

Diana Liang

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Skills

Computer: R(dplyr, data.table, ggplot2, tidyr, randomForest, MASS, stringr), Python(numpy, scipy, matplotlib, Pytorch, pandas), Stata, SAS, SQL (<https://github.com/Diana-Liang/UMich-Stats>)

Management and Communication: Project planning and implementation, direct supervision of 1-3 employees, door-to-door campaigning, customer service

Experience

December 2019 - Present

STATCOM: Genevieve Health Survey Project - *Volunteer*

- Write an easily implementable function to summarize surveys for quick summaries
- Analyze data for insights of interest in data summary results
- Create a visual as final summary of findings for general public

December 2016 - July 2019

Clarks - *Key Holder/Assistant Manager*

- Manage 1-4 employees, store transfers and customer orders
- Recommend products tailored to customer and handle any customer issues
- Customize company-provided store changes or documents

October 2013 - April 2016

Northwestern Archery Club - *Co-Founder and Social Chair*

- Keep weekly records of attendance and meeting notes
- Survey members; schedule reservations; and implement dinners, tournaments, and other social events
- Recruit at activities fairs and informational sessions

January 2016 - March 2016

Advanced Lab - *Student*

- Synthesize and purify organic/inorganic compounds using microscale multistep reactions
- Analyze known/unknown compounds by NMR/SS-NMR/IR spectroscopy, mass spectroscopy, calorimetry, chromatography, FTIR/Raman spectroscopy
- Design and perform experiment on microwave synthesis, calcification, and PXRD & UV-Vis analysis of corundums

October 2015 - June 2016

Environmental Lab - *Student*

- Use pH/voltmeter to determine potential and pH of unknown water samples

- Measure calcium and magnesium concentrations of differing water samples via flame atomic absorption (FAAS) using calibration curve of known concentrations to estimate hardness of water samples
- Determine potassium and ammonia concentrations of water samples via UV-Vis spectroscopy to determine waste contamination of sample sources
- Determine concentration of 5 different anions via ion chromatography (IC) to provide insight on source of water samples and level of human impact

Education

September 2019 - Present

University of Michigan, Ann Arbor MI - *Master's*

Applied Statistics: Computational Methods and Tools in Statistics; Data Science and Analytics using Python; Regression; Multivariate Analysis; Statistical Inference

October 2012 - June 2016

Northwestern University, Evanston IL - *Bachelor's of Arts* | *GPA: 3.34*

Chemistry with Environmental Concentration: Environmental Chemistry; Inorganic Chemistry; Analytical Chemistry; Public and Environmental Health; Plant Biology; Food, Politics and Society