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| **EDUCATION**  |
| **The Johns Hopkins School of Medicine**Medical Scientist Training Program (MSTP)Biochemistry, Molecular and Cellular Biology (BCMB) Graduate Program | Entering class of 2021 |
| **Stanford University** B.S. in Biology with Honors, Minor in Art Practice | Class of 2021GPA: 3.99  |
| **RESEARCH EXPERIENCE**  |
| **The Chi Van Dang Lab, Johns Hopkins University School of Medicine***Graduate Researcher** Studying T cell acetate/acetyl-CoA metabolism in the tumor microenvironment
* Developing skills in flow cytometry, metabolomics, mouse models of tumorigenesis and infection, and RNAseq, ATACseq, and ChIPseq data analysis
 | Sep 2023 – PresentBaltimore, MD |
| **The Carolyn R. Bertozzi Group, Stanford Department of Chemistry***Undergraduate Research Assistant** Developed a voltage imaging platform for characterizing neuronal network properties such as excitability, connectivity, and excitation-inhibition balance
* Investigated the role of membrane sialylation in modulating network behavior under normal and inflammatory conditions
 |  Sep 2018 – June 2021 Stanford, CA |
| **The Justin Kim Lab, Dana Farber Cancer Institute***Research Assistant** Assisted optimization of protein-labeling platform using engineered enzymes and redox-activated biorthogonal probes
 | Sep 2020 – Dec 2020Boston, MA |
| **The Jen Pan Lab, Broad Institute of MIT and Harvard***Broad Summer Scholars Program (BSSP) Student** Developed a membrane expression FRET assay for the CACNA1 voltage-gated calcium channel and studied localization of patient-derived mutant channels
 |  June 2016 – Sep 2016Cambridge, MA |
| **ACADEMIC AND PROFESSIONAL HONORS**  |
| Firestone Aware for Excellence in Undergraduate Research | 2021 |
| Award for Excellence in Honors Thesis Presentation | 2021 |
| Vice Provost of Undergraduate Education Major Grant | 2020 |
| Stanford ChEM-H Undergraduate Entrepreneurship Competition Winner ($50k grant) | 2019 |
| Stanford Dept. of Chemistry Summer Research Fellow  | 2019 |
| International Biology Olympiad Gold Medal (Team USA) | 2017 |
| U.S. Presidential Scholar | 2017 |
| National Science Bowl Champions | 2017 |
| National Merit Scholar | 2017 |
| **PUBLICATIONS** |
| 4. Zhang, X., Guo, X., **Wang, C.**, Gowtham Baskaran, S., Wang, Y., Stine, Z., Dang, C. “Cancer.” *Metabolism of Human Diseases: Organ Physiology and Pathophysiology,* Springer Nature, 2024. *In review.* |
| 3. Delaveris CS, **Wang CL**, Riley NM, Li S, Kulkarni RU, Bertozzi CR (2023). Microglia Mediate Contact-Independent Neuronal Network Remodeling via Secreted Neuraminidase-3 Associated with Extracellular Vesicles. *ACS Central Science.* 9 (11), 2108-211. [Link](https://pubs.acs.org/doi/10.1021/acscentsci.3c01066) |
| 2. Kulkarni RU, **Wang CL**, Bertozzi CR (2022). Analyzing nested experimental designs—A user-friendly resampling method to determine experimental significance. *PLOS Computational Biology.* 10.1371. [Link](https://journals.plos.org/ploscompbiol/article?id=10.1371/journal.pcbi.1010061&rev=1) |
| 1. Kulkarni, RU, **Wang, CL,** Bertozzi, CR. Subthreshold Voltage Analysis Demonstrates Neuronal Cell-Surface Sialic Acids Modulate Excitability and Network Integration. *bioRxiv* 2020. [Preprint link](https://www.biorxiv.org/content/10.1101/2020.04.07.030866v1) |
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| **POSTERS AND PRESENTATIONS** |
| “Regulation of CD8 T cell activation under metabolic stress by acetyl-CoA synthetase 2” **Wang CL,** Ullah A, Leone RD, Dang CV. Presentation | *Biochemistry, Cellular and Molecular Biology (BCMB) Symposium, 2024*  |
| “Sialic Acid as a Modulator of Neuronal Activity” **Wang CL,** Bertozzi CR. Presentation | *Department of Biology Achauer Honors Symposium, Stanford, 2021*  |
| “Energized High Efficiency Learning in STEAM Labs Powered by Personalization and Gamification” **Wang CL**, Goodman K, Duong C, Goodman-Lee D, Robinson R, Deese M. Presentation | *International Society for Technology in Education (ISTE), 2020*  |
| “Studying the Neuronal Glycocalyx Using Voltage Imaging” **Wang CL**, Rishikesh U. Kulkarni, Carolyn R. BertozziPoster | *Symposium of Undergraduate Research and Public Service, Stanford, 2019* |
| **TEACHING EXPERIENCE** |
| **Subject Matter Expert,** Department of Energy, National Science Bowl | 2024 – Present |
| **Instructor**, USA Biology Olympiad National Finals, Center for Excellence and Education | 2018 – Present  |
| **Private Biology Tutor** | 2017 – Present |
| **Instructor and Curriculum Developer**, AGN School, Project Dosti | Summer 2018 |
| **SERVICE AND LEADERSHIP** |
| **Volunteer – Department of Energy National Science Bowl*** Served as an alumni judge and mentor to 500+ middle and high school students at NSB competitions
* Worked with local high schools to run unofficial invitational tournaments
* Wrote Biology, Earth and Space Science, and Energy questions for competition
 | 2018 – Present |
| **Member and Chair – Medical Student Research Symposium Organizing Committee (MSRS)*** Led a team of medical students to organize the annual full-day MSRS symposium
* Coordinated over 80 faculty judges to score abstracts, posters, and talks; invited keynote speaker and managed awards ceremony and reception
 | 2022 – 2023 |
| **Member – Hopkins Distinguished Speaker Series Organizing Committee (HMDSS)*** Invited distinguished speakers and moderators to give highly attended biannual fireside chat-style talks
 | 2022 |
| **Volunteer – Arbor Free Clinics** * Responsible for patient intake, history and case presentation, health education, and management of follow-up appointments
* Managed team of 30+ volunteers to implement long-term projects in social needs screening and improving follow-up rates
 |  2018 – 2021 |
| **Residential Assistant – Branner Hall Service Scholars Program*** RA for undergraduate residents in Branner Hall, Stanford’s service-themed dormitory
* Responsible for coordinating community programming and service events
 | 2020 – 2021 |
| **Volunteer, President – Project Dosti*** Developed high school science curriculum through Stanford-funded education project at the AGN School in Tamil Nadu, India
* Organized subsequent trips and training process for new volunteers
 | 2018 – 2020 |
| **REFERENCES** |
| **Professor Chi Van Dang, MD, PhD**Bunting Blaustein Cancer Research Building Rm 484Department of Cancer Genetics and Epigenetics, The Johns Hopkins University School of MedicineBaltimore, MD 21231cvdang@jhmi.edu**Professor Andrea Cox, MD, PhD**Rangos Research Bldg., Suite 536Division of Infectious Diseases, The Johns Hopkins University School of MedicineBaltimore, MD 21231acox@jhmi.edu **Professor Carolyn Bertozzi, PhD**ChEM-H Building., Rm 235ADepartment of Chemistry, Stanford UniversityStanford, CA 94305bertozzi@stanford.edu |