Michael Sellers Cuoco

PhD Student, Bioinformatics and Systems Biology

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|---------------------------------------|---|--------------------------|--|
| Research interests | Retrotransposon activity in the developing, a brain. | ging, and diseased human | |
| Education | University of California, San Diego | La Jolla, California | |
| | PhD in Bioinformatics and Systems Biology | In Progress | |
| | Thesis Committee: | _ | |
| | • Fred H. Gage, PhD (Chair) | | |
| | • Eran A. Mukamel, PhD (Co-Chair) | | |
| | • Graham McVicker, PhD | | |
| | • Melissa Gymrek, PhD | | |
| | • Nicholas Schork, PhD | | |
| | 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 National Biology Honors Society Trinity College | ty 2014 | |
| | NESCAC Winter All-Academic Team | 2014 | |
| | Trinity College | | |
| Research experience | PhD Student | 2020 – Present | |
| - | Gage Lab, Salk Institute for Biological Studies | La Jolla, California | |
| | Mukamel Lab, UC San Diego | La Jolla, California | |
| | Mentors: Fred H. Gage and Eran A. Mukamel | | |
| | Research Associate | 2016 - 2020 | |
| | Regev Lab, Broad Institute | Cambridge, Massachusetts | |
| | <i>G ,</i> | | |
| | Mentors: Aviv Regev, Benjamin Izar, Pratiksha Thakore, Yaara Oren | | |

Undergraduate Researcher

2014 - 2016

Meyerson Lab, Dana-Farber Cancer Institute

Boston, Massachusetts

Mentors: Matthew Meyerson and Alison Taylor

Undergraduate Researcher

2013

Trinity College

Hartford, Connecticut

HHMI Science Education Alliance-Phage Hunters Advancing Genomics and Evolutionary Science program. (SEA-PHAGES: seaphages.org)

Research: Published

- Subramanian, A., Vernon, K. A., Zhou, Y., Marshall, J. L., Alimova, M., Arevalo, C., Zhang, F., Slyper, M., Waldman, J., Montesinos, M. S., Dionne, D., Nguyen, L. T., Cuoco, M. S., Dubinsky, D., Purnell, J., Keller, K., Sturner, S. H., Grinkevich, E., Ghoshal, A., Kotek, A., Trivioli, G., Richoz, N., Humphrey, M. B., Darby, I. G., Miller, S. J., Xu, Y., Weins, A., Chloe-Villani, A., Chang, S. L., Kretzler, M., Rosenblatt-Rosen, O., Shaw, J. L., Zimmerman, K. A., Clatworthy, M. R., Regev, A., Greka, A., "Protective role for kidney TREM2high macrophages in obesity- and diabetes-induced kidney injury." In: Cell reports 43 (6 May 23, 2024). DOI: 10.1016/j.celrep.2024.114253.
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Research: Preprint

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| Mentorship | Joelle Faybishenko | Fall 2022 – present |
|--------------------|---|------------------------|
| | Undergraduate Student, UC San Diego Gage Lab, Salk Institute for Biological Studies | La Jolla, California |
| | Evan Lee Undergraduate Student, UC San Diego | Fall 2022 – present |
| | Biology Undergraduate and Master's Mentorship, | La Jolla, California |
| | Rohini Gadde Undergraduate Student, UC San Diego | Fall 2021 – present |
| | Undergraduate Student, UC San Diego Mukamel Lab, UC San Diego | La Jolla, California |
| | Anise Porter | Fall 2020 – present |
| | Undergraduate Student, UC San Diego Biology Undergraduate and Master's Mentorship, | La Jolla, California |
| | Jesslyn Goh | Fall 2019 – 2020 |
| | Undergraduate Student, Wellesley College Regev Lab, Broad Institute Ca | mbridge, Massachusetts |
| | Current: Masters Student, Harvard University | Boston, Massachusetts |
| Teaching | Bootcamp instructor | Fall 2021, Fall 2022 |
| | Bioinformatics and Systems Biology, UCSD | La Jolla, California |
| | Teaching assistant | Spring 2015 |
| | Department of Biology, Trinity College BIOL 224: Genetics | Hartford, Connecticut |
| | Tutor | 2014 - 2016 |
| | Department of Biology, Trinity College BIOL 182: Evolution of Life BIOL 183: Cellular Basis of Life | Hartford, Connecticut |
| | BIOL 224: Genetics | |
| Service / Outreach | Committee Member | 2021 – Present |
| , | Advisory Committee on Diversity | La Jolla, California |

Salk Institute for Biological Studies

Director of Onboarding 2021 – Present **Symposium Organizer** 2022

Graduate Bioinformatics Council La Jolla, California

UCSD Bioinformatics and Systems Biology

Committee Member2020 - PresentDiversity Equity and Inclusion CommitteeLa Jolla, California

UCSD Bioinformatics and Systems Biology

Seminar Organizer2021Symposium OrganizerFall 2021Diversity and Science Lecture SeriesLa Jolla, California

UCSD

Volunteer - High Tech High Mesa Fall 2021
Volunteer - La Jolla High School Fall 2021
SciChats@Salk Education Outreach La Jolla, California

Salk Institute for Biological Studies

Programming Languages

Proficiencies / Skills

R, Python, Bash