

Jonathan Wilkey

www.linkedin.com/in/jonathanwilkey

(801) 577-2980

jon.wilkey@gmail.com

Summary

- Chemical engineer interested in pursuing a career in the field of air quality
- Depth and breadth of experience in air quality modeling, testing, and cost estimation
- Three years of experience working directly with state and federal regulators to find solutions to emissions problems in the midstream/upstream oil and gas industry

Education

PhD in Chemical Engineering	Univ. of Utah	GPA: 3.66	May 2016
Combined BS/MS in Chemical Engineering	Univ. of Utah	GPA: 3.16	May 2012

Skills

- **Programming:** R, Matlab, LaTeX, SQL, VBA
- **Software:** Aspen Plus, ProMax, COMSOL, AutoCAD, MathCAD, Office, Polymath
- **Certifications:** Fundamentals of Engineering

Experience

Univ. of Utah Dept. of Chemical Engineering Salt Lake City, UT
Research Associate Dec. 2006 – Present

- Applied data science techniques to model impacts of oil and gas development in the state of UT
- Wrote software forecasting tools used by UT state regulators to estimate oil and gas emissions
- Evaluated the economic feasibility and key barriers to novel oil production technologies

Dept. of Energy National Energy Technology Laboratory Pittsburgh, PA
Engineering Intern May 2009 – Aug. 2009

- Organized and led field study to test methods for identifying abandoned wells via methane leaks

EmiSense Salt Lake City, UT
Engineering Intern Oct. 2007 – May 2008

- Fabricated and tested multilayered ceramic devices as part of a R&D effort to create high performance emissions sensors for diesel engines.

United States Air Force Reserve Salt Lake City, UT
F-16 Aircraft Maintenance Mechanic April 2002 – April 2008

- Performed ground handling, servicing, inspection, and general maintenance on F-16 aircraft
- Certified on trained on aircraft battle damage repair
- Honorably discharged at rank of Staff Sergeant.

Rhodes Environmental Salt Lake City, UT
Stack Tester Aug. 2002 – Dec. 2002

- Tested emissions from industrial point sources to verify client's compliance with EPA regulations.
- Obtained certification to perform visual emissions testing using EPA Method 9

Relevant Publications

Wilkey J, Kelly K, Jaramillo IC, et al. Predicting emissions from oil and gas operations in the Uinta Basin, Utah. *J Air Waste Manage Assoc.* 2016;66(5):528-545.

Community Involvement

Univ. of Utah Bicycle Collective Salt Lake City, UT
Program Director Dec. 2006 – April 2008

- Created and directed student run community bicycle shop
- Led development of group from 3 to 127 members
- Raised \$9,000 from campus and business sources to purchase tools, supplies, and equipment