



Lu Chen



Robert Malenka



Anthony Wagner



Rebecca Pinals



Matthew Porteus



Joseph Wu



Florentine Rutaganira



Paul Wang



Paul Bollyky



James Ford



Ravi Majeti



James Brooks



2025 Stanford Sapp Family CS Bio-X Undergraduate Summer Research Program Cohort

STANFORD SAPP FAMILY CS BIO-X UNDERGRADUATE SUMMER RESEARCH PROGRAM

Wednesday Talks:
June 26 through August 28, 2026
Talks are 12:00-1:00PM - Clark Center Auditorium
Followed by an interactive lunch between faculty and students

June 24

Lu Chen (Neurosurgery and Psychiatry & Behavioral Sciences - Interdisciplinary Brain Sciences): *Synaptic Plasticity and Memory Formation in Health and Diseases*

Robert Malenka (Psychiatry & Behavioral Sciences): *Neuroscience and Psychiatry: My 50 Year Journey*

Anthony Wagner (Psychology): *On Academic Careers*

July 1

Rebecca Pinals (Chemical Engineering): *Engineering Neuro-Models and Nano-Tools to Uncover Neurodegenerative Disease Mechanisms*

Matthew Porteus (Pediatrics - Stem Cell Transplantation): *Creating Precision Engineered Cells to Treat Rare and Common Diseases*

Joseph Wu (Medicine - Cardiovascular Medicine and Radiology): *New Approach Methodologies (NAMs): Stem Cells, Genomics, and AI for Drug Discovery*

July 8

Florentine Rutaganira (Biochemistry and Developmental Biology): *How a Unicellular Organism Can Teach Us About the Origin of Animals*

Paul Wang (Medicine - Cardiovascular Medicine): *A Career in Academics and Innovation: Change the World and Your Life by Innovating*

Paul Bollyky (Medicine - Infectious Diseases and Microbiology & Immunology): *Engineering Phage Therapy For Antibiotic Resistant Infections*

July 15

James Ford (Medicine - Oncology and Genetics): *Genetics of Hereditary Cancer Risk*

Ravi Majeti (Medicine - Hematology): *Stem Cells in Human Acute Myeloid Leukemia*

James Brooks (Urology): *Prostate Cancer, Sugar, and Immunity*

July 22

Calvin Kuo (Medicine - Hematology): *Using Organoids to Model Human Disease*

Jill Helms (Surgery - Plastic & Reconstructive Surgery): *Biomimicry in Action*

Matteo Molè (Obstetrics & Gynecology - Reproductive Biology): *Exploring Human Embryo Implantation: Paving the Way to Improve Pregnancy Outcomes*

July 29

Martha Cyert (Biology): *Discovering New Calcium-Dependent Signaling Pathways*

Ehsan Adeli (Psychiatry & Behavioral Sciences): *A Multidimensional Odyssey into the Human Mind: Building a Brain Foundation Model*

Annelise Barron (Bioengineering): *Mental Illnesses (& MS, AD, PD) Can Be Caused by Polymicrobial Infections that Weaken & Dysregulate Immunity, Leading to Neuroinflammatory Viral Reactions*

August 5

Zhenan Bao (Chemical Engineering): *Skin-Inspired Electronics for Health Sensors*

Ashwin Ramayya (Neurosurgery): *The Surprising Link Between Brain Injury and Chronic Pain*

Timothy Durazzo (Psychiatry & Behavioral Sciences): *Effects of Low-Level Alcohol Consumption on the Human Brain*

August 12

Sherri Rose (Health Policy): *Health Policy Data Science Lab*

Jonas Cremer (Biology): *Quantifying Metabolite Exchange in the Human Gut Microbiome*

Andreas Tolias (Ophthalmology): *Decoding the Brain with AI*

August 19

Siddharth Krishnan (Electrical Engineering): *Bioelectronics for Closed Loop Therapy Delivery*

Anusha Kalbasi (Radiation Oncology - Radiation Therapy): *Decoding the Language of T Cells for Cancer Immunotherapy*

Michael Zeineh (Radiology): *The Path to Advanced Neuroimaging in Neurodegenerative Disorders*

August 26

Fiona Baumer (Pediatric Neurology): *Closing the Loop: Neurostimulation, Hyperconnectivity, and Language Outcomes in Pediatric Epilepsy*

Ellen Rim (Chemical Engineering): *Plant Protein Engineering for Sustainable Agriculture*

Maya Kasowski (Pathology and Medicine - Pulmonary, Allergy & Critical Care Medicine): *Reading the Regulatory Code*



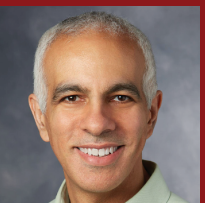
Maya Kasowski



Ellen Rim



Fiona Baumer



Michael Zeineh



Anusha Kalbasi



Siddharth Krishnan



Andreas Tolias



Jonas Cremer



Sherri Rose



Timothy Durazzo



Ashwin Ramayya



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Jill Helms



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