

TIMOTHY KEYES

I am a data scientist, bioinformatician, and cancer biologist. In my work, I develop statistical and machine learning algorithms for analyzing high-dimensional single-cell data and predicting clinical outcomes in cancer patients.

I am searching for a position at the intersection of biomedical data science, machine learning, and medicine where I can use data to solve problems relevant to human health.

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🐦 [@timothykeyes](https://twitter.com/timothykeyes)
🔗 [keyes-timothy](https://keyes-timothy.github.io)
🔗 keyes-timothy.github.io
in [timothy-keyes](https://timothy-keyes.github.io)

🎓 EDUCATION

- Current | 2015
- **M.D./Ph.D. – Cancer Biology**
Stanford University 📍 Stanford, CA
 - National Cancer Institute National Research Service Award fellow
 - Advisors: Kara Davis and Garry Nolan
- Current | 2020
- **M.S. – Biomedical Informatics (concurrent with MD/PhD)**
Stanford University 📍 Stanford, CA
- 2014 | 2010
- **B.A. – Psychology and Computational Neuroscience**
Princeton University 📍 Princeton, NJ
 - Summa cum laude
 - GPA: 3.99

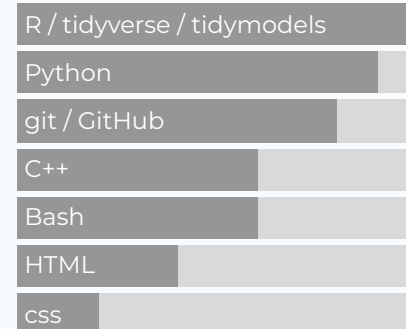
💼 SELECT EMPLOYMENT

- Current | 2022
- **Data Science Mentor – Posit Academy**
Posit, PBC (formerly RStudio, PBC) 📍 Stanford, CA
 - Leading group-based instruction and one-on-one mentoring for Posit Academy cohorts learning R and Python
 - Engaging in regular professional development programming with experienced data science educators
- 2022
- **Graduate Intern – Oncology Bioinformatics, gRED**
Genentech, Inc 📍 South San Francisco, CA
 - Codeveloped a novel algorithm for detecting transcription factor network perturbations in cancer using Bayesian network modeling
 - Automated a multiomic data integration pipeline for ATAC- and RNA-seq

📖 SELECT PUBLICATIONS

- 2022
- **{tidytof}: A user-friendly framework for scalable and reproducible high-dimensional cytometry data analysis.**
Under review (copy available upon request)
 - Keyes TJ, Koladiya A, Lo YC, Nolan GP, Davis KL.
 - Project website: <https://keyes-timothy.github.io/tidytof/>
- 2022
- **CytofIn enables Integrated Analysis of Public Mass Cytometry Datasets using Generalized Anchors**
[Nature Communications](#)
 - Lo YC, Keyes TJ, Jager A, Sarno J, Domizi P, Majeti R, Sakamoto KM, Lacayo N, Mulligan CG, Waters J, Sahaf B, Bendall SC, Davis KL
- 2020
- **A cancer biologist's primer on machine learning applications in high-dimensional cytometry**
[Cytometry](#)
 - Keyes TJ, Domizi P, Lo YC, Nolan GP, and Davis KL

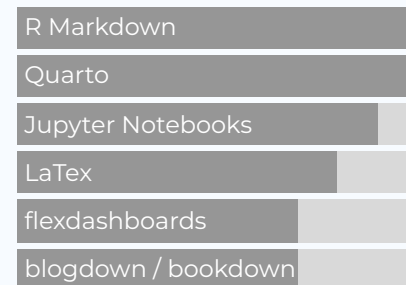
🔧 PROGRAMMING



📊 DATA ANALYSIS

Exploratory data analysis
Data visualization (e.g. ggplot2)
Data cleaning (e.g. dplyr, pandas)
Deep Learning (Keras, TF)
Machine learning (e.g. Factor Analysis, GLMs, SVMs, Tree-based models)

📄 LITERATE CODING



Resume generated in R with
[pagedown](#)

Source code:
github.com/keyes-timothy/cv

Updated December 04, 2022.

