

Alex Heilman, Ph.D. *Data Scientist*

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SUMMARY

Ph.D. chemical engineer turned data scientist who no longer has any relevant experience, skills, or publications to speak of. Hopeful that the Galvanize DSI will help me fill in the rest of this page by April.

TECHNICAL SKILLS

Programming & Data Analysis

Python, Pandas, SciPy, LabView, SQL, Matlab/Octave...???

PROJECTS

Nothing yet...

EXPERIENCE

Jan. 19 – Present **Galvanize** *Seattle, WA*
Data Science Student

- ???

Jan. 18 – Jan. 19 **Pacific Science Center** *Seattle, WA*
Exhibit Technician

- Collaborated with Exhibits team to develop and prototype new exhibits and experiences.
- Inspected, maintained, and repaired existing exhibits, improving upon original design whenever possible.

Jan. 11 – Jul. 17 **University of California Santa Barbara** *Santa Barbara, CA*
Graduate Student Researcher **P.I.:** Prof. Michael Gordon

- Independently designed and constructed a custom tip-enhanced near-field optical microscope for nanoscale optical and chemical interrogation of surfaces (e.g., local surface chemistry, plasmonic phenomena); process included:
 1. Design, fabrication, and optimization of custom opto-mechanical components/systems.
 2. Automation of instrument operation and data acquisition/analysis (LabVIEW).
 3. Critical evaluation of instrument performance and development of a framework for the scientific interpretation of novel experimental results.

EDUCATION

2010 – 2017 **University of California Santa Barbara** *Santa Barbara, CA*
Ph.D. in Chemical Engineering **GPA:** 3.70
Thesis title: “Development of a tip-enhanced near-field optical microscope for nanoscale interrogation of surface chemistry and plasmonic phenomena”

2006 – 2010 **University of Kentucky** *Lexington, KY*
B.S. in Chemical Engineering **GPA:** 3.90 (*summa cum laude*)
Minor: Mathematics Completed Honors Program