

HANA LEE

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SUMMARY

- Scientist interested in exploring and analyzing big data to solve meaningful problems.
- Former career as a genetics and genomics researcher, with expertise in analysis of next-generation sequencing data sets and scientific computing for the life sciences.

SKILLS

- Scientific computing and visualization
 - **R:** caret, ggplot2, shiny, knitr
 - **Python:** numpy, pandas, scikit-learn, seaborn, jupyter
- Relational databases: **SQLite, MySQL**
- Web frameworks: **Django, web2py**

ROLES AND EXPERIENCES

- **Data analysis and visualization:** I built data cleaning and processing pipelines in Python for terabyte-scale data sets and used R for exploratory data analysis and statistical testing, with nonparametric methods, generalized linear models, and multiple testing correction.
- **Teaching and communication:** I introduced undergraduate and doctoral students to programming through Python and R. I also co-taught a workshop for scientists on analyzing next-generation sequencing data in R. I am expert at communicating complex information to nonspecialist audiences through data visualization and oral presentations.
- **Self-directed learning:** As side projects, I built a classification model to predict exercise movements, created a webapp to deliver predictions on gas mileage, developed a web interface to crowdsource media metadata, wrote the backend for a website to manage invitations, and maintained a donations website. I am currently working on the Yelp Dataset Challenge and Kaggle competitions.

EDUCATION

- 2012 **Ph.D.** Molecular Biology, University of California, Berkeley
- 2007 **A.B.** Biochemical Sciences, Harvard University