Haydin K. Bradshaw

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**Data Scientist with a background in chemistry, material sciences, and stock market analysis. Highly motivated, curious and creative researcher passionate to apply my past expertise and continual learning to advancing intelligent decision-making through applied machine learning and the scientific process.**

**EXPERIENCE**

**Nanosys Inc. Milpitas, CA**

*Chemical Manufacturing Technician*March 2018 – November 2019

Worked closely with R&D, Manufacturing, and Quality Control (QC) to test, produce, and ship at large-scale quantum dots for display technologies in a fast-paced, interdisciplinary environment

* Introduced an automated excel spreadsheet using VBA and excel formula for all manufacturing and R&D requests to QC.
* Pivotal in processing and shipping 12,000 kg of quantum dots, largest in company history.
* Trained personnel on synthetic, manufacturing, and shipping procedures.
* Grew and improved in a fast-paced environment, working with multiple, diverse teams to continually reach and break past quarterly milestones.

**UW Material Science and Engineering Lab, Dr. Kannan Krishnan Seattle, WA**

*Undergraduate Research Assistant* September 2013 – December 2015

* Researched, synthesized, optimized, and modified multi-modal super paramagnetic iron oxide nanoparticles for use in magnetic particle imaging for cancer detection and relevant biological works.
  + Performed experiments and assisted in research that lead to co-authorships on five scientific papers (see below)
  + Synthesized upwards of 100 size specific batches of iron oxide nanoparticles as well as conjugating various polymers, peptides, and proteins to said nanoparticles for enhanced cancer targeting ability
  + Managed and trained one undergraduate and three graduate laboratory personnel
  + Experimented with nanoparticle encapsulation for diabetes treatment
  + Cultivated and ran various experiments with cell lines and cultures

**Dennis Bradshaw Dentistry Pasco, WA**

*Dental Assistant, Janitor, and IT Technician for family owned business* June 2009 – August 2011

* Provide informational technology support to secretarial and business staff.
* Prepare examination rooms, sterilize equipment, and assist hygienists in relevant day-to-day activities
* Weekly cleaning of Dental clinic following medical waste disposal protocols, restocking of medical supplies, and general office upkeep

**PUBLICATIONS: (Author or Co-Author)**

**Available upon request.**

**EDUCATION**

**B.S. Chemistry, Minor in Material Science and Engineering June 2016**

*University of Washington, Seattle, WA*

* **Coursework Highlights:** *Computer Programming I, Differential Equations, Adv. Multivariable Calculus, Matrix Algebra with Applications, Computations in Chemistry, Quantitative Analysis, Spectroscopic Molecular Identification, Physical Chemistry with intro to Quantum Chemistry, Molecular and Nanoscale Principals, Bioengineering Problem Solving, and Technical Writing*
* **Group Project:** Computational Study of Hydrogenation of Carbon Dioxide by Ir-PNP Complex

**SKILLS, VOLUNTEERING & INTERESTS**

**Programming & Data Analysis:**

Python, Pandas, SciPy, Numpy, Scikit-Learn, Javascript, Matlab, Mathematical Proofs

**Database Management:**

SQL, MongoDB, Git, Bash

**Data Visualization** Matplotlib, Seaborn

**Scalable Data Technologies:**

Apache Spark, AWS, Web-Scraping, Hive

**Interests & Languages:** Avid golfer and squash player, kendo, cooking, stock trading; Native English, intermediate Japanese

**REFERENCES:**

**Dr. Hamid Arami:** *Postdoctoral Fellow at Stanford University* | 206-409-1753

**Ken Ames:** *Pacific Northwest National Laboratory* | 509-554-9863

**Lois Roberts:** *Liberty Christian School*| 509-546-1125