

# Gabrielle Anne LAGUISMA

gabriellelaguisma@gmail.com  
gabriellelaguisma.com

## EDUCATION

- University of California, Berkeley**, Berkeley, CA May 2016  
*Master of Engineering*, Nuclear Engineering  
Concentration in Nuclear Waste & Materials Management
- University of San Francisco**, San Francisco, CA May 2015  
*Bachelor of Science*, Physics  
*Bachelor of Science*, Chemistry  
Minor in Mathematics

## RESEARCH EXPERIENCE

### Graduate Research

- University of California, Berkeley*  
Advisors: Dr. Joonhong Ahn & Dr. Massimiliano Fratoni  
“Centralized Interim Storage for Used Nuclear Fuel” Sept 2015 - May 2016

### Undergraduate Research

- University of San Francisco*  
Advisor: Dr. Giovanni Meloni  
“Boron-Doped Lithium Structures” Sept 2014 - May 2015  
“Room Temperature Cl-Initiated Oxidation of Furfural” Aug 2013 - April 2014  
“Dissociative Dynamics of Furfural by iPEPICO” June 2013 - Mar 2014

- Advanced Light Source**, 9.0.2 Beamline Scientist User 2011 - 2014  
Lawrence Berkeley National Laboratory, Berkeley, CA

- Swiss Light Source**, VUV Beamline Scientist User Jun - July 2013  
Paul Scherrer Institut, Villigen, Switzerland

## AWARDS & HONORS

- Finalist*, Big Ideas@Berkeley Competition, UCB, (2015)  
*Master of Engineering Opportunity Grant*, College of Engineering, UCB, (2015)  
*Innovations and Entrepreneurship Award in Chemistry*, NovaBay Pharmaceuticals, (2014)  
*USF Physical Chemistry Award*, Department of Chemistry, USF, (2014)  
*Undergraduate Research Award, Scientific Poster*, University of San Francisco, (2014)  
*C. DeQuigne Chemistry Scholarship*, College of Arts & Sciences, USF, (2013)  
*CRC General Chemistry Award*, Department of Chemistry, USF, (2012)  
*Dean's List*, College of Arts & Sciences, USF  
*Dean's Merit Award*, University of San Francisco

## WORK EXPERIENCE

Jan - May 2015      Physics Teaching Assistant, Department of Physics & Astronomy, USF  
Aug 2013 - May 2015      Astronomy Teaching Assistant, Department of Physics & Astronomy, USF  
Nov 2011 - May 2015      Undergraduate Research Assistant, Department of Chemistry, USF

## SERVICE

2015 - 2016      Social Representative, University of California, Berkeley M.Eng & MTM 2016 Cohort  
2011 - 2015      Chapter President, University of San Francisco American Chemical Society  
2011 - 2015      Chapter Secretary, University of San Francisco National Society of Collegiate Scholars

## MEMBERSHIP & PARTICIPATION

2014 - Present      IIME, National Honorary Mathematics Society  
2015 - 2016      American Nuclear Society, Student Affiliate  
2011 - 2015      American Chemical Society, Student Affiliate  
2011 - 2015      National Society of Collegiate Scholars, Student Affiliate

## PROFESSIONAL MEETINGS & WORKSHOPS

American Nuclear Society Winter Meeting & Nuclear Technology Expo, Washington, D.C., Nov 8 - 12, 2015  
248<sup>th</sup> American Chemical Society National Meeting, San Francisco, CA, Aug 10 - 14, 2014  
26<sup>th</sup> Annual Northern California Undergraduate Research Symposium, San Francisco, CA, May 3, 2014  
Creative Activity & Research Day, San Francisco, CA, Apr 25, 2014  
247<sup>th</sup> American Chemical Society National Meeting, Dallas, TX, Mar 16 - 20, 2014  
44<sup>th</sup> Western Regional Meeting, Santa Clara, CA, Oct 3 - 6, 2013  
Women Changing the World Through Science & Innovation Symposium, San Francisco, CA, Sept 19, 2013  
25<sup>th</sup> Annual Northern California Undergraduate Research Symposium, Santa Clara, CA, May 4, 2013

## POSTER & PRESENTATION

“Cl-Initiated reactions of furfural”, 248<sup>th</sup> American Chemical Society National Meeting, Aug 13, 2014  
“Dissociative dynamics of furfural”, Oral Presentation, 26<sup>th</sup> Annual Northern California Undergraduate Research Symposium, May 3, 2014  
“Dissociative dynamics of furfural”, Creative Activity & Research Day, April 25, 2014  
“Dissociative dynamics of furfural”, 247<sup>th</sup> American Chemical Society National Meeting, Mar 17, 2014  
“Imaging photoelectron photoion coincidence (i-PEPICO) investigation of furfural”, 44<sup>th</sup> Western Regional Meeting, Oct 5, 2013  
“Biofuel furfural: Spectroscopic characterization of its photoionization behavior”, Women Changing the World through Science & Innovation Symposium, Sept 19, 2013

## **OTHER BACKGROUND & EXPERIENCE**

- Experienced in data acquisition at the Advanced Light Source & Swiss Light Source.
- Skilled in Matlab and Origin, experienced in IgorPro and Gaussian09 for research tasks, familiar with MiniPEPICO & i<sub>2</sub>PEPICO analysis program during course of research.
- Familiar with IR (ATR) spectroscopy, H NMR spectroscopy, and SpartanModel software during course of study.
- Fluent in English, four years of study in Spanish, some experience in French.