

**Education**


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Master of Science, Chemistry: University of Oregon; Eugene, OR	Anticipated 2018
Post Baccalaureate, Chemistry: Oregon State University; Corvallis, OR	2017
Bachelor of Science, Geology, Cum Laude: University of Alaska; Fairbanks, AK	2013

**Experience**


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Laboratory Assistant: Mass Spectrometry Center Oregon State University, Corvallis, OR	March 2017 – May 2017
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- Qualitatively analyzed samples within 5 ppm accuracy for requested analytes using a Waters Q-ToF Premier Mass Spectrometer
- Prepared samples for analysis by mass spectrometer including saponification of triglycerides for characterization of fatty acid study
- Managed laboratory solid and liquid waste streams in accordance with EHS guidelines
- Organized and databased 1000+ chemical supplies in the university-wide chemical inventory database

Laboratory Assistant: Dolgos Research Group Oregon State University, Corvallis, OR	December 2016 – March 2017
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*Synthesis of a novel lead-free potentially piezoelectric (x)AgNbO<sub>3</sub>-(1-x)BaZrO<sub>3</sub> material*

- Determined details of the phase diagram of the (x)AgNbO<sub>3</sub>-(1-x)BaZrO<sub>3</sub> crystal system by methodically altering the mole ratio of components of the synthesis
- Analyzed samples and interpreted data on Rigaku Benchtop MiniFlex X-ray Diffraction (XRD) instrument
- Utilized controlled atmospheric ovens, ball mixers, and pellet presses to perform solid state synthesis of suspected piezoelectric material

Chemist	June 2014 – April 2016
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McCampbell Analytical Inc., Pittsburg, CA

*Organics Department Analytical Chemist: Liquid Chromatography Mass Spectrometry (LC-MS/MS) and Ion Chromatography (IC) divisions*

- Completed daily, multiple EPA regulated and internally verified methods to quantitate concentrations of diverse families of analytes by LC-MS/MS and IC for clients
- Performed routine and major maintenance procedures on two Varian triple quadrupole LC-MS/MS and three Metrohm IC
- Maintained notes to such detail as to be legally defensible in EPA, USDA, and/or State Audits
- Created automated analysis programs and exported instrument data via Excel macro filters to Omega Laboratory Information System within client requested time
- Prepared analytical standards and solvents to create calibration tables and quality control standards
- Interpreted chromatograms and/or spectra including manual integration in accordance with official laboratory procedure, internal standard recovery evaluation, and surrogate recovery evaluation

*Organics Department Research and Development Chemist*

- Utilized LC-MS/MS, IC, GC-MS, and HPLC while creating methods and procedures for new analyte families and product forms by organizing, planning, and implementing interdepartmental projects
- Created methods and published internal SOPs verified with Quality Control Tests including: Method Detection Limit, Method Reporting Limit, Initial Demonstration of Capability, and Limit of Quantitation studies

*Third Unregulated Contaminant Monitoring Rule Study (UCMR3) Chemist*

- Determined potential drinking water contaminants by performing four UCMR3 methods at the highest level of EPA compliance
- Verified data accuracy as signatory to peer UCMR3 chemists

## POLY303

Research Experience for Undergraduates Intern: Earth Science Department      September 2011 – May 2013  
University of Alaska Museum, Fairbanks, AK

### *Quaternary Mammal Identification and Classification*

- Identified to Genus/species level and cataloged approximately 30,000 Quaternary mammalian fossils housed in the University of Alaska Museum, Earth Science Department collection for National Science Foundation funded REU project
- Utilized Arctos databasing software and photography to detail taxonomic, collection locality, condition data of thousands of fossil and geologic sample specimens

### *Preparation of a postcranial elmosaurid specimen*

- Executed mechanical and chemical fossil preparation techniques including pneumatic air scribing, detailed hammer/chisel work, and poly(vinyl acetate)/formic acid bath preparation of the holotypic *Nakonanectes bradti* specimen

Store Manager      August 2009 – December 2010  
Walnut Creek Meat Company, Alamo, CA

- Managed daily operations of up to twenty-five employees while writing the weekly employee schedule, interviewing/hiring new employees, and performing disciplinary action for misconduct
- Ensured cash registers were correctly stocked and counted
- Resolved any customer complaint pertaining to any aspect of the market

Journeyman Butcher      August 2008 – December 2010; June 2013 – June 2014  
United Food and Commercial Workers, Local 8 Union (UFCW8), Benicia, CA

- Earned Journeyman Butcher certification (2008) by completing a two-year apprenticeship as required by UFCW8
- Collaborated with team members to ensure every customer request was completed in an efficient, helpful, and courteous manner
- Processed both domestic and wild game in accordance with health and safety standards of Contra Costa County, Santa Clara County, California Fish and Game, and the USDA

## **Awards/Scholarships**

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Brina Kessel Medal for Excellence in Science      2013

- Annually awarded to a student in the University of Alaska, Fairbanks College of Natural Science and Mathematics (CNSM) recipient for academic merit, exceptional undergraduate research, and has been nominated by a faculty member of CNSM
- Award is given to one student out of 1100 and it is considered the highest undergraduate honor of the CNSM

Geology and Geophysics Merit Award      2013

- Awarded to two University of Alaska Geology and Geophysics students attending the university's Geology Field Camp, based on academic merit and nomination by a faculty member

Osher Reentry Scholarship      2011, 2012, 2013

- Annually awarded to thirteen baccalaureate seeking University of Alaska students who have demonstrated academic promise despite challenging circumstances

Lola Tily Memorial Scholarship      2011, 2012

- Annually awarded to University of Alaska students, based on academic merit