

Next-Gen Representative Research Program

The California Initiative to Advance Precision Medicine (CIAPM) supports cutting-edge biomedical and health research that generates new insights, prioritizes whole-person care, and advances community-driven solutions to reduce health inequities. CIAPM is awarding approximately \$1.8 million to support 12 doctoral students in California over a 2.5-year project term conducting representative precision medicine research that includes underrepresented populations as research participants, so that research ultimately benefits all Californians and reduces health disparities.

Deborah Adeyemi | UC San Francisco



Deborah Adeyemi is a PhD candidate in Epidemiology & Translational Science with a Designated Emphasis in Computational Precision Health. Her research interests include reproductive and perinatal epidemiology, health disparities and equity, health services research, delivery science, and machine learning. She is committed to translating quantitative findings into insights that can inform health care delivery and implementation in real-world settings, with a focus on reducing persistent racial disparities in women's health outcomes. Using large administrative, disease surveillance, and electronic health records data, she examines how risk and outcomes vary within populations that are often studied as homogeneous groups.

Isaac Bouchard | UC San Diego



Isaac grew up in the San Francisco Bay area, graduated with a Bachelor of Science in Psychological and Brain Sciences from UC Santa Barbara and received a Master of Arts in Clinical Psychology from CSU Northridge. He is currently a doctoral student in Public Health with a concentration in health services research and implementation science. His research interests lie at the intersection of whole-person digital health tools, implementation science, and human-computer interaction. Aside from research, Isaac loves to rock climb, hike, and watch movies.

Fan-Ying Chan | UC Irvine



Fan-Ying Chan is a PhD student, whose research focuses on applying artificial intelligence to real-world clinical practice. Trained as a pharmacist, she earned both her bachelor's and master's degrees in pharmacy from Taipei Medical University in Taiwan. Her research utilizes machine learning, electronic health record data, and patient-reported outcomes to improve clinical decision-making, symptom management, and quality of life for cancer survivors. As a CIAPM fellow, she aims to leverage these precision medicine approaches to advance more actionable, patient-centered cancer care in the United States.

Tracy Chidyausiku | Stanford



Tracy Chidyausiku earned her MS in Epidemiology and Clinical Research and her BA in Science, Technology, and Society from Stanford University. Prior to graduate school, she worked as a product manager developing data structures and mobile tools to advance Type 2 diabetes management. As a PhD candidate, she is investigating how poverty and the built environment impact diabetes prevention using mixed methods, geospatial analysis, and mobile data. Specifically, she is integrating multimodal patient-generated lived-experience data with electronic health record data to advance place-based precision diabetes prevention for low-income older adults at high risk for diabetes progression. Her long-term goal is to inform policymakers and create cost-effective, sustainable interventions to prevent diabetes.

Amber Keith | UC Riverside



Amber Keith is a PhD trainee in macrophage biology. Her research project focuses on precision medicine in pancreatic ductal adenocarcinoma (PDAC), investigating genetic and immune biomarkers to target tumor-macrophage interactions. Her goal is to improve outcomes for disproportionately affected groups, particularly within the African American community, and advocate for strategies to eliminate health disparities in cancer. Amber's foundational training includes stem cell and neurodegenerative disease research at CSU Fullerton and UC Irvine. Deeply inspired by her father's battle with PDAC, she is fiercely committed to translating bench science

Nikita Mohapatra | UC Davis



Nikita Mohapatra is an MD/PhD student in Biomedical Engineering at UC Davis. Her research explores extracellular vesicles as biomarkers of health and disease, with a focus on understanding how biological, social, and environmental factors contribute to differences in patient outcomes. She is interested in developing diagnostic tools that support more equitable and personalized healthcare, particularly in acute care settings where time and resources are limited. Outside of lab, Nikita enjoys cooking, crocheting, and hiking.



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Joseph Morrison | UC Davis



Joe Morrison is an MD/PhD student with a research focus on orthopedics and clinical diagnostics. His doctoral work in engineering examines whether routine X-rays and clinical information can predict bone healing complications earlier after surgery, with the goal of improving care for rural and underserved Californians. He has published work on emergency medicine, musculoskeletal health, and health disparities, and has been a policy advocate regarding homelessness and structural determinants of health in Northern California. He plans to pursue a career as a physician scientist focused on musculoskeletal care and research.

Sima Naderi | UC San Francisco

Sima Naderi, MPH, MSc is a PhD candidate in Global Health Sciences and a researcher from Afghanistan. Since 2021, she has collaborated with UCSF through the International Traineeships in AIDS Prevention Studies (ITAPS) program and contributed to research with the University of British Columbia and CanHealth International. At UCSF, she has served as a Rosenberg-Hill Graduate Research Fellow with the Graduate Division and Co-Chair of the BAGHA Student Advisory Board. Her research uses mixed methods, including discrete choice experiments, to study refugee and women's health and social determinants of health, with a focus on cervical cancer prevention through HPV vaccination and screening.



Sujin Park | UC San Diego



Sujin Park is a Cognitive Science PhD student in the Developmental Cognitive Neuroscience Lab. After completing her undergraduate degree with a double major in Political Science & Diplomacy and Psychology, she earned her master's degree from the Human Affective Neuroscience Lab at Sungkyunkwan University, South Korea. Her research integrates neuroimaging, physiological, and behavioral data to explain and predict symptoms of neurodevelopmental disorders, with the goal of facilitating early intervention and effective treatment. Her Representative Precision Medicine Research Program focuses on identifying precision fMRI-guided biomarkers of Tourette Syndrome in youth and studying how lived experience shapes their clinical and neurobiological profiles.

Nanase Toda | UC San Francisco

Nanase Toda is a PhD Candidate in the Pharmaceutical Sciences and Pharmacogenomics program. She earned her BS in Pharmaceutical Sciences from the University of Arizona. Her dissertation work investigates factors contributing to the increased risk of drug-induced angioedema in Black patient groups by leveraging electronic health record-linked biobanks. Preliminary work on this project landed her the 2026 Jason Morrow Award from the American Society of Clinical Pharmacology & Therapeutics. Following her PhD, Nanase plans to pursue a career in a pharmaceutical industry setting with an emphasis on advancing precision medicine health equity.



Julia Trudeau | UC Irvine



Julia Trudeau is a third-year PhD candidate in the School of Pharmacy and Pharmaceutical Sciences with a range of research experience encompassing cancer survivorship and supportive care, clinical trials, patient-reported outcomes, bioinformatics, and biomarker discovery. Her research aims to advance biomarker-driven precision medicine to mitigate cancer-related cognitive impairment (CRCI), a distressing, long-term condition with a disproportionate impact on racial and ethnic minorities in California. Her overarching aim is to contribute to patient-centered, equity-informed research that furthers precision medicine approaches to improve overall quality of life for cancer survivors.

Naying Zhou | University of Southern California

Naying Zhou is a PhD candidate in Epidemiology with a focus on genetic epidemiology and childhood cancer. Her research investigates the germline genetic underpinnings of pediatric brain tumors, particularly childhood glioma. Using a multi-ethnic California cohort, Naying studies how common and rare mutations contribute to glioma risk across diverse ancestries, advancing early risk stratification and precision prevention strategies for all children. She earned a medical degree from Shanghai Jiao Tong University and an MPH in Biostatistics from UC Los Angeles. She is committed to translating genetic discovery into earlier, more equitable care for children with cancer.

