

Thadryan Sweeney

Technologist, Instructor

I am a Computational Biologist and Scientific Software Developer interested in applying statistical and computational techniques to the study of systems large and small.

Research Positions

- 2020 **Research Technologist**, *Mass General/Harvard Medical School*, Boston, MA.
- 2018 **Bioinformatics & Data Science Contractor**, *bluebird bio*, Cambridge, MA.

Education

- 2011 **Associate of Arts**, *Greenfield Community College*, Greenfield, MA.
- 2013 **Bachelor of Science**, *American International College*, Springfield, MA.
- 2019 **Master of Science**, *Northeastern University*, Boston, MA.

Teaching & Assistantships

Instructor

- 2020 **Bioinformatics Methods I (spring)**, *Northeastern University*.
- 2020 **Bioinformatics Methods I (fall)**, *Northeastern University*.
- 2021 **Bioinformatics Methods I (spring)**, *Northeastern University*.

Teaching Assistant

- 2018 **Bioinformatics programming**, *Northeastern University College of Science*.
- 2018 **Collecting, storing, and retrieving data**, *Northeastern University College of Computer & Information Science*.
- 2018 **Introduction to data science and machine learning (spring)**, *Northeastern University College of Computer & Information Science*.

Published Software

- 2020 An interactive Bayesian Ttool for SARS-CoV2-Antibody test interpretation. Manuscript supplement, <https://covid.omics.kitchen/>
- 2021 ContrApption: interactive JavaScript widgets for visualizing RNA-Seq like data from a single function call in R. <https://github.com/omics-kitchen/ContrApption>

Publications

Accepted

- 2021 **Evaluation of serological lateral flow assays for severe acute respiratory syndrome coronavirus-2**, Supplement: <https://covid.omics.kitchen/>.

In preparation

- TBD **miRNAs in canine mitral valve disorders.**
- TBD **An atlas of miRNAs by tissue type.**
- TBD **ContrApption: interactive visualization of RNA-Seq style datasets from a single function call.**

Pre-academic work

Antibody Technician - New England Peptide (Now 'Vivitide')

Sept. '15 - Sept. '17

- Ran day-to-day operations of antibody production lab as sole technician
- Self-taught Python programming to automate bioinformatics tasks, saving weeks of effort and dozens of errors
- Studied and practiced antigen design under an industry leader

Chemical Operator, Vinegar Plant - Pilgrim Foods

Mar. '15 - Sept. '15

- Inoculated, monitored, and maintained live cultures of Acetobacter for fermentation of ethanol to acetic acid
- Redefined instrument calibration procedure by observing logarithmic trends in data previously modeled as linear
- Formulated batches of mash to alcohol, acidity, stock, and water specifications

Asst. Manager, Peer Counselor - The Bridge of Central Mass

(Now 'Open Sky Community Services')

Nov. '13 - Mar. '15

- Counseled individuals aged 18-25 in their recovery from mental illness and trauma
- Provided quality assurance for medication administration and financial tracking

📞 +978 696 6946 • ✉ thadryan@protonmail.com
🌐 sweeney-th.github.io • in thadryan-sweeney-10b938a
🐦 ThadryanJS • 🌐 sweeney-th

- Supervised nine employees during shifts and on call from home for crisis management

Firefighter/EMT - Orange Fire Rescue EMS

Jun. '08 - Sept. '14

- Engaged in fire/rescue activities, structural and wildland firefighting, search operations, and trauma management
- Responded to medical emergencies, performed CPR/Basic life support, and administered medication
- Participated in search and rescue operations and trainings, including ice rescue training and boat operations

Media

2020 COVID-19 LFA Research. <https://www.wcvb.com/article/boston-researchers-assess-performance-of-covid-19-antibody-tests/33625088>