

Alexander Hahn

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Education

Masters Degree in Bioinformatics (2017-2018) *Universitat Autònoma de Barcelona, Spain*

- **Thesis:** "Evaluation of the Impacts of DFT(B3LYP) and Semi-empirical (RM1)-derived MST Hydrophobic Descriptors on 3D-QSAR (HyPhar) Statistical Performances"

Bachelor of Science Degree in Biology (2013-2016) *University of Texas at Arlington*

- Received full merit-based tuition scholarship for the entirety of my program

Associate Degree in Science and Engineering (2011-2013) *Richland Community College*

- Attended concurrently with my Jr / Sr years of high school. Received high school diploma and Associate's degree simultaneously

Experience

Pharmacelera (2018) *Internship for Masters Practical, Barcelona, Spain*

- **Large Data Analysis** - created a computational chemistry tool for automatically preparing data samples, performing multiple types of analysis and extracting the relevant results for massive datasets
- **Machine Learning Tools** - worked on implementing Stanford's machine learning based *DeepChem* into our company's product pipeline using Python and Tensorflow
- **Product Development** - Worked with team on implementing various new features and parts of our two main product's respective workflow pipeline for client side implementation
- **Database Management** - Worked on importing external database information from freely available and proprietary molecular databases worldwide.

FireRoad Digital (2016 - 2017) *Software and Web Developer, Dallas, TX*

- **Wordpress Development** - developed websites for clients including custom coding and theming
- **App Development** - used Ionic platform to create marketing based apps for clients using Javascript
- **Database Management** - worked with clients website on the database side using PHP

UTA Genetics Lab (2014 - 2015) *Lab Researcher, Arlington, TX*

- **Scientific Methodology** - utilized the candidate gene approach to discover novel connections between known genes in mice with potentially similar genes found in birds studied in the lab

Projects

Rosalind Tools - a library for solving Bioinformatics problems that I worked through and developed originally to learn Python and Bioinformatics. Contained around fifty individual programs patched together

Deepchem Tools - A program I wrote that implements the Deepchem library for performing machine learning enhanced molecular toxicity analysis using SMILEY coded molecules

Relevant Skills

Two years of experience - Python, Linux (bash), Computational Biology

One year of experience - R, Genome Informatics, Machine Learning