Delaney K. Sullivan

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EDUCATION

2019 – present	**M.D./Ph.D. Candidate, UCLA-Caltech Medical Scientist Training Program**
2019	**M.S. Computer Science, Stanford University**
2016	**B.S. Biology, Stanford University**

HONORS/AWARDS

2019	**David Geffen Scholar** Merit scholarship awarded to select medical students at UCLA.
2018	**Walter J. Gores Award for excellence in teaching** Stanford University's highest award for excellence in teaching.
2017	**Excellence in Teaching Award** (Stanford University Department of Biology) Awarded to superb undergraduate and graduate course/teaching assistants.
2014	**Bio-X Summer Undergraduate Research Fellowship** Awarded funding for conducting research at Stanford in the summer of 2014.
2012	**National Merit Finalist, High School Valedictorian** (Rio Americano High School)

EXPERIENCE

6/2020 - present — **Graduate Rotation Student (Pachter Lab)**, Caltech

- Designing a kallisto | bustools workflow to analyze single-cell RNA-seq data generated from Smart-seq3 chemistry. Mentored by Professor Lior Pachter.

4/2019 - 6/2019 — **Course Instructor: MED 256**, Stanford University School of Medicine

- Created, designed, and taught the course: MED 256 (Gene Expression Profiling in Cancer), which was offered for 2-3 units (letter grade) in the spring of 2019.

7/2017 - 9/2017 — **Protein Biochemistry Intern,** SLAC National Accelerator Laboratory

- Performed enzyme kinetic studies to identify novel inhibitors of *M. tuberculosis* flavin-dependent thymidylate synthase.

12/2016 - 6/2018 — **Patient Navigator**, Stanford Hospital and Clinics

- Volunteered in Stanford Health Care as a patient navigator (90 hours total).
- Responsible for guiding patients and visitors through Stanford Hospital, handling deliveries to patients, and responding promptly to patients' requests.

9/2016 - 3/2018 — **Biology Teaching Assistant**, Stanford University

- Taught discussion sections and review sessions, held office hours, and graded exams for Stanford University's introductory biology courses.

1/2016 - 4/2019 — **Peer Counselor** and **Outreach Coordinator**, Stanford Bridge Peer Counseling

- Provided free, anonymous counseling and support to the Stanford community.
- Worked with a team to organize publicity efforts.

9/2013 - 6/2019 — **Research Assistant (Medicine/Oncology)**, Stanford University School of Medicine

- Conducted oncology research in Dr. Dean Felsher's laboratory.
- Projects have included: 1) Analyzing CRISPR screen data to identify novel synthetic lethal interactions with MYC, 2) Interrogating microarray and RNA-seq data to identify MYC gene expression signatures in cancer, and 3) Investigating how the MYC and KRAS oncogenes rewire lipid metabolism.

2014 – 2016 — **Peer Tutor**, Stanford University

- Worked for Stanford's Athletic Academic Resource Center (AARC), tutoring student athletes enrolled in the introductory computer science class: CS 106A.
- Created and taught a biology core review class, called Tackle Biology!.

4/2014, 4/2015 **SPLASH Teacher**, Stanford Educational Studies Program
- Gave lectures on cancer, DNA/Chromatin, & bioplastics to high school students.

PROJECTS

3/2017 **Physiology Course Notes**
- Wrote 78 pages of lecture notes to accompany the animal physiology unit of the introductory biology courses at Stanford. (*tinyurl.com/bio42physiology*)

5/27/2013 **Sanger Sequencing Web App**
- Designed an educational web application which provides an interactive yet informative way of explaining DNA sequencing. (*tinyurl.com/e25b-dna*)

PUBLICATIONS

scholar.google.com/citations?user=r8IhPSgAAAAJ (*Equal contribution; #Co-correspondence)

Journal articles:

1. Wang JX*, **Sullivan DK***, Wells AC, Chen JH. (2020). ClinicNet: machine learning for personalized clinical order set recommendations. ***JAMIA open***, *3(2)*, 216-224. *[PubMed ID: 32734162]*
2. Gouw AM*, Margulis K*, Liu NS, Raman SJ, Mancuso A, Toal GG, Tong L, Mosley A, Hsieh AL, **Sullivan DK**, Stine ZE, Altman BJ, Schulze A, Dang CV#, Zare RN#, Felsher DW#. (2019). The MYC Oncogene Cooperates with Sterol-Regulated Element-Binding Protein to Regulate Lipogenesis Essential for Neoplastic Growth. ***Cell Metabolism****, 30(3),* 556-572. *[PubMed ID: 31447321]*
3. **Sullivan D**. (2017). Leveraging Video Game Playing to Improve Computational Biology Research. ***Intersect: The Stanford Journal of Science, Technology and Society****, 10(2)*.
4. Gouw AM, Eberlin LS, Margulis K, **Sullivan DK**, Toal GG, Tong L, Zare RN#, Felsher DW#. (2017). Oncogene KRAS Activates Fatty Acid Synthase Resulting in Specific ERK and Lipid Signatures Associated with Lung Adenocarcinoma. ***Proc Natl Acad Sci U S A****, 114(17),* 4300-4305. *[PubMed ID: 28400509]*

Preprints:

1. Azizian NG, **Sullivan DK**, Nie L, Pardo S, Molleur D, Chen J, Weintraub ST, Li Y. Selective Labeling and Identification of the Tumor Cell Proteome of Pancreatic Cancer *In Vivo*. ***bioRxiv*** 2020.05.25.113670; doi: 10.1101/2020.05.25.113670 (Reviewed and under revision at *Journal of Proteome Research*)

Conference papers:

1. Wang JX*, **Sullivan DK***, Wells AJ*, Wells AC*, Chen JH. (2019). Neural Networks for Clinical Order Decision Support. ***AMIA Jt Summits Transl Sci Proc.****, 2019,* 315-324. *[PubMed ID: 31258984]* (Delivered an oral presentation at the AMIA Informatics Summit on March 27, 2019)

Abstracts:

1. Daniel Koch, Stacey Adams, Andrew Gentles, Benedict Anchang, **Delaney Sullivan**, Sylvia Plevritis, Dean Felsher. Gene expression signatures associated with MYC oncogene addiction in lymphoma. [abstract]. In: Proceedings of the AACR Special Conference on Myc: From Biology to Therapy; Jan 7-10, 2015; La Jolla, CA. Philadelphia (PA): AACR; Mol Cancer Res 2015;13(10 Suppl):Abstract nr A48.

OTHER ACTIVITIES

Peer-Reviewer: **PeerJ** (1 review submitted)

Forums: **Biostars** (profile: biostars.org/u/30020/). Contributed 150+ posts on bioinformatics.

STANDARDIZED EXAM SCORES

4/06/2018 **Medical College Admission Test (MCAT)** score: 521 (99th percentile)