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Craig Levin

Sarah Heilshorn

Anca Pasca

Laramie Duncan

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Michael Howitt

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Laura Dassama

Tom Quertermous

Emmanuel Mignot

Ansuman Satpathy

Jason Andrews

Paul Bollyky



# STANFORD BIO-X UNDERGRADUATE SUMMER RESEARCH PROGRAM

Wednesday Talks:  
June 23 through August 25, 2021

Talks start at 11:30AM - via Zoom  
**CLICK TO JOIN:** [biox.stanford.edu/usrp2021facultytalks](https://biox.stanford.edu/usrp2021facultytalks)



2019 Stanford Bio-X Undergraduate Summer Research Program Cohort

June 23  
**Anna Gloyn (Pediatrics - Endocrinology & Diabetes):** *The Genetics of Diabetes: Sweet Dreams & Nightmares*  
**Craig Levin (Radiology):** *High Spatial Resolution Positron Emission Tomography (PET) Imaging Systems Under Development at Stanford*  
**Sarah Heilshorn (Materials Science & Engineering):** *Biomaterials Design for Regenerative Medicine*

June 30  
**Anca Pasca (Pediatrics - Neonatal & Developmental Medicine):** *Identification of Therapeutic Targets for Brain Injury of Prematurity*  
**Laramie Duncan (Psychiatry & Behavioral Sciences):** *Genetics and Mental Health*  
**Marlene Rabinovitch (Pediatrics - Cardiology):** *Converging Pathways Inform New Therapies for Pulmonary Arterial Hypertension*

July 7  
**Anshul Kundaje (Genetics and Computer Science):** *Deep Learning the Regulatory Code of the Human Genome*  
**Michael Howitt (Pathology and Microbiology & Immunology):** *Acquiring a Taste for Parasites: Chemosensory Tuft Cells in Shaping Intestinal Immunity*  
**Erinn Rankin (Radiation Oncology and Obstetrics & Gynecology):** *Targeting the Tumor Microenvironment in Ovarian Cancer*

July 14  
**Laura M. K. Dassama (Chemistry):** *Chemical Biology Approaches to Tackle Genetic Blood Disorders*  
**Thomas Quertermous (Medicine - Cardiovascular Medicine):** *Genetic and Genomic Approaches to Understanding Coronary Artery Disease*  
**Emmanuel Mignot (Psychiatry & Behavioral Sciences):** *Narcolepsy and the Art of Not Letting Sleeping Dogs Lie*

July 21  
**Ansuman Satpathy (Pathology):** *Cancer Immunotherapy and the Next Generation of Cancer Therapies*  
**Jason Andrews (Medicine - Infectious Diseases):** *Tracking the Emergence and Global Spread of Antimicrobial-Resistant Typhoid*  
**Paul Bollyky (Medicine - Infectious Diseases and Microbiology & Immunology):** *Bacteriophage Therapy*

July 28  
**Claudia Petritsch (Neurosurgery):** *A Journey Across Species: How Studying Cell Fate Decisions in Fly and Mice Led to a Better Understanding of Human Brain Cancer*  
**Maria Grazia Roncarolo (Pediatrics - Stem Cell Transplantation and Medicine - Blood & Marrow Transplantation):** *Genetic Engineering of T Cells for Immune Tolerance*  
**Henry C. Lee (Pediatrics - Neonatal & Developmental Medicine):** *Research and Quality Improvement to Advance Neonatal Health Equity*

August 4  
**Kari Nadeau (Medicine and Pediatrics - Allergy & Clinical Immunology):** *Signaling Pathways in the Pathogenesis and Treatment of COVID*  
**Robert M. Waymouth (Chemistry):** *New Materials for Gene Delivery: From Chemistry to Biology*  
**Boris Heifets (Anesthesiology, Perioperative & Pain Medicine):** *Deconstructing Powerful Psychotropic Drugs to Make Better Medicine*

August 11  
**Wah Chiu (Photon Science Directorate, Bioengineering, and Microbiology & Immunology):** *Seeing Molecular Machines by CryoEM*  
**William Weis (Structural Biology, Photon Science Directorate, and Molecular & Cellular Physiology):** *How Do Mechanical Forces Regulate Molecular Functions in Cells and Tissues?*  
**Katherine Ferrara (Radiology):** *Adeno Associated Viruses Deliver to Specific Organ and Cells Subsets*

August 18  
**Matthew Wheeler (Medicine - Cardiovascular Medicine):** *From One to 8 Billion: Scale and Generalizability in Human Subjects Research*  
**Casey Gifford (Pediatrics - Cardiology):** *Getting to the Heart of the Matter: Congenital Heart Disease and Complex Genetics*  
**Anthony Wagner (Psychology):** *The Cognitive Neuroscience of Remembering*

August 25  
**Stephen Quake (Bioengineering and Applied Physics):** *The Cell Is a Bag of RNA*  
**Euan Ashley (Medicine - Cardiovascular Medicine, Genetics, and Biomedical Data Science):** *Your Heart Counts*  
**Chaitan Khosla (Chemical Engineering and Chemistry):** *The Chemical Biology of Celiac Disease*



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