



Michael Henry Mulder III

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EDUCATION

University of Colorado Boulder

- GPA: 3.61/4.00
- BS in Chemical Engineering
- BA in Economics
 - Minor in Chemistry
- Passed Fundamentals of Engineering Exam (2016) (EIT)

Galvanize Inc.

- Data Science Immersive
- Graduating February 2018

LEADERSHIP

Omega Chi Epsilon Chemical Engineering Honors Society

Chapter President (2015–2016)

Engineering Leadership Program

Founder (2011)

Student Mentor (2013)

Kappa Sigma Fraternity

Property Manager (2012)

COMMUNITY

American Institute of Chemical Engineers

Member (2014–Present)

There With Care

Volunteer (2009–Present)

Corden Pharma Science Fair

Judge (2015–2016)

ACHEIVEMENTS

Deep Learning Course 1 with Andrew Ng

2017

Active Learning Award at the University of Colorado

2016

American Institute of Chemists Outstanding Student Award

2016

Introductory Sommelier – Court of Masters

Summer 2014

SKILLS

- **Data Science**
- **Economic Analysis**
- **Research and Development**
- **Manufacturing and Scale Up**
- **Machine Learning**
- **Regression Analysis**
- **Neural Nets**
- **Python, Matlab, VBA**

ONGOING EXPERIENCE and PROFESSIONAL RESEARCH

Next Frontier Biosciences, LLC

Formulation Scientist/Consultant Denver, CO (June 2016–December 2017)

- Designed multi-million dollar manufacturing models spanning 8 year forecasts
- Used Design of Experiment and statistical analysis software to optimize formulations for solubility, viscosity, stability and flavor
- Author on three pending patent applications and one publication
- Wrote standard operating procedures and batch records for over 20 products

Focused Labs Oils

Student Intern Denver, CO (January 2016–May 2016)

- Projected a \$300,000 increase in profits based on computational modeling in ASPEN, Minitab, Excel and Matlab
- Recommended 4 major process changes resulting in increased product throughput and automation
- Generated an economic analysis, cradle to grave resource examination and equipment costing in a thorough but concise report during a 4-month analytical internship

Phillips 66 Center for Innovation Lab at CU with Dr. J. Falconer

Undergraduate Researcher Boulder, CO (January 2015–May 2015)

- Innovated and analyzed future energy saving separation devices
- Evaluated molecular membranes in separations of nitrogen and hydrogen gas

E. Pira-Chiara Boschis Winery

Winery Assistant Piedmont, Italy (2013 Harvest)

- Experienced first-hand international marketing, sales and culture
- Assisted in vinifying the 2013 vintage of Barolo for one of the best wine producers in the world
- Adapted to a challenging, foreign environment quickly and developed long lasting connections

Mateo Restaurant and Radda Trattoria (Sister Restaurant)

Manager Boulder, CO (March 2011–March 2017)

- Cultivated excellent communication, teamwork and leadership skills while supporting myself financially through college
- Advanced through a series of promotions from busser to manager for a combined 6 years with one employer

University of Colorado at Denver and Health Science Center

Assistant Level 2 Denver, Colorado (2009–2011)

- Conducted experiments in replicate that produced results with greater than 95% accuracy
- Trained doctors and PhD candidates to improve their methods to achieve high accuracy and precision