2026-27 MSTP Students by Year in Program

M1
Daniel Hanuska
Liyu Huang
Ji-Mi Jang
Balazs Kaszala
Kevin Li
Matthew Li
Kassia Love
Daniella Obidi
Vrishabhadev (Vrishab) Sathish Kumar
Julia Van Riel
Lucia Vilchez
Henry Zou

M2
Aditya Ailiani
Brandon Clark
Mayu Fukuda
Bilal Hamid
Spenser Johnson
David Koo
Sophia Korotev
Yifan Liao
Torsten Ullrich
Nikhil Vijai
Princeton Zhong
Jedidiah (Jed) Zhu

G1
Hamza Dahshi
Yunsun (Sunny) Eoh
Skyler Hoang
Joyce Kim
Alexander Levashkevich
Matthew Liu
Uyen Mai
Bryce Mashimo
Sophia McCloskey
Tommy Nguyen
Scout Osborne
Tzu-Ni (Mini) Sin

G2
Gustavo Borjas
Juliana Condoleo
Mahip Kalra
Alice Liu
Zachary Player
Jacob Smothers
Danielle Streever
Mahmoud Summers
Sofiya Vyshnya
Patrick Zhuang

G3
Anuoluwapo Ajao
Emily Blaum
Salvatore (Sonny) Caradonna
Andy Chen
Laura Chen
Alexander Crane
Alexander Foden
Benjamin Hauk
Inga Hwang
Kayla Klatt
Victor Pastrana-Gómez
Iris Peng
Javier Urcuyo Acevedo
David Yan

G4+
Corynn Appolonia
Henock Befekadu
Sofia Corella
Indrani Das
Himanshu Dashora
Katherine Dominic
Claire Fritz
Jacob Ingber
Paul Karell
Hans Leier
Christina MacAskill
Marc Scemama de Gialluly

G4+ continued
Brendan Sheehan
Paulameena Shultes
Stephen Wang
Douglas Wu
Ying Xiong
Jeehyun Karen You
Hannah Zamore

M3
Bijoya (Bijou) Basu
Diana Chin
Natalie Hong
Rupleen Kaur
Emily Klemm
Thomas Lavin
Katherine Letai
Kevin Newhall
Michelle Pan
Joseph Schindler
Prerna Singh
Kyle Starost

M4
Sarah Barker
Melissa Bonner
Brendan Boylan
Syrena Bracey
Razaq Durodoye
Zachary Grimmett
Natasha Ingles
Brian Kim
Erik Koritzinsky
Alexander Lesser
Benjamin Mittman
Meghan O'Keefe
Vanessa Salazar
Josephine Trichka
William Wulftange
Jesse Zhan
Walter Zhao

M1

Daniel Hanuska

MSTP Year: M1
Email: djh231@case.edu

MSTP AD: Heather Broihier
Mentor: Undecided
PhD Program: Undecided
Thesis Committee Representative: Undecided

Research Topic: Undecided

Undergrad: The City University of New York – Hunter College

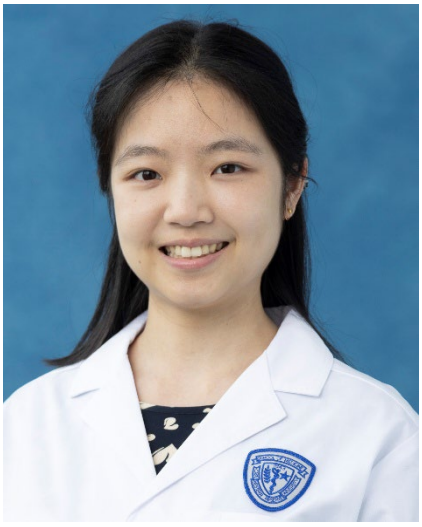
Liyu Huang

MSTP Year: M1
Email: lxh662@case.edu

MSTP AD: Chris Flask
Mentor: Undecided
PhD Program: Undecided
Thesis Committee Representative: Undecided

Research Topic: Undecided

Undergrad: Vanderbilt University



Ji-Mi Jang

MSTP Year: M1
Email: jxj919@case.edu

MSTP AD: Andrew Pieper
Mentor: Undecided
PhD Program: Undecided
Thesis Committee Representative: Undecided

Research Topic: Undecided

Undergrad: University of Rochester

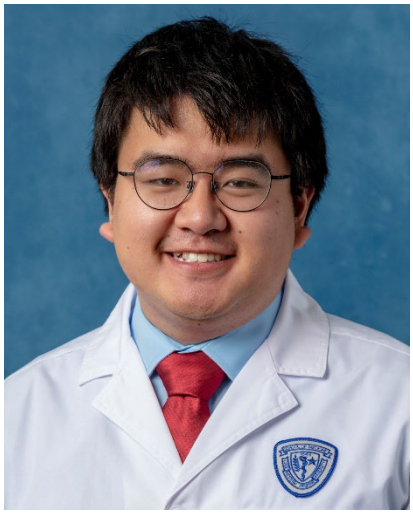
Balazs Kaszala

MSTP Year: M1
Email: bkk50@case.edu

MSTP AD: Chris Flask
Mentor: Undecided
PhD Program: Undecided
Thesis Committee Representative: Undecided

Research Topic: Undecided

Undergrad: Georgia Institute of Technology



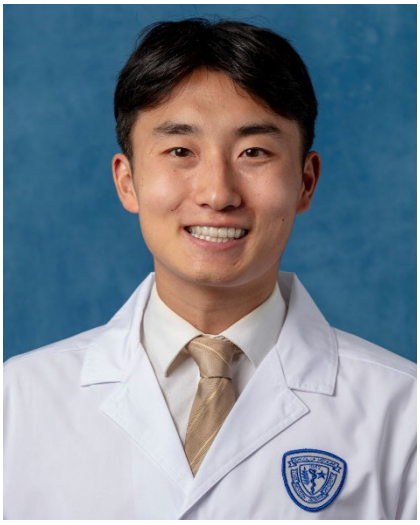
Kevin Li

MSTP Year: M1
Email: kjl109@case.edu

MSTP AD: Chris Flask
Mentor: Undecided
PhD Program: Undecided
Thesis Committee Representative: Undecided

Research Topic: Undecided

Undergrad: University of California – Los Angeles



Matthew Li

MSTP Year: M1
Email: mxl1695@case.edu

MSTP AD: Arne Rietsch
Mentor: Undecided
PhD Program: Undecided
Thesis Committee Representative: Undecided

Research Topic: Undecided

Undergrad: University of California – Los Angeles

Kassia Love

MSTP Year: M1
Email: kkl61@case.edu

MSTP AD: Kimberly McBennett
Mentor: Undecided
PhD Program: Undecided
Thesis Committee Representative: Undecided

Research Topic: Undecided

Undergrad: Harvard University

Daniella Obidi

MSTP Year: M1
Email: dxo153@case.edu

MSTP AD: Arne Rietsch
Mentor: Undecided
PhD Program: Undecided
Thesis Committee Representative: Undecided

Research Topic: Undecided

Undergrad: University of Maryland – Baltimore County

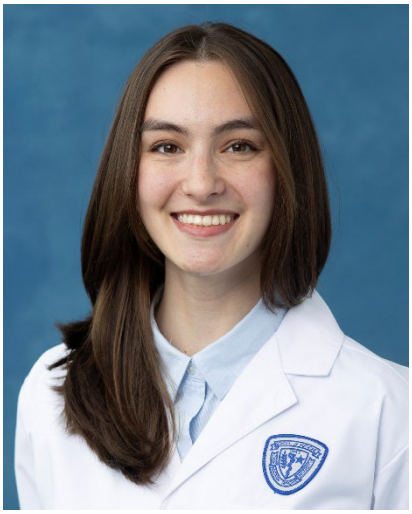
Vrishabhadev (Vrishab) Sathish Kumar

MSTP Year: M1
Email: vxs330@case.edu

MSTP AD: Heather Broihier
Mentor: Undecided
PhD Program: Undecided
Thesis Committee Representative: Undecided

Research Topic: Undecided

Undergrad: University of Washington



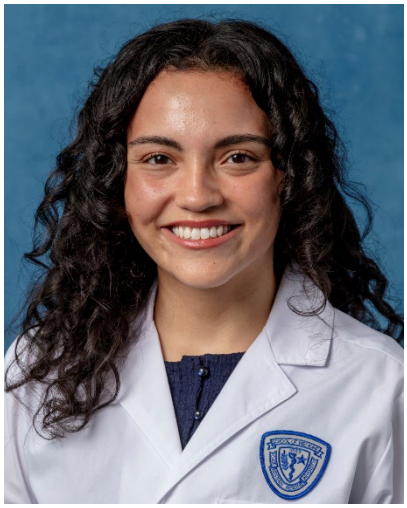
Julia Van Riel

MSTP Year: M1
Email: jav126@case.edu

MSTP AD: Arne Rietsch
Mentor: Undecided
PhD Program: Undecided
Thesis Committee Representative: Undecided

Research Topic: Undecided

Undergrad: Barnard College



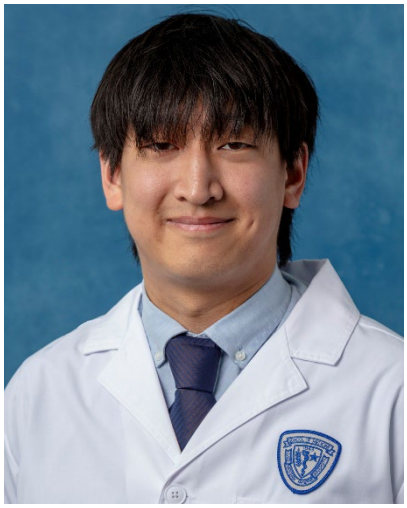
Lucia Vilchez

MSTP Year: M1
Email: liv3@case.edu

MSTP AD: Andrew Pieper
Mentor: Undecided
PhD Program: Undecided
Thesis Committee Representative: Undecided

Research Topic: Undecided

Undergrad: Fordham University



Henry Zou

MSTP Year: M1
Email: hmz21@case.edu

MSTP AD: Kimberly McBennett
Mentor: Undecided
PhD Program: Undecided
Thesis Committee Representative: Undecided

Research Topic: Undecided

Undergrad: University of Pittsburgh

M2

Aditya Ailiani

MSTP Year: M2
Email: ara93@case.edu

MSTP AD: Chris Flask
Mentor: Undecided
PhD Program: Undecided
Thesis Committee Representative: Undecided

Research Topic: Sarcomere-modifying therapies for heart failure

Undergrad: University of Wisconsin – Madison

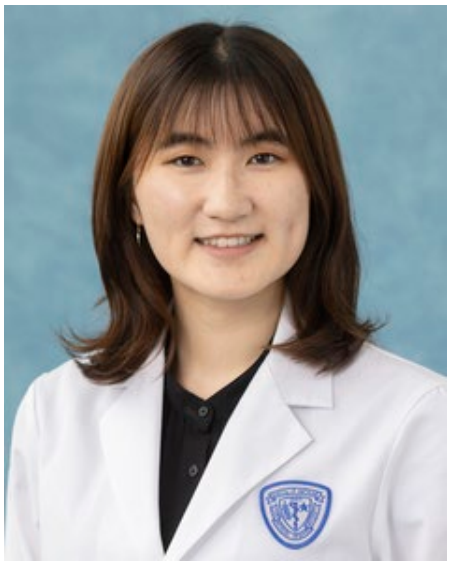
Brandon Clark

MSTP Year: M2
Email: bjc160@case.edu

MSTP AD: Andrew Pieper
Mentor: Undecided
PhD Program: Undecided
Thesis Committee Representative: Undecided

Research Topic: Undecided

Undergrad: University of Dayton



Mayu Fukuda

MSTP Year: M2
Email: mxf595@case.edu

MSTP AD: Arne Rietsch
Mentor: Undecided
PhD Program: Undecided
Thesis Committee Representative: Undecided

Research Topic: Undecided

Undergrad: The Ohio State University – Main

Bilal Hamid

MSTP Year: M2
Email: bxh538@case.edu

MSTP AD: Heather Broihier
Mentor: Undecided
PhD Program: Undecided
Thesis Committee Representative: Undecided

Research Topic: Undecided

Undergrad: University of California – Los Angeles

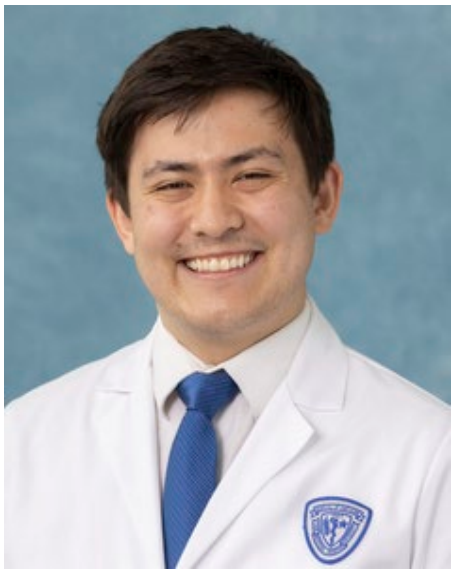
Spenser Johnson

MSTP Year: M2
Email: sxj975@case.edu

MSTP AD: Andrew Pieper
Mentor: Undecided
PhD Program: Undecided
Thesis Committee Representative: Undecided

Research Topic: Undecided

Undergrad: University of Iowa



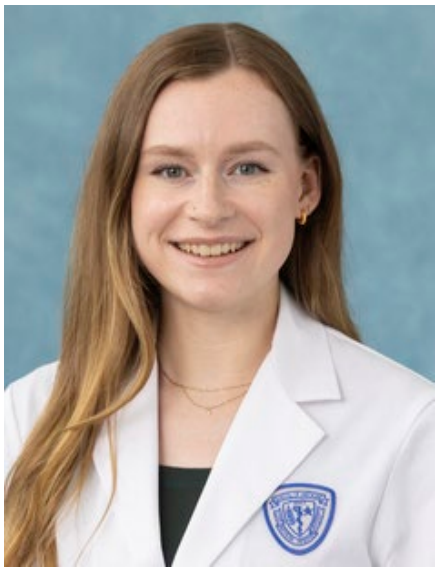
David Koo

MSTP Year: M2
Email: dak216@case.edu

MSTP AD: Heather Broihier
Mentor: Undecided
PhD Program: Undecided
Thesis Committee Representative: Undecided

Research Topic: Undecided

Undergrad: Boston College



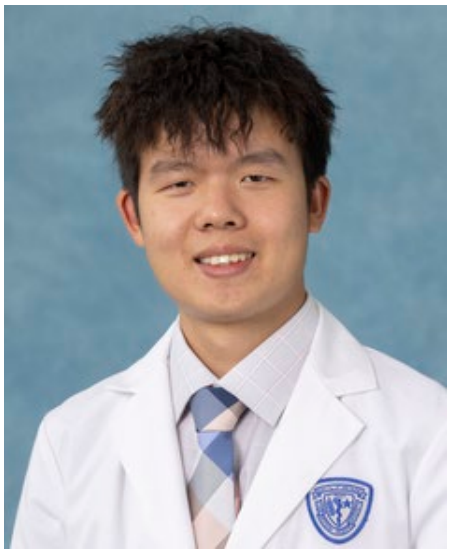
Sophia Korotev

MSTP Year: M2
Email: sck73@case.edu

MSTP AD: Arne Rietsch
Mentor: Alex Huang
PhD Program: Cell Biology
Thesis Committee Representative: Undecided

Research Topic: Undecided

Undergrad: University of Chicago



Yifan Liao

MSTP Year: M2
Email: yxl3849@case.edu

MSTP AD: Arne Rietsch
Mentor: Undecided
PhD Program: Undecided
Thesis Committee Representative: Undecided

Research Topic: Undecided

Undergrad: Northwestern University

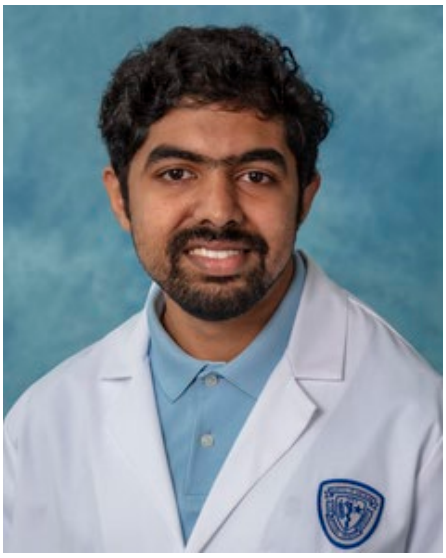
Torsten Ullrich

MSTP Year: M2
Email: tru3@case.edu

MSTP AD: Heather Broihier
Mentor: Britton Sauerbrei
PhD Program: Neurosciences
Thesis Committee Representative: Undecided

Research Topic: Pathological population neural dynamics

Undergrad: Brown University



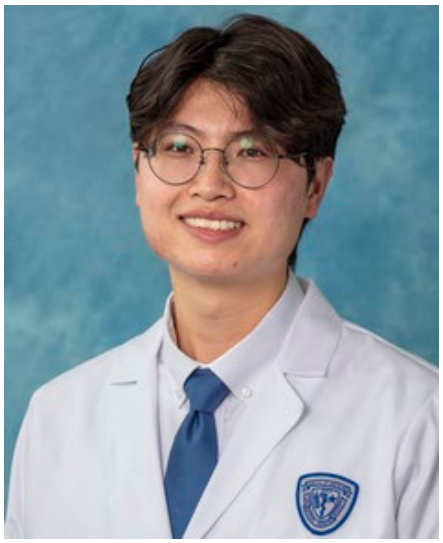
Nikhil Vijai

MSTP Year: M2
Email: nxv130@case.edu

MSTP AD: Chris Flask
Mentor: Undecided
PhD Program: Undecided
Thesis Committee Representative: Undecided

Research Topic: Undecided

Undergrad: University of Notre Dame



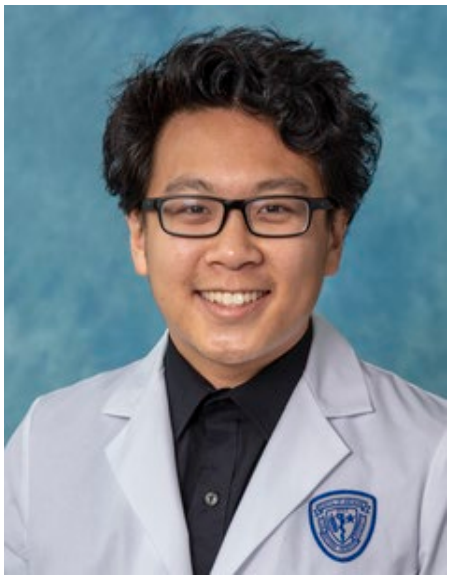
Princeton Zhong

MSTP Year: M2
Email: pxz246@case.edu

MSTP AD: Andrew Pieper
Mentor: Undecided
PhD Program: Undecided
Thesis Committee Representative: Undecided

Research Topic: Undecided

Undergrad: University of California - Davis



Jedidiah (Jed) Zhu

MSTP Year: M2
Email: jzz18@case.edu

MSTP AD: Chris Flask
Mentor: Undecided
PhD Program: Undecided
Thesis Committee Representative: Undecided

Research Topic: Undecided

Undergrad: Emory University

G1

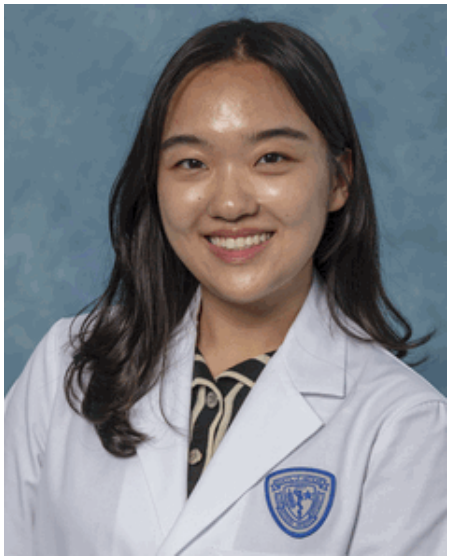
Hamza Dahshi

MSTP Year: G1
Email: hxd327@case.edu

MSTP AD: Arne Rietsch
Mentor: Laura Nagy
PhD Program: Systems Biology & Bioinformatics
Thesis Committee Representative: Undecided

Research Topic: Urinary proteomics in patients with severe alcoholic hepatitis

Undergrad: University of Texas at Dallas

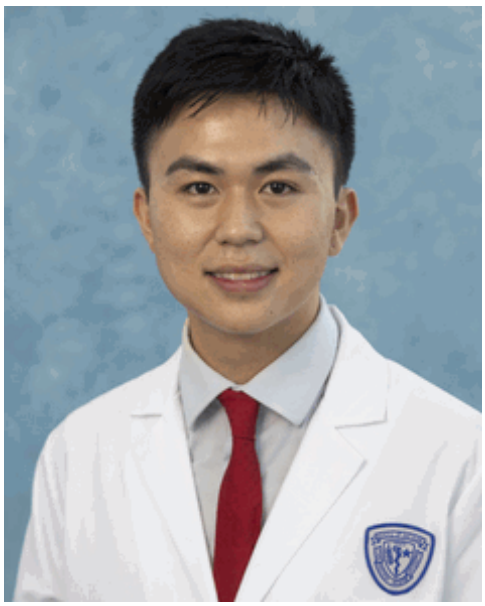


Yunsun (Sunny) Eoh

MSTP Year: G1
Email: yxe39@case.edu

MSTP AD: Heather Broihier
Mentor: Marissa Scavuzzo
PhD Program: Genetics & Genome Sciences
Thesis Committee Representative: Undecided
Research Topic: Undecided

Undergrad: University of Southern California



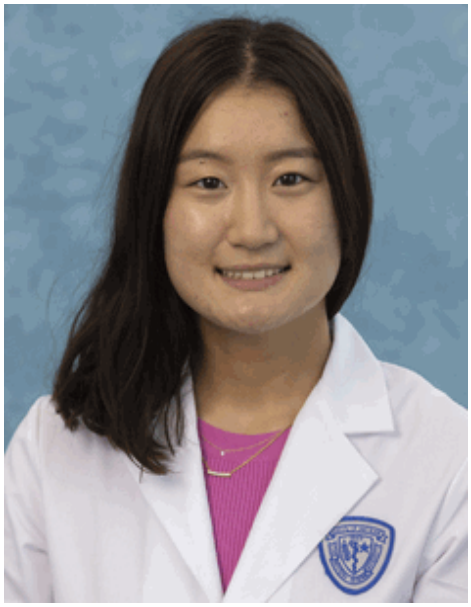
Skyler Hoang

MSTP Year: G1
Email: hhh38@case.edu

MSTP AD: Heather Broihier
Mentor: Sudha Iyengar
PhD Program: Systems Biology & Bioinformatics
Thesis Committee Representative: Catherine Stein

Research Topic: Retrotransposon variation and its role in complex disease: leveraging long-read sequencing, pangenome approaches, and biobank-scale data to characterize mobile element insertions, link them to disease-relevant phenotypes, and define their functional consequences through transcriptomic integration

Undergrad: Rutgers University – New Brunswick



Joyce Kim

MSTP Year: G1
Email: jhk164@case.edu

MSTP AD: Arne Rietsch
Mentor: Marilia Cascalho
PhD Program: Pharmacology
Thesis Committee Representative: David Wald

Research Topic: Undecided

Undergrad: Claremont McKenna College

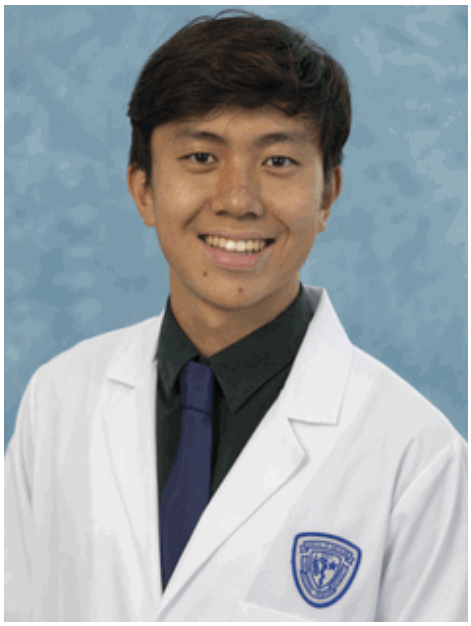
Alexander Levashkevich

MSTP Year: G1
Email: aal127@case.edu

MSTP AD: Chris Flask
Mentor: Yan Li
PhD Program: Genetics & Genome Sciences
Thesis Committee Representative: Undecided

Research Topic: Undecided

Undergrad: University of Michigan – Ann Arbor



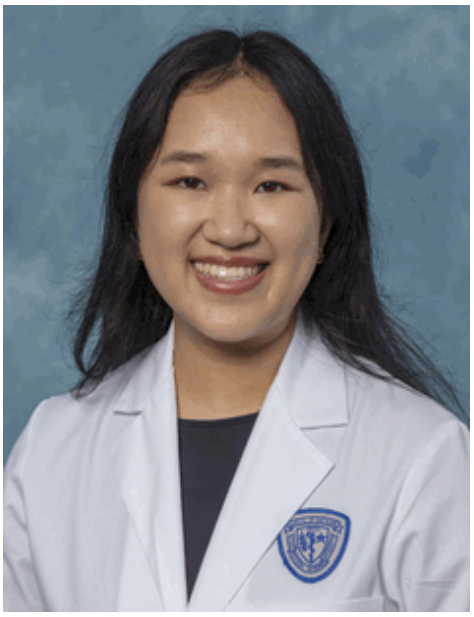
Matthew Liu

MSTP Year: G1
Email: mhl104@case.edu

MSTP AD: Heather Broihier
Mentor: William Bush
PhD Program: Systems Biology & Bioinformatics
Thesis Committee Representative: Andrew Pieper

Research Topic: Chronic systemic inflammation in Alzheimer's Disease

Undergrad: University of Pennsylvania



Uyen Mai

MSTP Year: G1
Email: utm@case.edu

MSTP AD: Chris Flask
Mentor: Erika Trapl
PhD Program: Clinical Translational Science
Thesis Committee Representative: Chris Flask

Research Topic: Implementation Science, Behavioral Epidemiology, Cancer Prevention

Undergrad: University of California – Irvine

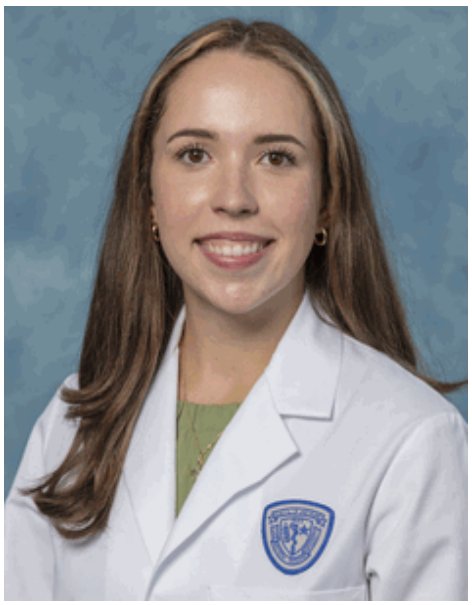
Bryce Mashimo

MSTP Year: G1
Email: blm132@case.edu

MSTP AD: Andrew Pieper
Mentor: Tyler Miller
PhD Program: Pathology
Thesis Committee Representative: Undecided

Research Topic: Undecided

Undergrad: Boston University



Sophia McCloskey

MSTP Year: G1
Email: stg57@case.edu

MSTP AD: Andrew Pieper
Mentor: Parameswaran Ramakrishnan
PhD Program: Pathology/Cancer Biology
Thesis Committee Representative: Undecided

Research Topic: Investigating the role of the hexosamine biosynthetic pathway and the post-translational modification, O-GlcNAcylation, in acute myeloid leukemia

Undergrad: University of Georgia

Tommy Nguyen

MSTP Year: G1
Email: thn40@case.edu

MSTP AD: Andrew Pieper
Mentor: Andrew Dhawan
PhD Program: Pharmacology
Thesis Committee Representative: Undecided

Research Topic: Undecided

Undergrad: University of Pennsylvania

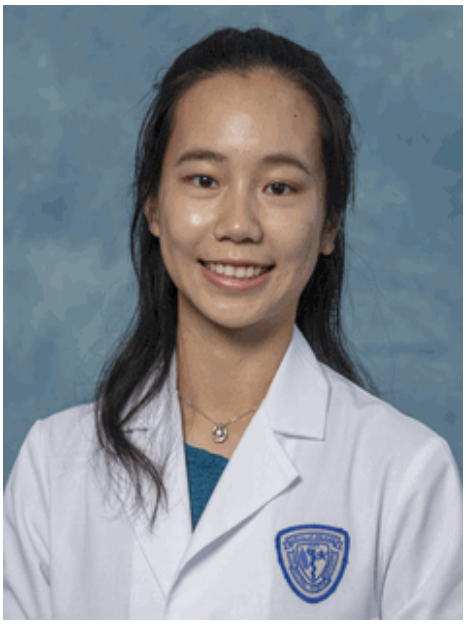
Scout Osborne

MSTP Year: G1
Email: smo64@case.edu

MSTP AD: Chris Flask
Mentor: Christina Farr
PhD Program: Molecular Biology & Microbiology
Thesis Committee Representative: Undecided

Research Topic: Urogenital microbiome

Undergrad: Oregon State University



Tzu-Ni (Mini) Sin

MSTP Year: G1
Email: txs871@case.edu

MSTP AD: Arne Rietsch
Mentor: Bela Anand-Apte
PhD Program: Pharmacology
Thesis Committee Representative: Undecided

Research Topic: The effect of blood glucose and insulin level on the impact of pathogenesis of diabetic retinopathy

Undergrad: University of California – Davis

G2

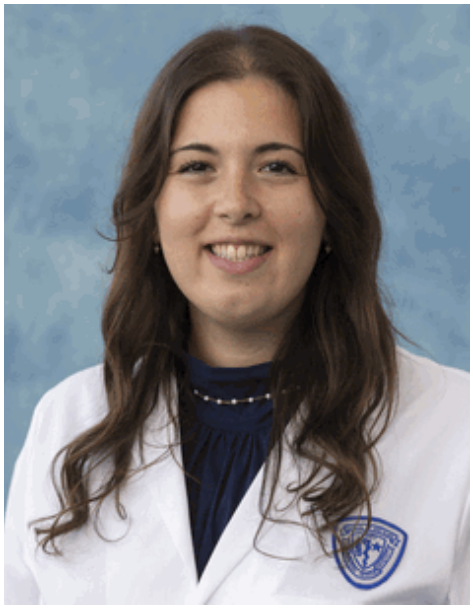
Gustavo Borjas

MSTP Year: G2
Email: gjb89@case.edu

MSTP AD: Arne Riestch
Mentor: John Letterio
PhD Program: Pathology/Immunology
Thesis Committee Representative: Alex Huang

Research Topic: Activation of Nrf2 in APCs to attenuate autoimmune disease

Undergrad: Emory University



Juliana Condoleo

MSTP Year: G2
Email: jmc406@case.edu

MSTP AD: Heather Broihier
Mentor: Sudha Chakrapani
PhD Program: Pharmacology
Thesis Committee Representative: Andrew Pieper

Research Topic: Insight to positive allosteric modulators of alpha3 glycine receptors for potential pain therapeutics

Undergrad: Johns Hopkins University

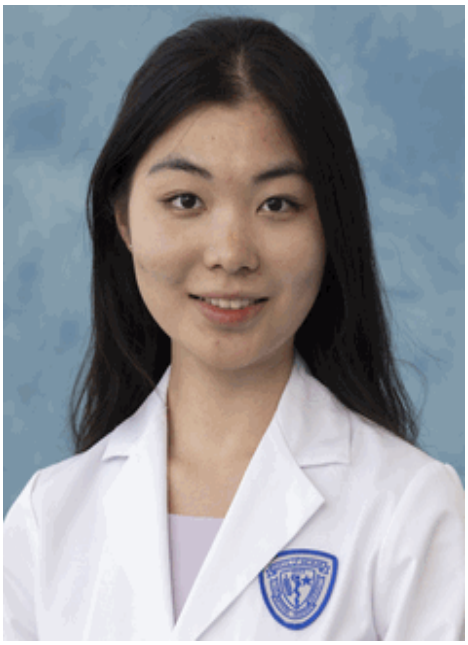
Mahip Kalra

MSTP Year: G2
Email: mxk934@case.edu

MSTP AD: Chris Flask
Mentor: Johannes von Lintig
PhD Program: Pharmacology
Thesis Committee Representative: Xin Qi

Research Topic: Carotenoid Trafficking and Metabolism in the Retina

Undergrad: Vanderbilt University



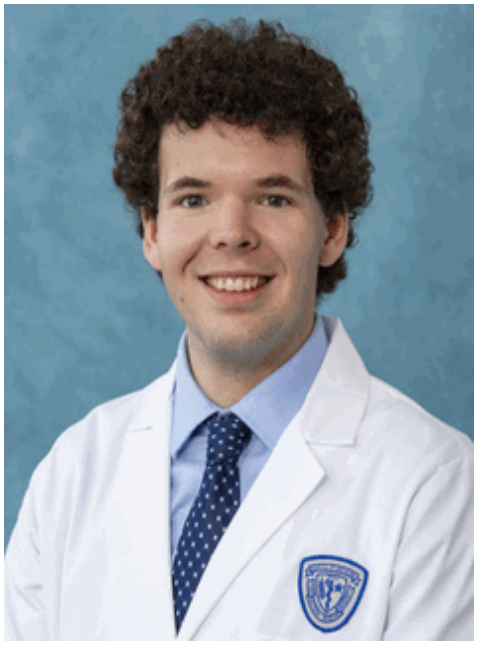
Alice Liu

MSTP Year: G2
Email: asl107@case.edu

MSTP AD: Arne Rietsch
Mentor: Bela Anand-Apte
PhD Program: Pharmacology
Thesis Committee Representative: Arne Rietsch

Research Topic: Retinal microvascular basement membrane stiffness modulates inner blood retinal barrier integrity in diabetic retinopathy

Undergrad: University of Illinois at Chicago



Zachary Player

MSTP Year: G2
Email: zep7@case.edu

MSTP AD: Chris Flask
Mentor: Christopher Nguyen
PhD Program: Biomedical Engineering
Thesis Committee Representative: Chris Flask

Research Topic: Cardiac diffusion MRI

Undergrad: University of Florida

Jacob Smothers

MSTP Year: G2
Email: jbs211@case.edu

MSTP AD: Heather Broihier
Mentor: Chris Flask
PhD Program: Biomedical Engineering
Thesis Committee Representative: Agata Exner

Research Topic: Undecided

Undergrad: West Virginia University

Danielle Streever

MSTP Year: G2
Email: dls179@case.edu

MSTP AD: Chris Flask
Mentor: Andrei Maiseyeu
PhD Program: Biomedical Engineering
Thesis Committee Representative: Christopher Nguyen

Research Topic: Nanoparticle synthesis optimization with ML

Undergrad: Cornell University

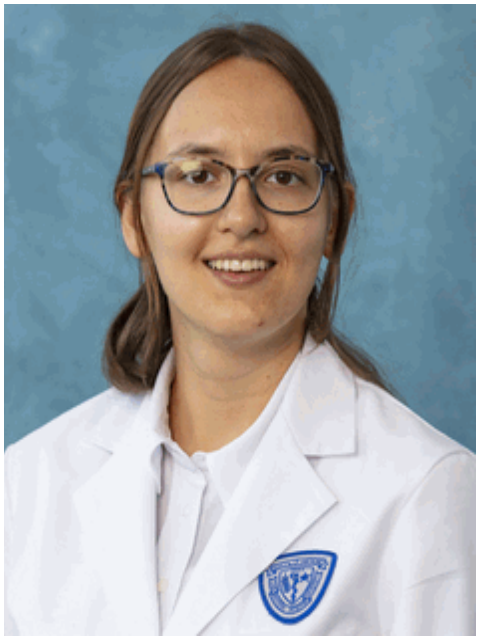
Mahmoud Summers

MSTP Year: G2
Email: mxs1418@case.edu

MSTP AD: Chris Flask
Mentor: Timothy Chan
PhD Program: Pathology/Immunology
Thesis Committee Representative: Jennifer Yu

Research Topic: Immunotherapy, precision immuno-oncology

Undergrad: Johns Hopkins University



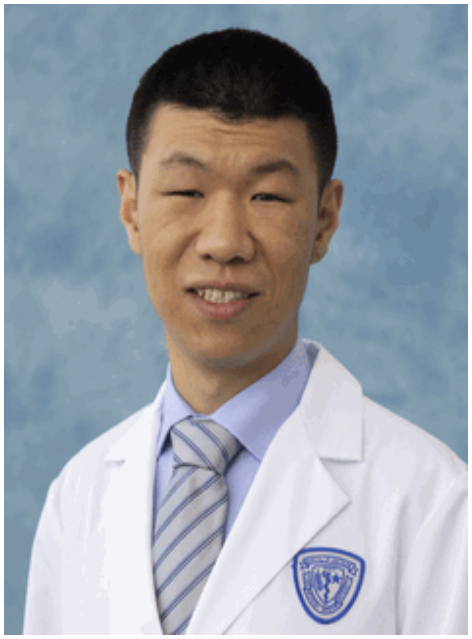
Sofiya Vyshnya

MSTP Year: G2
Email: sxv274@case.edu

MSTP AD: Chris Flask
Mentors: Sathish Viswanath and Michael Jenkins
PhD Program: Biomedical Engineering
Thesis Committee Representative: Christopher Nguyen

Research Topic: Developing an artificial intelligence (AI) framework for predicting treatment response in rectal cancer leveraging multimodal medical imaging data (MRI, histology) and gene expression data

Undergrad: Georgia Institute of Technology



Patrick Zhuang

MSTP Year: G2
Email: pxz223@case.edu

MSTP AD: Andrew Pieper
Mentor: Drew Adams
PhD Program: Pharmacology
Thesis Committee Representative: Jennifer Yu

Research Topic: Characterization of 96505 as the first inhibitor of 3-dehydrosphinganine reductase (KDSR)

Undergrad: Williams College

G3

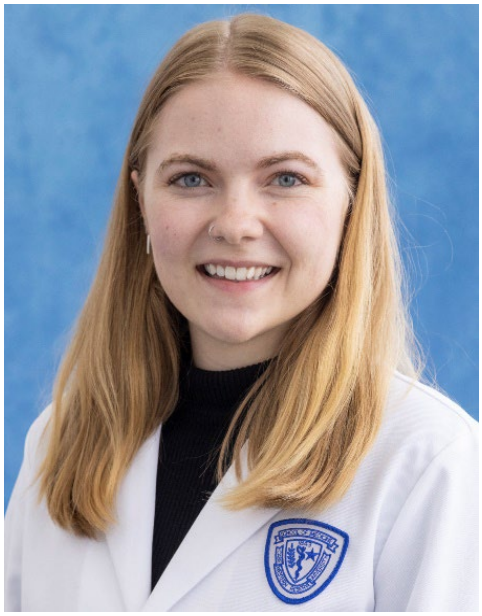
Anuoluwapo Ajao

MSTP Year: G3
Email: axa1581@case.edu

MSTP AD: Arne Rietsch
Mentor: Roberto Vargas
PhD Program: Pathology/Cancer Biology
Thesis Committee Representative: Fredrick Schumacher

Research Topic: Validation of Radiosensitivity Index (RSI) signature in cervical cancer

Undergrad: University of Massachusetts – Boston



Emily Blaum

MSTP Year: G3
Email: emb190@case.edu

MSTP AD: Arne Rietsch
Mentor: Neetu Gupta
PhD Program: Pathology/Immunology
Thesis Committee Representative: Alex Huang

Research Topic: The role of ursodeoxycholic acid in mediating antitumor responses in CD19-directed CAR T-cell therapy

Undergrad: Boston University

Salvatore (Sonny) Caradonna

MSTP Year: G3
Email: sgc48@case.edu

MSTP AD: Heather Broihier
Mentor: Andrew Pieper
PhD Program: Pathology/Molecular & Cellular Basis of Disease
Thesis Committee Representative: Heather Broihier

Research Topic: Mechanistic insights into impaired cognition resulting from cereblon deficiency

Undergrad: The Ohio State University

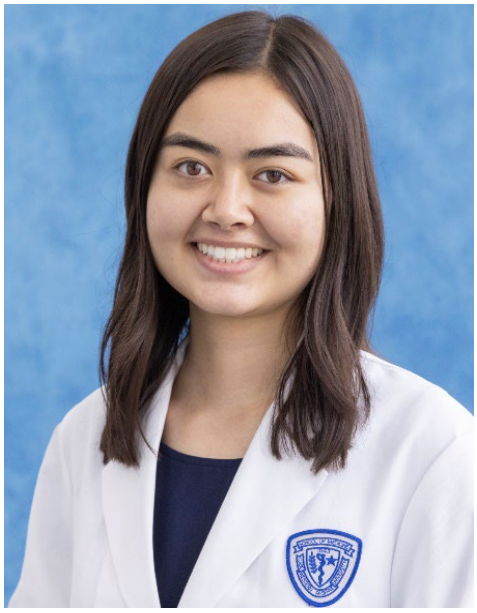
Andy Chen

MSTP Year: G3
Email: axc1267@case.edu

MSTP AD: Andrew Pieper
Mentor: Jennifer Yu
PhD Program: Genetics & Genome Sciences
Thesis Committee Representative: Andrew Pieper

Research Topic: Electrical-activity dependent mechanisms underlie cell state plasticity in glioblastoma

Undergrad: Emory University



Laura Chen

MSTP Year: G3
Email: lxc732@case.edu

MSTP AD: Andrew Pieper
Mentor: Agata Exner
PhD Program: Biomedical Engineering
Thesis Committee Representative: Andrew Pieper

Research Topic: Gas-core cationic nanobubbles for ultrasound-mediated gene therapy

Undergrad: Massachusetts Institute of Technology

Alexander Crane

MSTP Year: G3
Email: ajc406@case.edu

MSTP AD: Heather Broihier
Mentor: Tyler Miller
PhD Program: Systems Biology & Bioinformatics
Thesis Committee Representative: David Wald

Research Topic: Identifying regulatory mechanisms of a GBM-specific immunosuppressive myeloid cell population

Undergrad: University of Pennsylvania

Alexander Foden

MSTP Year: G3
Email: ajf176@case.edu

MSTP AD: Andrew Pieper
Mentor: Heather Broihier
PhD Program: Neurosciences
Thesis Committee Representative: Alex Huang

Research Topic: Glial chemokine-like protein Orion is required for axonal clearance following Wallerian degeneration in adult paradigm

Undergrad: University of California – Irvine

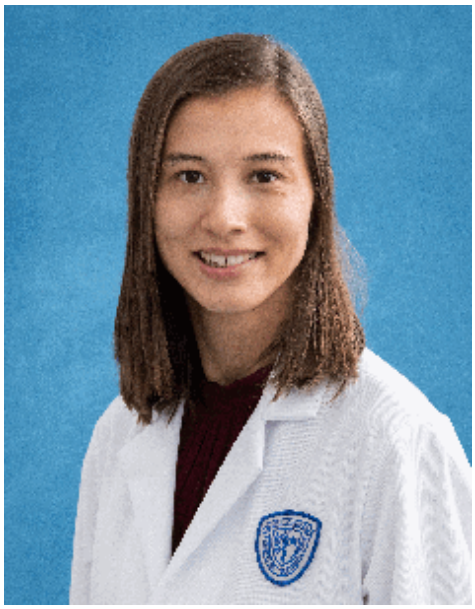
Benjamin Hauk

MSTP Year: G3
Email: bxh462@case.edu

MSTP AD: Chris Flask
Mentor: Corey Speers
PhD Program: Pathology/Cancer Biology
Thesis Committee Representative: David Wald

Research Topic: Multiomic insights into mechanisms of androgen receptor-driven radioresistance in triple-negative breast cancer

Undergrad: College of William & Mary



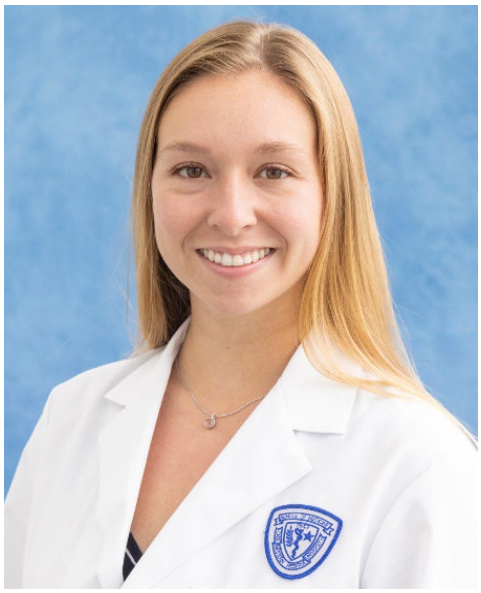
Inga Hwang

MSTP Year: G3
Email: imh38@case.edu

MSTP AD: Chris Flask
Mentor: Efstathios Karathanasis
PhD Program: Biomedical Engineering
Thesis Committee Representative: Alex Huang

Research Topic: Drug-free reprogramming of the tumor microenvironment using therapeutic ultrasound and nanobubbles

Undergrad: University of California – Los Angeles



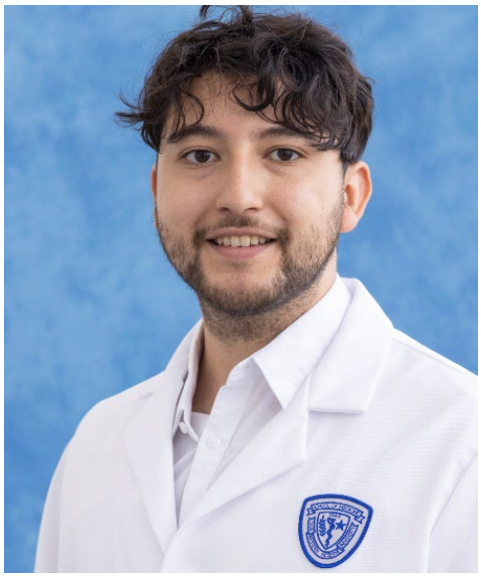
Kayla Klatt

MSTP Year: G3
Email: krk110@case.edu

MSTP AD: Chris Flask
Mentor: Reshmi Parameswaran
PhD Program: Pathology/Immunology
Thesis Committee Representative: Alex Huang

Research Topic: Investigating Trypsin 2 as a regulator of IFN-γ-dependent immune effector responses

Undergrad: Johns Hopkins University



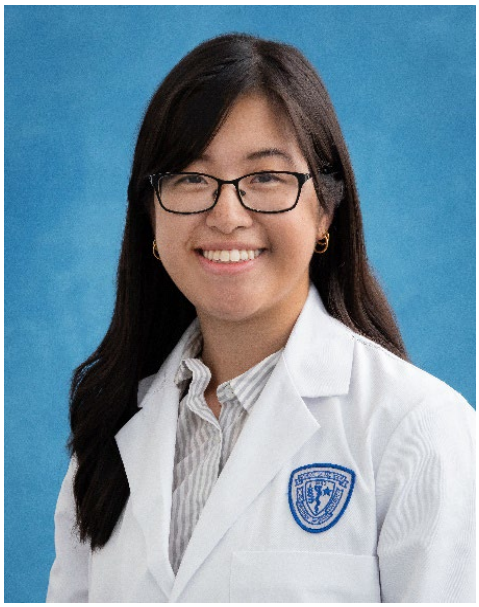
Victor Pastrana-Gómez

MSTP Year: G3
Email: vmp46@case.edu

MSTP AD: Chris Flask
Mentor: Agata Exner
PhD Program: Biomedical Engineering
Thesis Committee Representative: David Wald

Research Topic: Nanobubble footprinting for predicting nanotherapeutic distribution and efficacy via molecular imaging

Undergrad: University of Illinois at Urbana-Champaign



Iris Peng

MSTP Year: G3
Email: ixp94@case.edu

MSTP AD: Heather Broihier
Mentor: Allison Kraus
PhD Program: Pathology/Molecular and Cellular Basis of Disease
Thesis Committee Representative: Andrew Pieper

Research Topic: Brain microenvironment of tau seeds in the absence of neurodegeneration pathology

Undergrad: Brown University

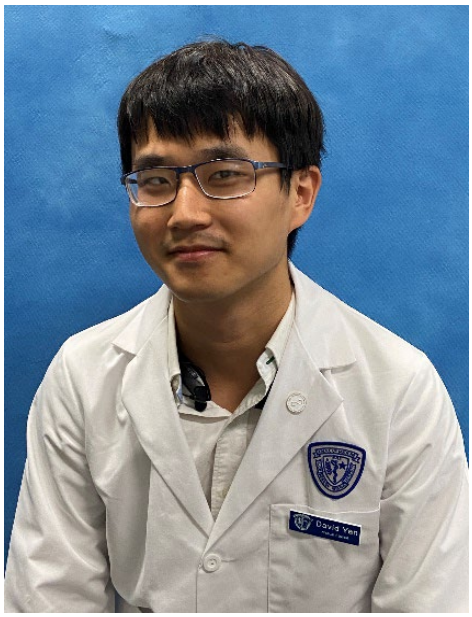
Javier Urcuyo Acevedo

MSTP Year: G3
Email: jcu7@case.edu

MSTP AD : Heather Broihier
Mentor: Alex Huang
PhD Program: Pathology/Cancer Biology
Thesis Committee Representative: Heather Broihier

Research Topic: CDK5 disruption reprograms medulloblastoma and enhanced immunogenicity

Undergrad: Arizona State University



David Yan

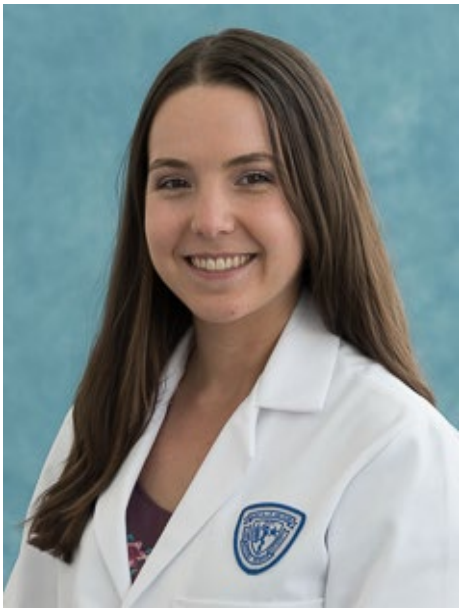
MSTP Year: G3
Email: dfy3@case.edu

MSTP AD: Arne Rietsch
Mentor: Drew Adams
PhD Program: Genetics & Genome Sciences
Thesis Committee Representative: Paul Tesar

Research Topic: Characterization of two separate classes of Exportin-1 targeting molecules to develop the next generation of anti-inflammatory therapies

Undergrad: Case Western Reserve University

G4+



Corynn Appolonia

MSTP Year: G4+
Email: cna24@case.edu
MSTP AD: Chris Flask
Mentor: Parameswaran Ramakrishnan
PhD Program: Pathology/Immunology
Thesis Committee Representative: Alex Huang

Research Topic: Novel therapeutic targets and models for type 1 diabetes and diabetic complications

Undergrad: University of Pittsburgh

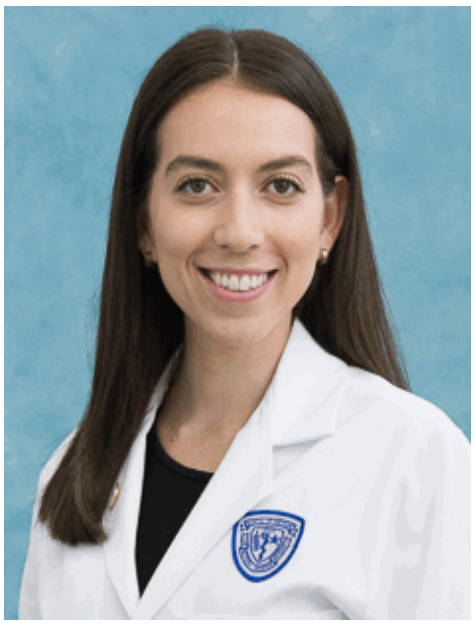
Henock Befekadu

MSTP Year: G4+
Email: hbb34@case.edu

MSTP AD: Heather Broihier
Mentor: Sudha Chakrapani
PhD Program: Physiology & Biophysics
Thesis Committee Representative: Drew Adams

Research Topic: Structural and functional basis of 5HT3R modulation by antidepressants

Undergrad: Carleton College



Sofia Corella

MSTP Year: G4+
Email: sgc65@case.edu

MSTP AD: Heather Broihier
Mentor: Andrew Pieper
PhD Program: Pathology/Molecular & Cellular Basis of Disease
Thesis Committee Representative: Heather Broihier

Research Topic: The influence of traumatic brain injury on the hematopoietic system

Undergrad: University of North Carolina – Chapel Hill

Indrani Das

MSTP Year: G4+
Email: ixd63@case.edu
MSTP AD: Andrew Pieper
Mentor: David Wald
PhD Program: Pathology/Immunology
Thesis Committee Representative: Reshmi Parameswaran

Research Topic: Secretory iRGD-enhanced CAR-T therapy for solid tumors

Undergrad: Harvard University

Himanshu Dashora

MSTP Year: G4+
Email: hrd14@case.edu

MSTP AD: Arne Rietsch
Mentor: Jennifer Yu
PhD Program: Pathology/Cancer Biology
Thesis Committee Representative: Alex Huang

Research Topic: SMARCA5 inhibition for glioblastoma differentiation therapy

Undergrad: Johns Hopkins University

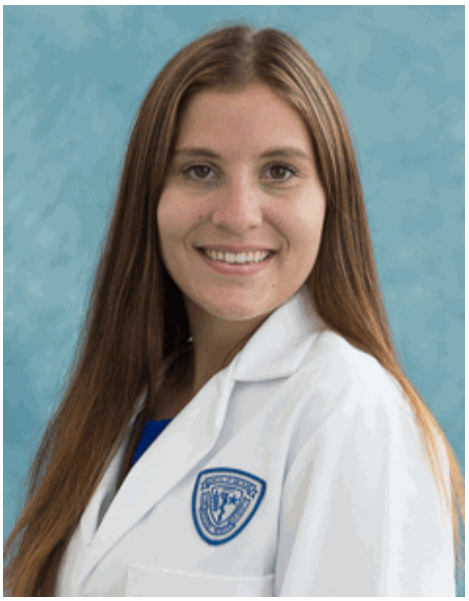
Katherine Dominic

MSTP Year: G4+
Email: kld85@case.edu

MSTP AD: Andrew Pieper
Mentor: Julian Stelzer
PhD Program: Physiology & Biophysics
Thesis Committee Representative: Xin Qi

Research Topic: Developing custom engineered cardiac myosin binding protein C to treat diastolic dysfunction

Undergrad: University of California – Berkeley



Claire Fritz

MSTP Year: G4+
Email: cef78@case.edu

MSTP AD: Andrew Pieper
Mentor: Reshmi Parameswaran
PhD Program: Pathology/Cancer Biology
Thesis Committee Representative: David Wald

Research Topic: Investigating the role of B-cell activating factor in CAR-T cell-associated adverse events

Undergrad: Case Western Reserve University

Jacob Ingber

MSTP Year: G4+
Email: jji20@case.edu

MSTP AD: Arne Rietsch
Mentor: Robert Fairchild
PhD Program: Pathology/Immunology
Thesis Committee Representative: Alan Levine

Research Topic: The role of dual TCR T cells in heterologous alloimmunity

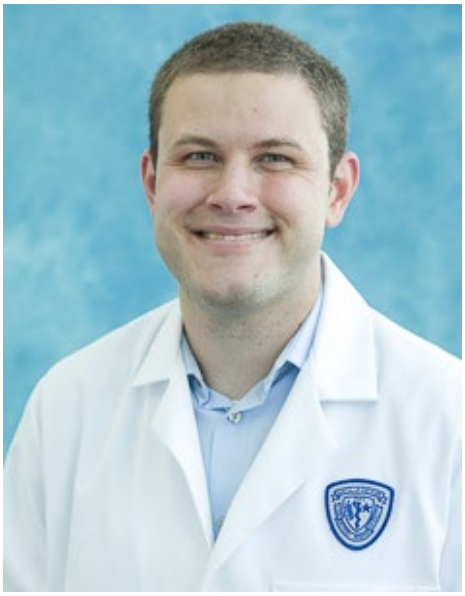
Undergrad: Washington and Lee University

Paul Karell

MSTP Year: G4+
Email: pek35@case.edu

MSTP AD: Chris Flask
Mentor: Thaddeus Stappenbeck
PhD Program: Pathology/Immunology
Thesis Committee Representative: Robert Fairchild
Research Topic: Carbohydrate malabsorption as a potential mechanism underlying selective IgA deficiency

Undergrad: University of Pittsburgh



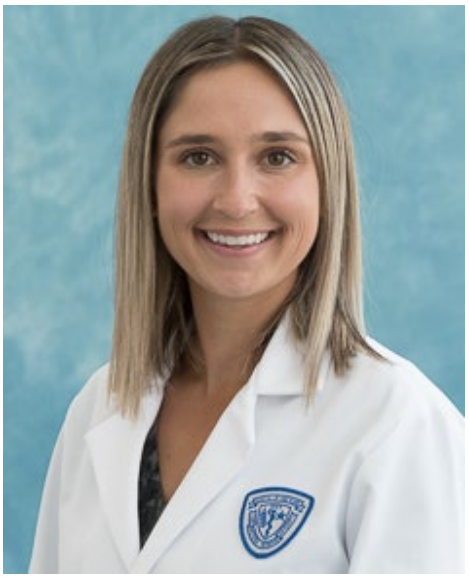
Hans Leier

MSTP Year: G4+
Email: hcl25@case.edu

MSTP AD: Andrew Pieper
Mentor: Heather Broihier
PhD Program: Neurosciences
Thesis Committee Representative: Polyxeni Philippidou

Research Topic: A forward genetic screen for regulators of experience-dependent glial pruning

Undergrad: Reed College



Christina MacAskill

MSTP Year: G4+
Email: cjm191@case.edu

MSTP AD: Arne Rietsch
Mentor: Chris Flask
PhD Program: Biomedical Engineering
Thesis Committee Representative: Derek Taylor

Research Topic: Dynamic contrast enhanced - magnetic resonance fingerprinting (DCE-MRF): A new quantitative MRI method to reliably assess tumor vascular perfusion

Undergrad: Case Western Reserve University

Marc Scemama de Gialluly

MSTP Year: G4+
Email: mas608@case.edu

MSTP AD: Heather Broihier
Mentor: Drew Adams
PhD Program: Pathology/Cancer Biology
Thesis Committee Representative: Reshmi Parameswaran

Research Topic: Elaboration of molecular glues that target TRIM21 into TRIMTACs that degrade protein aggregates

Undergrad: University of Richmond

Brendan Sheehan

MSTP Year: G4+
Email: bks60@case.edu

MSTP AD: Heather Broihier
Mentor: Derek Taylor
PhD Program: Pharmacology
Thesis Committee Representative: Ashleigh Schaffer

Research Topic: Teloanalyzer: A new approach to telomere sequence analysis

Undergrad: Oberlin College

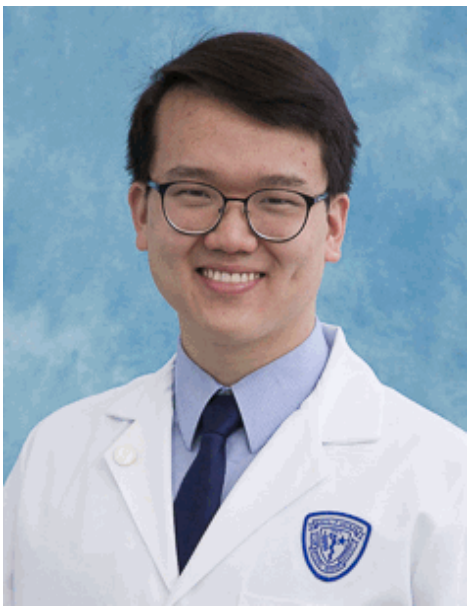
Paulameena Shultes

MSTP Year: G4+
Email: pvs13@case.edu

MSTP AD: Arne Rietsch
Mentor: Jacob Scott
PhD Program: Systems Biology & Bioinformatics
Thesis Committee Representative: Dave Lodowksi

Research Topic: Deriving genomic signatures of cell-cell fusion in cancer and investigating the role of fusion in evolution of treatment resistance

Undergrad: University of California - Berkeley



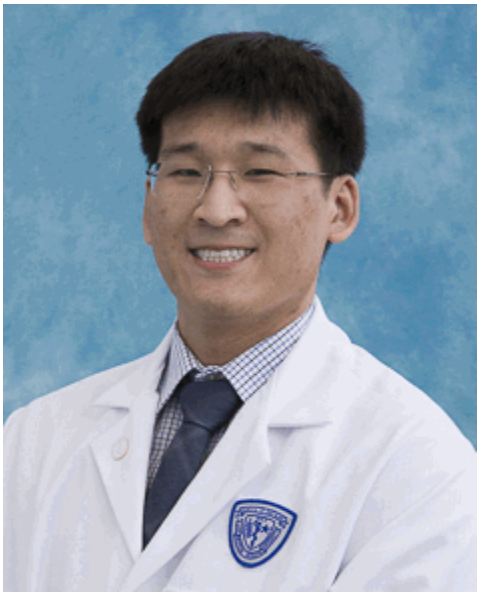
Stephen Wang

MSTP Year: G4+
Email: slw105@case.edu

MSTP AD: Heather Broihier
Mentor: Timothy Chan
PhD Program: Genetics & Genome Sciences
Thesis Committee Representative: Alex Huang

Research Topic: Engineering T cell immunity against key mutations in lung cancer

Undergrad: Yale University



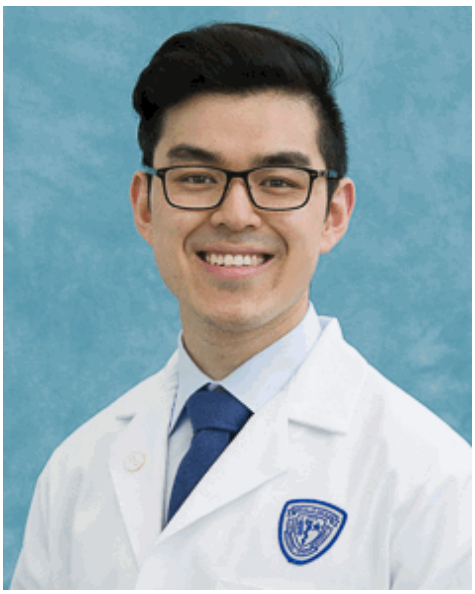
Douglas Wu

MSTP Year: G4+
Email: dhw45@case.edu

MSTP AD: Heather Broihier
Mentor: Samuel Senyo
PhD Program: Biomedical Engineering
Thesis Committee Representative: Agata Exner

Research Topic: Development of cardiac matrix-derived particle delivery systems

Undergrad: University of Michigan



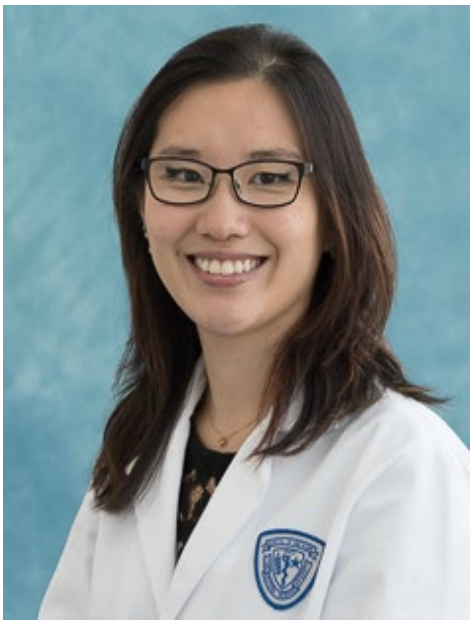
Ying Xiong

MSTP Year: G4+
Email: yxx685@case.edu

MSTP AD: Arne Rietsch
Mentor: Paul Tesar
PhD Program: Genetics & Genome Sciences
Thesis Committee Representative: Drew Adams

Research Topic: Pathological inflammation alters oligodendrocyte differentiation and function

Undergrad: University of Pennsylvania



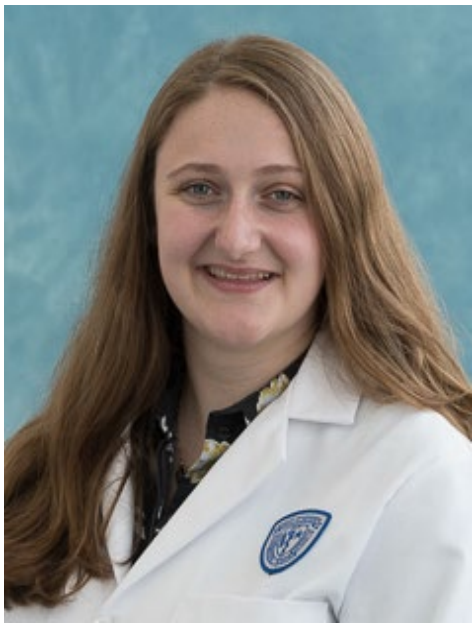
Jeehyun Karen You

MSTP Year: G4+
Email: jxy953@case.edu

MSTP AD: Arne Rietsch
Mentor: Jonathan Stamler
PhD Program: Biochemistry
Thesis Committee Representative: Andrew Pieper

Research Topic: Investigating the basis of specificity in redox signaling

Undergrad: SUNY Stony Brook



Hannah Zamore

MSTP Year: G4+
Email: hhz4@case.edu

MSTP AD: Andrew Pieper
Mentor: Allison Kraus
PhD Program: Pathology/Molecular & Cellular Basis of Disease
Thesis Committee Representative: Heather Broihier

Research Topic: Lewy Body and Alzheimer's Disease mixed proteopathies demonstrate a unique profile of phosphor-synuclein and tau modification

Undergrad: Bryn Mawr College

M3

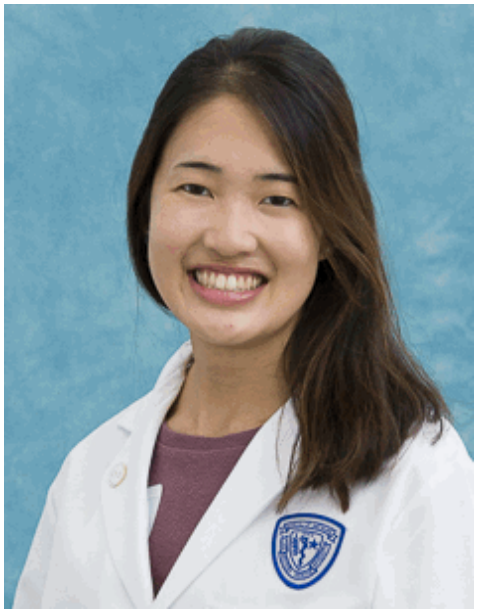
Bijoya (Bijou) Basu

MSTP Year: M3
Email: bxb424@case.edu

MSTP AD: Heather Broihier
Mentor: Atul Chopra
PhD Program: Genetics & Genome Sciences
Thesis Committee Representative: Drew Adams

Research Topic: The role of asprosin in anxiety-like behavior

Undergrad: Washington University in St. Louis



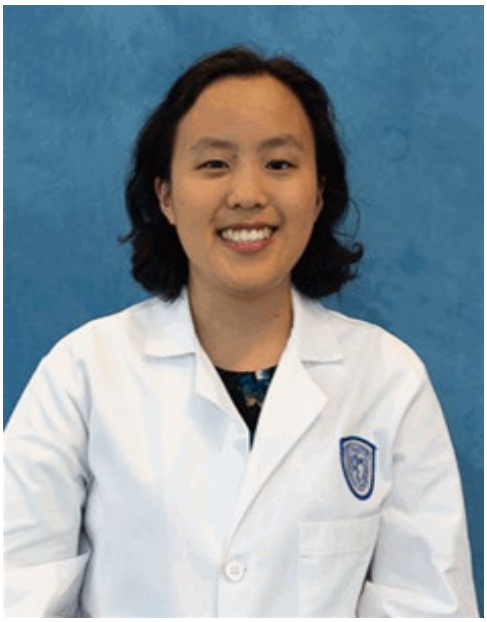
Diana Chin

MSTP Year: M3
Email: dhc64@case.edu

MSTP AD: Arne Rietsch
Mentor: Berkley Gryder
PhD Program: Genetics & Genome Sciences
Thesis Committee Representative: Paul Tesar

Research Topic: RUNX2 drives 3D epigenetic landscape of osteosarcoma

Undergrad: Princeton University



Natalie Hong

MSTP Year: M3
Email: neh47@case.edu

MSTP AD: Chris Flask
Mentor: Andrei Maiseyeu
PhD Program: Biomedical Engineering
Thesis Committee Representative: Drew Adams

Research Topic: Immunonanoparticles for simultaneous modulation of inflammation and lipids

Undergrad: Carnegie Mellon University

Rupleen Kaur

MSTP Year: M3
Email: rxk614@case.edu

MSTP AD: Heather Broihier
Mentor: Andrew Dhawan
PhD Program: Systems Biology & Bioinformatics
Thesis Committee Representative: David Lodowski

Research Topic: Tumor-driven microenvironmental reprogramming in brain metastases

Undergrad: University of California – Davis

Emily Klemm

MSTP Year: M3
Email: emk147@case.edu

MSTP AD: Chris Flask
Mentor: Sudha Chakrapani
PhD Program: Physiology & Biophysics
Thesis Committee Representative: Polyxeni Philippidou

Research Topic: Human homomeric GlyRα2: Pore architecture, gating, and inhibition

Undergrad: University of Michigan

Thomas Lavin

MSTP Year: M3
Email: tkl19@case.edu

MSTP AD: Andrew Pieper
Mentor: John Tilton
PhD Program: Pathology/Molecular & Cellular Basis of Disease
Thesis Committee Representative: David Wald

Research Topic: Use of HIV-based virus-like particles in the kick-and-kill approach to an HIV cure

Undergrad: University of Maine

Katherine Letai

MSTP Year: M3
Email: kcl68@case.edu

MSTP AD: Heather Broihier
Mentor: Paul Tesar
PhD Program: Genetics & Genome Sciences
Thesis Committee Representative: Heather Broihier

Research Topic: Enteric glia engage in tumor-promoting crosstalk with colorectal cancer

Undergrad: Princeton University

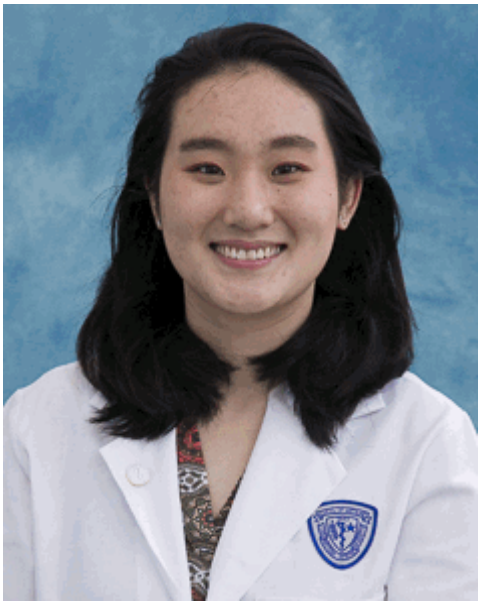
Kevin Newhall

MSTP Year: M3
Email: kpn11@case.edu

MSTP AD: Arne Rietsch
Mentor: Thaddeus Stappenbeck
PhD Program: Pathology/Immunology
Thesis Committee Representative: Alan Levine

Research Topic: Fungal strain diversity governs host-microbe interactions of Debaryomyces hansenii

Undergrad: Vassar College



Michelle Pan

MSTP Year: M3
Email: mjp238@case.edu

MSTP AD: Arne Rietsch
Mentor: Derek Abbott
PhD Program: Pathology/Immunology
Thesis Committee Representative: Arne Rietsch

Research Topic: Investigating mechanisms of cell death regulation in innate immunity

Undergrad: Franklin & Marshall College

Joseph Schindler

MSTP Year: M3
Email: jcs186@case.edu

MSTP AD: Andrew Pieper
Mentor: Jonathan Stamler
PhD Program: Biochemistry
Thesis Committee Representative: Derek Taylor

Research Topic: Control of RNA metabolism by nitric oxide

Undergrad: Middlebury College

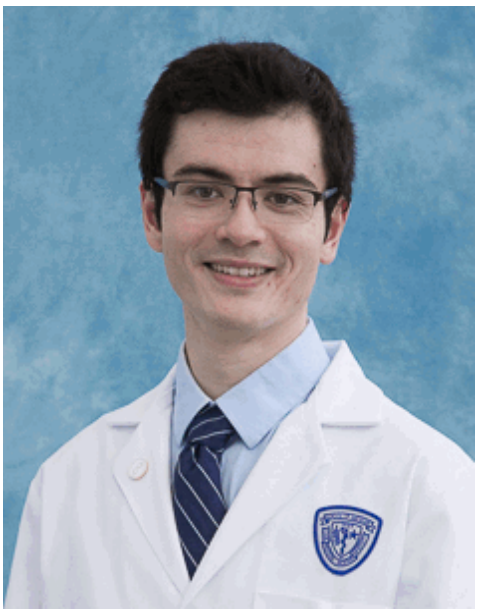
Prerna Singh

MSTP Year: M3
Email: pxs524@case.edu

MSTP AD: Chris Flask
Mentor: David Wilson
PhD Program: Biomedical Engineering
Thesis Committee Representative: Agata Exner

Research Topic: Low-density coronary calcium below the Agatston threshold on CT calcium scoring independently predicts MACE risk: Insights from CLARIFY and SCOT-HEART

Undergrad: Johns Hopkins University



Kyle Starost

MSTP Year: M3
Email: kas265@case.edu

MSTP AD: Chris Flask
Mentor: Seth Field
PhD Program: Pathology/Cancer Biology
Thesis Committee Representative: David Wald

Research Topic: Oncogenic receptor tyrosine kinase signaling is regulated by Golgi protein GOLPH3 and its interaction with MYO18A

Undergrad: Case Western Reserve University

M4

Sarah Barker

MSTP Year: M4
Email: sxb878@case.edu

MSTP AD: Heather Broihier
Mentor: Andrew Pieper
PhD Program: Pathology/Molecular and Cellular Basis of Disease
Thesis Committee Representative: Drew Adams

Research Topic: Pathological inflammation alters oligodendrocyte differentiation and function

Undergrad: Colorado College

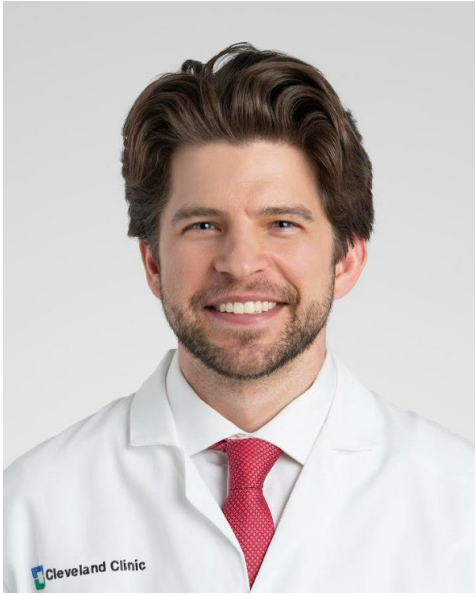
Melissa Bonner

MSTP Year: M4
Email: mrb194@case.edu

MSTP AD: Chris Flask
Mentor: Alex Huang
PhD Program: Pathology/Cancer Biology
Thesis Committee Representative: Jennifer Yu

Research Topic: Piezo1 Deletion in CD11b+ Cells Has Context-Dependent Effects on the Anti-Tumor Response

Undergrad: University of Southern California



Brendan Boylan

MSTP Year: M4
Email: btb47@case.edu

MSTP AD: Andrew Pieper
Mentor: Cornelia Bergmann
PhD Program: Pathology/Immunology
Thesis Committee Representative: Andrew Pieper

Research Topic: B Cell and stromal cell responses in the brain and its borders during neurotropic coronavirus infection

Undergrad: University of Wisconsin – Madison

Syrena Bracey

MSTP Year: M4
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MSTP AD: Arne Rietsch
Mentor: Tsan Sam Xiao
PhD Program: Pathology/Molecular and Cellular Basis of Disease
Thesis Committee Representative: George Dubyak

Research Topic: Role of Palmitoylation in GSDMA localization and GSDMA-mediated Pyroptosis

Undergrad: University of Maryland – Baltimore County

Razaq Durodoye

MSTP Year: M4
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MSTP AD: Chris Flask
Mentor: Scott Williams
PhD Program: Epidemiology & Biostatistics
Thesis Committee Representative: Kimberly McBennett

Research Topic: Characterizing the roles of race, ethnicity, ancestry, and APOE in late-onset Alzheimer's disease

Undergrad: The University of Texas at Dallas

Zachary Grimmett

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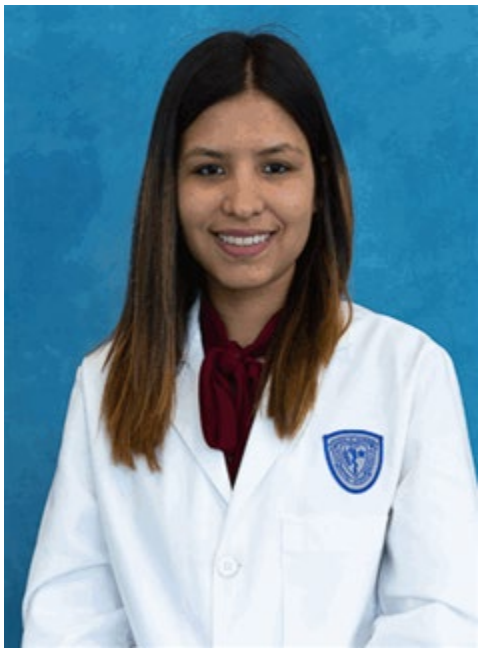
MSTP AD: Heather Broihier
Mentor: Jonathan Stamler
PhD Program: Pathology/Immunology
Thesis Committee Representative: Alan Levine

Research Topic: S-nitrosylation in regulation of signaling through beta-adrenergic receptors and impact on cardiovascular function

Undergrad: University of California – Berkeley



Natasha Ingles

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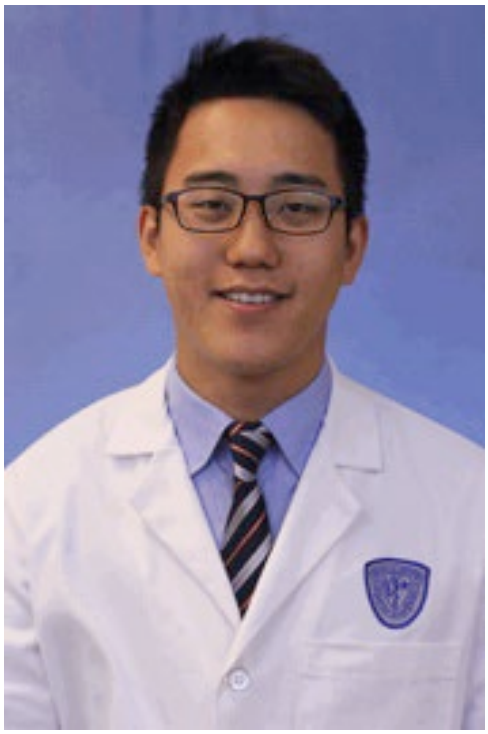
MSTP AD: Heather Broihier
Mentor: Ruth Keri
PhD Program: Pathology/Cancer Biology
Thesis Committee Representative: Jennifer Yu

Research Topic: Elucidating the impact of genome integrity mechanisms in cancer progression and aggressiveness

Undergrad: University of Puerto Rico – Mayaguez



Brian Kim

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MSTP AD: Andrew Pieper
Mentor: Atul Chopra
PhD Program: Genetics & Genome Sciences
Thesis Committee Representative: Paul Tesar

Research Topic: Asprosin transactivation underlies obesity relapse and inheritance

Undergrad: University of Pennsylvania

Erik Koritzinsky

MSTP Year: M4
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MSTP AD: Chris Flask
Mentor: Robert Fairchild
PhD Program: Pathology/Immunology
Thesis Committee Representative: Alan Levine

Research Topic: Early inflammatory events shaping allograft ischemia reperfusion injury

Undergrad: Cornell University

Alexander Lesser

MSTP Year: M4
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MSTP AD: Heather Broihier
Mentor: Mitchell Drumm
PhD Program: Pathology/Molecular and Cellular Basis of Disease
Thesis Committee Representative: Alan Levine

Research Topic: Metabolism in health and disease: Uncovering physiologic and pathologic adaptations in the context of changing systemic energetic demands

Undergrad: Cornell University

Benjamin Mittman

MSTP Year: M4
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MSTP AD: Andrew Pieper
Mentor: Michael Rothberg
PhD Program: Biomedical & Health Informatics
Thesis Committee Representative: James Spilsbury

Research Topic: Artificial intelligence and decision analytics for venous thromboembolism prevention

Undergrad: Hamilton College

Meghan O'Keefe

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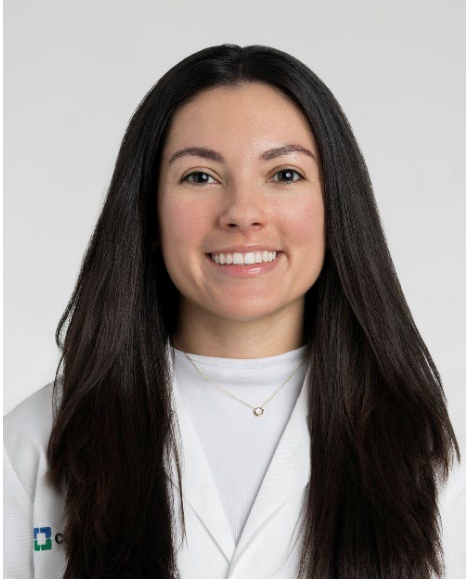
MSTP AD: Heather Broihier
Mentor: Derek Abbott
PhD Program: Pathology/Immunology
Thesis Committee Representative: Heather Broihier

Research Topic: Beyond pyroptosis: Cellular consequences of inflammasome stimulation

Undergrad: Northeastern University



Vanessa Salazar

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MSTP AD: Andrew Pieper
Mentor: Thaddeus Stappenbeck
PhD Program: Pathology/Immunology
Thesis Committee Representative: Robert Fairchild

Research Topic: Microbiota drive immune checkpoint inhibitor toxicity

Undergrad: Washington University in St Louis

Josephine Trichka

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MSTP AD: Chris Flask
Mentor: Stanley Adoro
PhD Program: Pathology/Immunology
Thesis Committee Representative: Heather Broihier

Research Topic: Regulation of inflammation by a non-canonical activity of the ESCRT protein CHMP5

Undergrad: Middlebury College

William Wulftange

MSTP Year: M4
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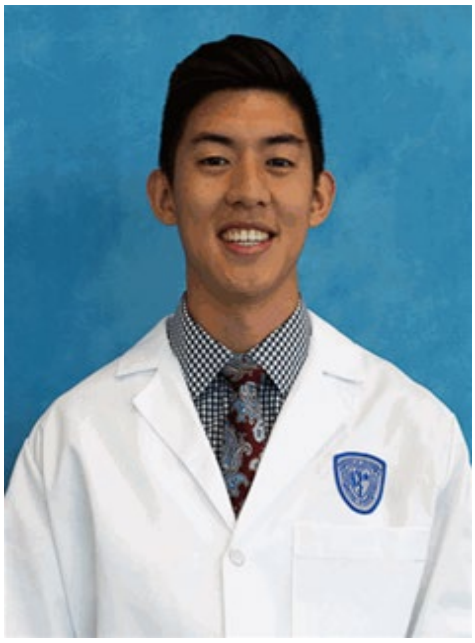
MSTP AD: Andrew Pieper
Mentor: Umut Gurkan
PhD Program: Biomedical Engineering
Thesis Committee Representative: Alex Huang

Research Topic: Microengineered systems for advancing hematological precision therapies

Undergrad: University of Nevada – Reno



Jesse Zhan

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MSTP AD: Andrew Pieper
Mentor: Paul Tesar
PhD Program: Genetics & Genome Sciences
Thesis Committee Representative: Drew Adams

Research Topic: Investigating the circadian aspect of oligodendroglia biology

Undergrad: Johns Hopkins University

Walter Zhao

MSTP Year: M4
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MSTP AD: Chris Flask
Mentor: Dan Ma
PhD Program: Biomedical Engineering
Thesis Committee Representative: Agata Exner

Research Topic: Clinical translation of magnetic resonance fingerprinting for glioblastoma infiltration imaging

Undergrad: Johns Hopkins University