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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 2021  GPA: 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 – Present  Baltimore, 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 2020  Boston, 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 2016  Cambridge, 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. Bertozzi  Poster | *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 484  Department of Cancer Genetics and Epigenetics, The Johns Hopkins University School of Medicine  Baltimore, MD 21231  [cvdang@jhmi.edu](mailto:cvdang@jhmi.edu)  **Professor Andrea Cox, MD, PhD**  Rangos Research Bldg., Suite 536  Division of Infectious Diseases, The Johns Hopkins University School of Medicine  Baltimore, MD 21231  [acox@jhmi.edu](mailto:acox@jhmi.edu)  **Professor Carolyn Bertozzi, PhD**  ChEM-H Building., Rm 235A  Department of Chemistry, Stanford University  Stanford, CA 94305  [bertozzi@stanford.edu](mailto:bertozzi@stanford.edu) | | |