

DOMINICK COLOSIMO



- Research chemist by training (6 years of experience)
- 3 years working on theory and computation; 3 years working in synthesis
- Consistently combines practical knowledge of chemistry and physics with enthusiasm for teaching and communication. Also loves data science.

CONTACT

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COMPUTER-RELATED SKILLS

Programming

Python	██████
Bash	██████
LaTeX	██████
HTML/CSS	██████
Fortran	██████
Arduino	██████

Operating Systems

Linux	██████
MacOS	██████
Windows	██████

Software & Tools

Visualization	██████
Data handling/analysis	██████
Pages	██████
OpenOffice	██████
AWS	██████

(AWS Glue, SageMaker, S3, RDS...)

OTHER RELATED SKILLS

Mathematical Skills

Statistics	██████
Calculus	██████
Linear Algebra	██████
Probability Theory	██████
Functional Analysis	██████
Numerical Methods	██████

Scientific Skills

Has general skill with experimental techniques such as ^1H -NMR, FTIR, and Raman spectroscopy. Also has competency with several computational chemistry suites.

ABOUT ME

Research chemist by training (6 years of experience; 3 years working in synthesis, 3 years working on theory and computation). Currently working as a scientist at mlQroTech Inc., where I combine my knowledge of chemistry and physics with my computational background to guide development of novel green technology solutions for the oil and gas industry. In this position, I have routinely relied upon my research and teaching background to effectively and enthusiastically communicate with my team.

⚙ WORK HISTORY

05/2021 - Present
01/2018 - 07/2019
mlQroTech Inc.
Tampa, FL

Lead Scientist

Brief Overview: Responsibilities focused on supporting innovation efforts and coordinating employees—from sales and engineering to executives—to facilitate development of products. Success depended highly on competent self-management.

- Worked on theory and computational modeling for mlQroAware systems
- Developed an in-house visualization/data analytics suite using Python
- Advocated to increase hardware capability for improved data quality response
- Conducted experiments to demonstrate proof-of-concept and validate sensor response
- Worked on rudimentary automation using Amazon Web Services (AWS)
- Created reference documents for sales team to simplify complex technical subjects

08/2015 - 05/2017
Pennsylvania State University
University Park, PA

Teaching Assistant

- Organized a 75-minute lecture/guided problem solving session (3x per week)
- Graded weekly homework and classwork assignments (120+ students per semester)
- Held office hours once a week in addition to personal sessions by appointment
- Led a 5-hour laboratory experiment once a week
- Taught common laboratory techniques and reasoning behind them

🎓 EDUCATION

05/2015 - 07/2017
Pennsylvania State University
University Park, PA

Computational Chemistry

08/2011 - 05/2015
University of South Carolina—Aiken
Aiken, SC

B.S. Chemistry

ACHIEVEMENTS, HONOURS AND AWARDS

- 🏆 Graduate Student Teaching Award (Penn State – 2017)
- 🏆 Chemistry Student of the Year (USC Aiken – 2015)
- 🏆 Magellan Scholarship research grant recipient (USC Aiken – 2014)

FAMILIAR PACKAGES

pandas NumPy SciPy scikit-learn LAPACK OpenBLAS
matplotlib Seaborn TensorFlow