

technical skills

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programming languages python, r database SQL, mongoDB scripts
JavaScript, CoffeeScript web HTML,
CSS, Bootstrap platforms linux,
macOS data formats csv, json, xml,
unstructured, python dict IDE jupyter,
r studio cloud AWS other bash, *nix
command line, tableau

data scicence tools

python pandas, numpy, scipy, scikitlearn, matplotlib, bokeh, seaborn, graphlab-create, spark **R** dplyr, data.table, ggvis, ggplot, caret, shiny **JavaScript** D3.js, json

other skills

languages portuguese, english, spanish project management MS Project, agile, scrum bioinformatics high-throughput sequencing and analysis, r bioconductor, biopython, healthcare, GATK

Fernando Gelin

Data Scientist

Education

Project Management Certificate, Biotech Jan 2015 - Nov 2015

University of Washington, Seattle, WA / University of California, San Diego, CA

Ph.D. Biology Sep 2009 - May 2014

University of Vermont, Burlington, VT

Relevant coursework / Online training

The Data Scientist's Toolbox R Programming Getting and Cleaning Data Exploratory Data Analysis Reproducible Research Using the Command-Line for Analysis of High Throughput Sequence Data Machine Learning Foundations: A Case Study Approach Data Manipulation at Scale: Systems and Algorithms Machine Learning: Regression Machine Learning: Classification Project Management: Standards and Processes Project Management Within a Biotech/Research Environment Applying Project Management Principles to Biomedical and Pharmaceutical Product Development Accessing Biomedical Big Data Visualization of Biomedical Big Data

Experience

Senior Research Fellow Jun 2014 - Jun 2016

Department of Psychiatry and Behavioral Sciences - University of Washington, Seattle,

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- Analyzed human genome sequences using cutting edge bioinformatics tools such as GATK, Picard, BWA.
- Developed Python scrits for data cleaning, processing, and visualizations.
- Created a R shiny app to explore and visualize variant data. 🖵 🔾
- Created a web application to generate protocols and calculate reagent amount for targeted sequencing reactions.
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Other Projects

Pronto Cycle Share Data Challenge Nov 2015 🖵 🗘

- Data analysis and visualization of Seattle's bike share service first year of opperation.
- Tools: **R** dplyr, data.table, reshape2, jsonlite, leaflet, maptools **web** HTML, CSS, JS, D3.js.

Obesity Comorbidity Analysis Jan 2016

- Obesity comorbidity analysis using PubMed articles database.
- Tools: Python pandas, numpy, json, urlib2, sqlalchemy, biopython, entrez, bokeh database PostgreSQL cloud AWS RDS.

Brainspan Viz March 2016 - present **Q**

- Interactive visualization of gene expression by braing region and age using data from brainspan.org (in progress).
- Tools: **Python** pandas, numpy, pymongo, scipy, scikit-learn, bokeh **database** MongoDB.