for homework assignments
Grade homework, quizzes, and finals

University of California, Irvine Irvine, CA
Teaching Assistant – PhrmSci 174L – Drug Delivery Techniques Fall 2015
Lead students in discussions
Prepare problems for discussion
Prepare solutions for homework assignments
Grade homework, quizzes, and finals

University of Michigan, College of Engineering
Proctor & Grader- Chemical Engineering Reactions
Lead students on in class problems
Graded homework and in class assignments

Ann Arbor, MI
January 2014-May 2014

University of Michigan, College of Engineering
Tutor – Chemical Engineering Mass and Energy Balances
Help students through homework sets for the course
Prepare reviews for exam preparation

Ann Arbor, MI
Fall 2012 & Fall 2013

OTHER EXPERIENCE

University of Michigan, College of Engineering
Orientation Leader/ Peer Advisor

Ann Arbor, MI
Summer 2012-Summer 2013

Welcomed new students to the college of engineering
Gave advice on college life, courses, and student groups

ACTIVITIES

Vice President of Chemical Engineering, Chemical Engineering and Materials Science Graduate Student Association, University of California, 2016-present
Duties: Plan events for current students to promote inter-departmental bonding and plan recruitment events to foster a welcoming environment.

DECADE College of Engineering Student – Faculty Committee, University of California, Irvine, 2016-present.

Duties: Foster conversations about improving inclusiveness within the College of Engineering for a diverse range of students, address issues current students are facing in the College of Engineering.

Society of Women Engineers, University of Michigan and University of California Irvine, Member: Fall 2010 – present

Attend meetings and strive for new generations of young women to be inspired to pursue engineering through outreach events. Also to promote young women pursuing engineering in college to learn more about the industry and introduce them to industry and graduate school contacts.

Competitive Edge Mentor, UC Irvine: Summer 2016

SURF Program, mentor, UC Irvine: Summer 2015

Cancer Center high school mentorship program, Mentor, UC Irvine: Summer 2015

DECADE, member, UC Irvine: June 2014-present

Alpha Chi Sigma, professional chemistry fraternity, President, University of Michigan:
Dec 2012 – Dec 2013

Alpha Chi Sigma, professional chemistry fraternity, Professional Chair, University of Michigan Professional Chair: Dec 2011- Dec 2012

Dance Marathon, Fundraiser and Participant, University of Michigan Fall 2010 – Winter 2012

Society of Women Engineers, Region H Subcommittee, University of Michigan: Winter 2011

College of Engineering Mentorship program, cohort leader, University of Michigan: 2011-2013

LANGUAGE

Proficient in French