Updated July 31, 2022

2014 - 2016

2013

Michael Sellers Cuoco

PhD Student, Bioinformatics and Systems Biology

Research interests Retrotransposon activity in the developing, healthy, aging, and diseased

human brain.

Education University of California, San Diego La Jolla, California

PhD in Bioinformatics and Systems Biology In Progress

Advised by Rusty Gage and Eran Mukamel

Trinity College Hartford, Connecticut

BS in Molecular and Cellular Biology May 2016

Minor in Models and Data

Honors and Awards NSF Graduate Research Fellowship 2022

National Science Foundation (NSF)

Spot Award 2017

Broad Institute

Beta Beta Beta National Biology Honors Society 2014

Trinity College

NESCAC Winter All-Academic Team 2014

Trinity College

Research experience Research Associate 2016 – 2020

Broad Institute Cambridge, Massachusetts

Mentors: Aviv Regev, Benjamin Izar, Pratiksha Thakore, Yaara Oren Used methods in single-cell RNA-seq and CRISPR screening to investigate

the mechanisms of cancer drug resistance.

Undergraduate Researcher

Dana-Farber Cancer Institute Boston, Massachusetts

Mentors: Matthew Meyerson, Alison Taylor

Used targeted CRISPR-Cas9 approaches to engineer chromosome arm dele-

tion in cancer cell lines.

Undergraduate Researcher

Trinity College Hartford, Connecticut

HHMI Science Education Alliance-Phage Hunters Advancing Genomics

and Evolutionary Science program. (SEA-PHAGES: seaphages.org)

Isolated and purified bacteriophage species. Sequenced and annotated the bacteriophage's genome

Research: Published

- Eraslan, G., Drokhlyansky, E., Anand, S., Fiskin, E., Subramanian, A., Slyper, M., Wang, J., Wittenberghe, N. V., Rouhana, J. M., Waldman, J., Ashenberg, O., Lek, M., Dionne, D., Win, T. S., Cuoco, M. S., Kuksenko, O., Tsankov, A. M., Branton, P. A., Marshall, J. L., Greka, A., Getz, G., Segrè, A. V., Aguet, F., Rozenblatt-Rosen, O., Ardlie, K. G., Regev, A., "Single-nucleus cross-tissue molecular reference maps toward understanding disease gene function." In: Science (New York, N.Y.) 376 (6594 May 14, 2022). DOI: 10.1126/science.ab14290.
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Research: Preprint

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Teaching experience Bootcamp instructor Fall 2021, Fall 2022

Bioinformatics and Systems Biology, UCSD La Jolla, California

Teaching assistant Spring 2015

Department of Biology, Trinity College Hartford, Connecticut

BIOL 224: Genetics

Tutor 2014-2016

Department of Biology, Trinity College Hartford, Connecticut

BIOL 182: Evolution of Life BIOL 183: Cellular Basis of Life

BIOL 224: Genetics

Service and Outreach Diversity and Science Lecture Series (DASL) La Jolla, California

Seminar Organizer 2021 - Present Symposium Organizer Fall 2021

Biology Undergraduate and Master's Mentorship Program (BUMMP)

La Jolla, California

Mentor 2021 - Present

Graduate Bioinformatics Council (GBIC) La Jolla, California

Director of Onboarding 2021 - Present

2022

SciChats@Salk Education OutreachLa Jolla, CaliforniaVolunteer - High Tech High MesaFall 2021Volunteer - La Jolla High SchoolFall 2021

Skills **Programming**

Proficient in: R, LaTeX, Bash.

Symposium Organizer

Familiar with: Python, Google Cloud Platform.