

# Omar A. Chaarawi

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## EDUCATION

BS, Chemistry, with Honors; Program GPA 3.6/4.0

Ithaca College, Ithaca, NY, 2013–2017

Continuing Education

University of Colorado, Boulder, CO 2019-present

## RELEVANT EXPERIENCE

Head Research Assistant, Professor Mike P. Haaf (presented research at a conference and completed a thesis)

Ithaca College, Ithaca NY, January 2016 – June 2017 (1yr, 8 mos)

- Used computational chemistry methods to characterize reactions of novel organic compounds
- Programmed visual aids to demonstrate the functionality of our novel chemicals

Research Assistant, Professor Jamie P. Ellis (presented research at a regional conference)

Ithaca College, Ithaca, NY, January 2015 – May 2016 (1 yr, 5 mos)

- Examined dynamics of plant proteins through analysis of nuclear magnetic resonance spectroscopy data
- Investigated novel protein constructs through analysis of purification data

Research Assistant, Professor Adam Steeves (presented research at a national conference)

Massachusetts Institute of Technology, Cambridge, MA and Ithaca College, January 2015 – August 2015 (8 mos)

- Used python to build molecular systems and perform calculations on a GPU accelerated cluster
- Developed programs to streamline quantum calculations and organize data sets
- Used quantitative analysis techniques to evaluate the efficacy of computational research methods

## SKILLS AND RELEVANT COURSEWORK

Data Structures: CU Boulder

Basic C and C++

Data Analysis

Technical Writing

Intro to Comp Sci: Harvard

Python

HTML and CSS

Unix command line

## SCIENTIFIC COMMUNICATIONS

- American Chemical Society National Meeting and Exposition, San Francisco, CA (2017)
- National Conference on Undergraduate Research, Asheville, NC (2016)
- American Chemical Society National Meeting and Exposition, Boston, MA (2015)
- North East Regional Meeting of ACS, Ithaca, NY (2015)

## OTHER EXPERIENCE

Crew Chief and Commercial Driver

Gentle Giant Moving Company, Somerville, MA, May 2014-September 2018

Arborist Trainee

Berkelhammer Tree Experts, Boulder, CO, October 2018 - present

## AWARDS and HONORS

- Sigma Xi Honor Society
- American Chemical Society Summer Research Fellowship Award
- Shirley Hockett Scholarship for the Natural Sciences, Mathematics, and Computer Sciences

## ACTIVITIES

Volunteer and Leadership

- Resident Assistant, Ithaca College, Ithaca, NY Fall 2014 – Fall 2015
- Independently organized and led a trans-American charity bicycle ride from Boston to San Francisco June 2013