

C A Marcus Carr, PhD

mcarr.cc | marcus.carr@gmail.com | 510.457.1707

Current software engineering intern and up-and-coming data scientist with substantial research experience in biochemistry (PhD), chemistry (MS and BA), and biotech applications. Fluent in Python, proficient in R.

Education

University of California, Berkeley.

PhD in Chemistry, Dec 2013.

Master of Science in Chemistry, May 2008.

Columbia University, New York City. Bachelor of Arts in Chemistry, May 2005.

MOOCs: Coursera Data Science Specialization (Johns Hopkins; **R**), Machine Learning (Andrew Ng, Stanford; **MATLAB**), Social Network Analysis (Lada Adamic, Michigan), Structure and Interpretation of Computer Programs (UC Berkeley CS61A; **Python**)

Work experience

Riffyn, Inc., Software Engineering Intern. February 2015–present.

Develop Riffyn structured vocabulary (ontology) for experimental design by scraping vendor sites and refactoring existing ontologies using **Python**.

Kiverdi, Inc., Scientist. January 2014–February 2015.

Genetically engineered bacteria, including proof-of-concept for a new chemical.

Led grant-writing efforts, resulting in a \$2 million project awarded by the Department of Energy.

Assigned work to two research associates.

Univ. of California, Berkeley, Doctoral dissertation. Apr 2008–Dec 2013. Advisor: Judith P. Klinman

Built and led two research teams for state-of-the-art biophysical characterization projects.

Carried through an individual research project to publication in a peer-reviewed journal.

Awarded an NIH Molecular Biophysics Training Grant.

Mentored three undergraduate student researchers.

Teaching Experience

UC Berkeley, Graduate Student Instructor, introductory and advanced chemistry and biology labs.

Columbia Univ., Teaching Assistant, general chemistry lecture and lab.

Skills

Python (advanced)

R (intermediate)

SQL (basic)

Other Activities

California Triathlon, UC Berkeley Club Sports, 2008–2013. Sponsorships Chair, 2012–2013 season

Chemistry Graduate Life Committee, UC Berkeley, 2009–2012. Funding Chair, November 2009–December 2012

Columbia University Men's Lightweight Rowing (EARC/NCAA Division I), 2002–2005

Languages

English (native), German (expert, Goethe-Zertifikat C2), French (intermediate)