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 currently 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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EDUCATION

Current | 2015 — **M.D./Ph.D. - Cancer Biology**
Stanford University — Stanford, CA

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

EMPLOYMENT

Current | 2022 — **Data Science Mentor - Posit Academy**
Posit, PBC (formerly RStudio, PBC) — Stanford, CA

2022 — **Graduate Intern - Oncology Bioinformatics, gRED**
Genentech, Inc — South San Francisco, CA

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

- R / tidyverse / tidymodels
- Python
- git / GitHub
- C++
- Bash
- HTML
- css

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

- R Markdown
- Quarto
- Jupyter Notebooks
- LaTex
- flexdashboards
- blogdown / bookdown

Last updated on 2022-12-04.