

TAYLOR GEISLER

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1601 Channing Ave, Palo Alto, CA 94303

SUMMARY

- Engineering Ph.D. who loves data, machine learning, and coding
- Expert in computer modeling of airflow and microparticles in lungs
- Scrappy and self-motivated learner, excited by new domains and collaborations

EDUCATION

Stanford University, Stanford, CA

2014 - August 2019 (*Expected*)

Ph.D. in Chemical Engineering

Advisors: Eric Shaqfeh and Gianluca Iaccarino

Thesis Focus: Modeling of Respiratory Airflow

Relevant Coursework: CS 229 Machine Learning, CME 212 Advanced Software Development

University of Utah, Salt Lake City, UT

August 2011 - June 2014

B.S. Chemical Engineering

Cornell University, Ithaca, NY

August 2008 - June 2009

CLASS DATA PROJECTS

- Classified images of various fish species using footage from fishing vessels
- Coded 10+ GPUs in parallel for training neural net to recognize handwritten digits (C++, CUDA)

POSITIONS HELD

Graduate Research Assistant

September 2014 - Present

Computational Fluid Dynamics with Medical Applications, PI: Shaqfeh

Stanford University

- Collaborative research in applied modeling and estimation of particle delivery to lungs
- Wrote high-performance parallel code and ran on US DOD's largest supercomputers

Process Control Engineer - APCO

October 2013 - August 2014

- Programmed advanced control instrumentation for industrial customers

Process Control Intern - Chevron Corporation

May 2013 - August 2013

- Maintained and updated a process control system for a pilot chemical plant in refinery

Research Assistant - Institute for Clean and Secure Energy

October 2011 - May 2013

- Conducted experiments investigating the viability of oxy-coal combustion for clean energy applications

SKILLS

Statistical Learning: R, Keras, TensorFlow

Strong: Python(5 years), Matlab (10 years), C++(7 years), Fortran(5 years)
Proficient: Javascript(2 years), CUDA(1 year), LaTeX(6 years), Git(4 years)

Additional Info

4 Publications & 5 Presentations
Spent 2 years in West Africa volunteering

Interests

Long-distance runner
Aspiring oil painter
Currently trying to ski on every continent.