

ARIN R GREENWOOD, PH.D.

Portland, OR | araegreenwood@gmail.com | (707) 815-9092 | argwood.github.io

EXPERIENCE **RET DESIGN DATA SCIENTIST, INTEL** **AUGUST 2020 - PRESENT**

Skills: C++, Python, LUA, statistical data analysis, data visualization, machine learning
Improving performance and efficiency of computer chips using data-driven computational simulations, statistical modelling, and machine learning. Persuading fabrication engineers to adopt new methods and make process adjustments through effective presentation of my simulation data.

ADJUNCT PROFESSOR, INTERACTIVE GAMES & MEDIA @ RIT **JANUARY 2022 - PRESENT**

Skills: Javascript, D3, HTML, data storytelling, course development
Teaching Data Visualization/Data Storytelling to 4th Year college students in the School of Interactive Games and Media who have little to no experience working with data.

PH.D. CANDIDATE/RESEARCHER, PRITZKER SCHOOL OF MOLECULAR ENGINEERING @ U CHICAGO **SEPTEMBER 2014 - AUGUST 2022**

Skills: Python, SQL, HTML, Pandas/NumPy, Tableau, machine learning, data visualization
Developed a computational framework that coupled three open-source massively-parallel software packages with Python for novel calculations of material properties. Determined optimal solar cell nanomaterials for chemists using simulations and analytical modelling. Published 3 papers and presented at 5 international conferences.

RESEARCHER & TOOL OWNER, CENTER FOR NANOTECHNOLOGY @ UW **SEPTEMBER 2011 - JUNE 2014**

Conducted independent research on nanolithography devices using state-of-the-art equipment. Trained new users (mostly adults much older than I) on Scanning Electron Microscopes and maintained equipment.

OTHER **TEACHING ASSISTANT/LECTURER, U CHICAGO** **SEPTEMBER 2015 – DECEMBER 2019**

Lectured for 1 high school engineering and 1 8th grade physics class; mentored undergraduate and graduate students. TA for Transport Phenomena (3rd year undergrads)

SCIENCE COMMUNICATION FELLOW, MUSEUM OF SCIENCE AND INDUSTRY **SEPTEMBER 2015 – APRIL 2018**

Led workshops that taught middle school classes about renewable energy. Developed skills to tailor highly technical or complex information to communicate effectively with a variety of audiences during a 2-year communication workshop series.

EDUCATION **University of Chicago, Ph.D. Molecular Engineering**

Thesis defended July 2020

University of Washington, B.S. Chemical Engineering

Graduated June 2014 with Honors