



# **Weill Cornell Medicine** **Graduate School of Medical Sciences**

A partnership with the Sloan Kettering Institute

## ***CONVOCATION 2021***

***Wednesday, May 19, 2021***  
***Broadcast at 11:00 am***

# CONVOCATION PROGRAM

Welcome .....	Dean Barbara Hempstead, MD, PhD
Presentation of the Candidates for Master's Degree in <b>Clinical Epidemiology and Health Services Research</b> ...	<i>Program Chair</i> Mary E. Charlson, MD
Presentation of the Candidates for Master's Degree in <b>Clinical and Translational Investigation</b> .....	<i>Student Ombudsperson</i> Mary Jo Ward, PhD
Presentation of the Candidates for Master's Degree in <b>Healthcare Policy and Research</b> .....	<i>Vice Chair of Education</i> Karla Ballman, PhD
Presentation of the Candidates for Master's Degree in <b>Executive MBA/MS</b> .....	<i>Program Co-Chair</i> Said Ibrahim, MD
Presentation of the Candidates for Master's Degree in <b>Computational Biology</b> .....	<i>Program Director</i> Trine Krogh-Madsen, PhD
Presentation of the Candidates for Master's Degree in <b>Health Sciences for Physician Assistants</b> .....	<i>Program Co-Chair</i> Gerard Marciano, EdD, PA-C
Presentation of the Candidates for the Doctor of Philosophy Degree in <b>Medical Sciences</b> .....	Dean Barbara Hempstead, MD, PhD
<b>2021 Award of Distinction Awardee</b> .....	Dr. Eric Huang, MD, PhD
Presentation of the <b>2021 Distinguished Student Commencement Award</b> .....	Dean Barbara Hempstead, MD, PhD
Presentation of the <b>Excellence in Teaching and Mentoring Award</b> .....	Dean Barbara Hempstead, MD, PhD
Presentation of the <b>Outstanding Teaching and Mentoring Awards</b> .....	Dean Barbara Hempstead, MD, PhD
Presentation of the <b>2021 Vincent du Vigneaud Awards</b> .....	Dean Barbara Hempstead, MD, PhD
Introduction of the <b>2021 Julian R. Rachele Prizes</b> .....	Dean Barbara Hempstead, MD, PhD
Presentation of <b>2021 Julian R. Rachele Prize</b> .....	Danwei Huangfu, PhD
<b>2021 Julian R. Rachele Prize Research Overview</b> .....	Gary Dixon
Presentation of <b>2021 Julian R. Rachele Prize</b> .....	Ming Li, PhD
<b>2021 Julian R. Rachele Prize Research Overview</b> .....	Ke Xu

Presentation of the <b>2021 Student Diversity Award</b> .....	Dean Hempstead
2021 Student Diversity Awardee .....	Christopher Bourne
Presentation of the <b>2021 Faculty Diversity Award</b> .....	Dean Hempstead
2021 Faculty Diversity Awardees .....	Björn Kafsack, PhD, MHS, MS
.....	Monica Guzman, PhD
Presentation of the <b>2021 Student Outreach Award</b> .....	Dean Barbara Hempstead, MD, PhD
2021 Student Outreach Awardee .....	Camir Neville Ricketts
Presentation of the <b>2021 Student Service Award</b> .....	Dean Barbara Hempstead, MD, PhD
<b>2021 Student Service Awardees</b> .....	Thomas Rossetti and Krysta DiKun
Farewell .....	Dean Barbara Hempstead, MD, PhD

**2021 WEILL CORNELL GRADUATE SCHOOL  
OF MEDICAL SCIENCES  
AWARD OF DISTINCTION**

Established in 1997, the annual Award of Distinction recognizes an alumnus/a who has demonstrated exceptional achievements and outstanding contributions to biomedical research and education.

**Eric Huang, MD '86, PhD '93**

Professor of Pathology at the University of California San Francisco  
School of Medicine

**2021 DISTINGUISHED STUDENT COMMENCEMENT  
SPEAKER AWARD**

The WCGS Distinguished Student Commencement Award recognizes an exceptional member of our graduating WCGS class, who will deliver the student commencement address.

**Jordana Thibado, PhD Class of 2021**

Physiology, Biophysics & Systems Biology Program

Mentor: Joshua Levitz, PhD

## 2021 EXCELLENCE IN TEACHING AND MENTORING AWARD

The WCGS Excellence in Teaching and Mentoring Award recognizes a Weill Cornell Graduate faculty member who has distinguished herself or himself in the teaching and mentoring of students, postdocs, and other faculty.

### **CARL NATHAN, MD**

R.A. Rees Pritchett Professor of Microbiology  
Chairman, Department of Microbiology and Immunology  
Professor of Microbiology and Immunology  
Professor of Medicine

## 2021 OUTSTANDING TEACHING AND MENTORING AWARDS For Each Doctoral Program

The WCGS Outstanding Teaching and Mentoring Award recognizes a WCGS faculty member in our doctoral programs who has been exemplary in showing their dedication and giving their time to training our first- and second-year students during their early transition into our programs.

Immunology and Microbial  
Pathogenesis

**Alexander Rudensky, PhD**  
Chairman, Immunology Program, SKI  
Director, Ludwig Center at MSK  
Co-Chair, IMP Program

Neuroscience

**Anna Orr, PhD**  
Assistant Professor of Neuroscience  
Brain and Mind Research Institute

Physiology, Biophysics and Systems  
Biology

**Lucy A Skrabanek, PhD**  
Assistant Professor of Computational  
Biomedicine in Physiology and  
Biophysics

## **2021 VINCENT DU VIGNEAUD RESEARCH SYMPOSIUM AWARDS**

### **First-Year Poster Award**

#### **1st Place:**

**Thasin Peyear**, “The Time Course of Amphiphile Translocation Across Lipid Bilayers.”  
(PI Olaf Andersen, MD)

#### **2nd Place:**

**Nicholas Bartelo**, “Predicting Risk of Disease Progression for Pre-diabetic Patients.”  
(PI Olivier Elemento, PhD)

#### **3rd Place:**

**Tran Hoang**, “Detecting EGFR Expression in Bladder Cancer Using [89Zr]Zr-DFO-Panitumumab ImmunoPET Imaging.”  
(PI Jason Lewis, PhD)

### **Second-Year Poster Award**

#### **1st Place:**

**Anthony Antonelli**, “Mycobacterium bovis BCG Induces CD4 T Cell-Dependent Tumor Immunity Against Bladder Cancer via Tumor-Intrinsic Interferon Gamma Signaling.”  
(PI Michael Glickman, MD)

#### **2nd Place:**

**Robert Myers**, “A Single-Cell Multiomic Investigation of JAK2 V617F Mutant Myeloproliferative Neoplasms.”  
(PI Dan-Avi Landau, MD, PhD)

#### **3rd Place:**

**Katherine Lopez**, “Maternal Postpartum Exercise Mitigates the Metabolic Cost of a Fat Rich Diet.”  
(PI Miklos Toth, MD, PhD)

**Jessica Falci**, “Novel Autophagy Activators for Aggregated Tau Degradation.”  
(PI Yueming Li, PhD)

## **Oral Presentation Award**

### **1st Place:**

**Bobbie Pelham-Webb**, “The Molecular Resetting of Pluripotent Stem Cell Identity during Mitotic Exit.”  
(PI Effie Apostolou, PhD)

### **2nd Place:**

**Aleksandr Talishinsky**, “Distinct Transcriptomic Signatures Predict Sexually Dimorphic Connectivity Changes in Depression.”  
(PI Conor Liston, MD, PhD)

### **3rd Place:**

**Tomer Yaron**, “Phosphorylation of SARS-CoV-2 Nucleocapsid Protein Selectively Regulates Viral and Host RNA-Protein Binding and is Essential for Viral Infection.”  
(PI Olivier Elemento, PhD, and PI Lewis Cantley, PhD)

**Alexandra Miller**, “A Novel Reporter System Identifies Iron Uptake Virulence Genes in Mycobacteria.”  
(PI Sabine Ehrt, PhD)

## 2021 JULIAN R. RACHELE PRIZE

Named for a former Dean of the Graduate School, the Rachele Prize is the highest student award presented by the school. It is awarded to students who have published significant research in a scientific journal during the prior year. This year, two students received the Rachele Prize:

**Gary Dixon** (*Mentor: Danwei Huangfu, PhD*)

*QSER1 Protects DNA Methylation Valleys from De Novo Methylation*

**Ke Xu** (*Mentor: Ming Li, PhD*)

*Glycolysis Fuels Phosphoinositide 3-Kinase Signaling to Bolster T Cell Immunity*

## 2021 STUDENT DIVERSITY AWARD

**Christopher Bourne**

PhD Student, Mentor: Dr. David Scheinberg  
Immunology & Microbial Pathogenesis Program  
Co-Chair WCGS Social Justice & Anti-Racism Task Force

## 2021 FACULTY DIVERSITY AWARD

**Björn F Kafsack, PhD, MHS, MS**

Assistant Professor of Microbiology and Immunology  
Co-Chair WCGS Social Justice & Anti-Racism Task Force

**Monica Guzman, PhD**

Associate Professor of Pharmacology  
Co-Chair WCGS Social Justice & Anti-Racism Task Force



## **2021 STUDENT OUTREACH AWARD**

### **Camir Neville Ricketts, PhD Class of 2021**

Tri-Institutional Computational Medicine Program, PBSB  
Founder of “Minds Of Jamaica” a platform that connects  
underrepresented minority students with professionals in genomics and  
data science

## **2021 STUDENT SERVICE AWARD**

The WCGS Student Service Award recognizes one or a group of WCGS students who have distinguished themselves in service to the graduate school, WCM, MSKCC, HSS, the larger community, or beyond.  
This year’s awardees are being recognized for co-chairing the 40th Annual Vincent du Vigneaud Research Symposium.

### **Krysta DiKun**

PhD Student, Mentor: Lorraine Gudas, PhD  
Pharmacology Program

### **Thomas Rossetti**

PhD Student, Mentors: Lonny Levin, PhD and  
Jochen Buck, MD, PhD  
Pharmacology Program

## RECIPIENTS OF DEGREES

### MASTERS OF SCIENCE

#### August 17, 2020

Kerri Aronson  
Keith Alan Chadwick  
Lisa Torres

Annalyn Katrina Brown  
Farrah Monibi  
Yi Hang Ian Yen

Michelle Youngju Yun

#### December 31, 2020

Jin Kim  
Eric James Mallack  
Mariam Ali Mohsin

Alicia Jill Latham  
Alexander Merkler  
Shun Sun

Edwidge Thomas

#### May 20, 2021

Diana M. Aguilera  
Irma Johanny Alarcón  
Nicole Anderson  
Onyinye Balogun  
Anna Berent  
Emily Bhutiani  
Jessica Maria Bonet  
Erica Burke  
Margarita Ticzon Camacho  
Chloe Lena Cecchini  
Kaitlin Ashley Chamberlain  
Ida Chen  
Michelle Chen  
John Deighton Clarke  
Leah Cohen  
Atish De  
Alexis Diaz  
Austin Alexander Dixon  
Aleksey Dvorzhinskiy  
Nancy Fernandez

Fariha Ahsan  
Hasan Ali Aldailami  
Irene Borteley Aplerh-Doku  
Roma Corey Benfanti  
Mark Anthony Bernard  
Thomas Boerner  
Tyler Zedephrym Brown  
Jason John Anthony Calcagno  
Theresa Jean Casterton  
Darby Nicole Chait  
Christine Fang Chen  
Linda Yin Chen  
Zhuoyang Chen  
Adam Lee Cohen  
Antoinette Danvers  
Madhumita Dey  
Liezl Angela Diaz  
Siobhan M. Dolan  
Shadia Farah  
Savannah Lyn Francis

Amy Friedman  
Emily Elizabeth Gale  
Kelly McCabe Gillen  
Lindsey Ligeiro Goncalves  
Alexander Gruber  
Emily Marie Hodson  
Olivia Jackson  
Vipin Vaman Kamath  
Amy Younjoo Kim  
Paul Jang Kim  
Michael John Komendowski  
Jamuna K. Krishnan  
Colleen Lawrenz  
Jungran Lee  
Qiong Liu  
Matthew John MacVey  
Wayne Anthony McCreath  
Alexandra Gordon Mironov  
Darshana Mukundan  
Nupoor Narula  
Johnathan Pinkhasov  
Julia Radossich  
Marielle Renehan  
James Richards  
Debra Robbins  
Jessica Barbara Rothenberg  
Brandon Luis Samuels  
Brian Carl Shaffer  
Ethan Sim  
Melissa Steadman  
Angelika Tapia  
Diane Tsang  
John Leslie Vaughn  
Saloni Pradeepkumar Vishwakarma  
Fiona KJ Wang  
Stephanie Erica Weiner  
Juho Patrick Whang  
Maria Andreatta Wright  
Hyunkyung Yun

Jonathan Stephen Gal  
Connie Giang  
Rajita Basak Goldberg  
Christopher Jesus Gonzalez  
Thomas Hart  
Nikolay A. Ivanov  
Joshua Samuel Jolissaint  
Sunayana Karra  
Choo-Hyun Kim  
Nina Alexandra Koester  
Annika Lowrey Kossayda  
Tyler David Lakin  
Brennan Peter Lee  
Tirza Lehrfield  
Keilee Suling Luo  
Allan Mariano  
Lindsey Dru McDonald  
Nickolas George Mitilenes  
Kevin Caesar Naranjo  
Pearl Phillips  
Stephen Thomas Pirpinias  
Arun Rai  
Angelo Davide Reppucci  
Martín Alfredo Rivas  
Lisa Rong  
Mia Vitina Ruggiero  
Monica H. Schwartzman  
Regina Shmukler Druz  
Nicole Sophia Simon  
Christina Wong Sturgeon  
Cristina Mireya Tovar  
Elizabeth Ann Urbanski-Farrell  
Pratibha Vemulapalli  
Justine Tracey Volz  
Alexander Michael Wark  
Elana R. Weintraub  
Jessica White  
Tiffany Younger  
Kelsey Zuckerman

**August 31, 2021\*\***

Ahmed Mohammed Al-Mazrou  
Hannah Elizabeth Bancroft  
Xiao Cai  
Anthony Joseph Casper  
Zhixiong Chen  
Sophia Rose D'Angelo  
Shady Elmasry  
Yujie Hai  
Zhongyan Hua  
Jiahe Li  
Xiang Li  
Jinfeng Lu  
Pratik Mistry  
Shreya Sanjay Patel  
Saanjaana Rahman  
Daniel Sanky  
Xiuying Si  
Yongqi Sun  
Maryanne Thangarajah  
Michelle Chinedum Nneka Utah  
Yifan Wu  
Ziyin Zhang

María Purificación Ballester-Navarro  
Guillaume Barbalat  
Jessie Cai  
Tiffany Chang  
Albert Chow  
Alison Danielle Davis  
Nijah Glenn  
Kanta Haque  
Megha Anil Kanabar  
Qiaozheng Li  
Shutian Lin  
Yunqing Ma  
Fariha Mujeebuddin  
Marie-Ann Ewurabena Prah  
Manya Saaraswat  
Caroline Shippey  
Kyle Sogluizzo  
Man Tang  
Yiqi Tian  
Siqi Wei  
Zizhuo Xu  
Xiang Zhu

\*\* By Special Permission

## DOCTOR OF PHILOSOPHY

### August 17, 2020

James John Asciolla  
Kristopher Michael Barnes  
Benjamin Colin Campbell  
Sungyun Cho  
Xinghuo Li  
Chase Daniel McCann  
Anjin Xianyu

Rachel Ann Babij \*  
Alexandria M. Brumfield  
Nathaniel Rosenstein Campbell \*  
Zhe Ran Duan \*  
Matthew Joseph Donald MacKay  
Pradeep Ramalingam  
Jenny Yaohua Xue \*

Shira Yomtoubian

### December 31, 2020

Syafiq Abd Wahab  
Ashley Stephen Doane  
Alexander Nathaniel Gorelick  
Mehtap İşik  
Olivia Brooke Levine  
Christopher Mezias  
Ashlesha Odak  
Zheng Ser  
Chaya Stern

Carlos Diaz Salazar Albelda  
Joshua Hanna Fass  
Teng Han  
Chirag Krishna  
Ting-Yu Lin  
Briana Glyn Nixon  
Andrew Crosbie Scott  
Jay Shi \*  
Nevin Yusufova

### May 20, 2021

Nimra Asi  
Christina E. Bebernitz  
Tapojyoti Das  
Gary Raymond Dixon  
Vidur Garg  
Balvir Kumar, Jr.  
Jonghan Lee  
Barbara Pelham-Webb \*  
Merve Sahin  
Mojdeh Shakiba  
Fanying Tang  
Rafal Piotr Wiewiora

Kelly Madigan Banks \*  
Megan M. Dacek  
Elvisha Dhamala  
Tyler Andrew Funnell  
Jackie L. Gottshall  
Chan Lee  
Pengju Nie  
Camir Neville Ricketts  
Sarah Michelle Schrader \*  
Alison Elizabeth Smith  
Jordana Kathryn Thibado  
Corrin A. Wohlhieter

Ke Xu

\* Cornell/Rockefeller/Sloan Kettering Tri-Institutional MD-PhD Student

## MASTERS OF SCIENCE

August 17, 2020

**ARONSON, KERRI**, MS, Clinical Epidemiology & Health Service Research. Advisors: Robert Kaner and Monika Safford. Thesis: *Quality of Life in Chronic Hypersensitivity Pneumonitis—The Patient Perspective*.

**BROWN, ANNALYN KATRINA**, MS, Pharmacology.

**CHADWICK, KEITH ALAN**, MS, Clinical & Translational Investigation. Advisors: Julianne Imperato-McGinley and Alvin Mushlin. Thesis: *Efficacy, Tolerability and Safety of Operating Room Microlaryngoscopy Versus Office-Based Potassium Titanyl Phosphate (KTP) Laser Treatment of Benign Vocal Fold Lesions: A Longitudinal Prospective Evaluation of Multidimensional Voice Outcomes*.

**MONIBI, FARRAH**, MS, Clinical & Translational Investigation. Advisors: Julianne Imperato-McGinley and Kendall Smith. Thesis: *Exploring the Pathobiology of the Human Knee Meniscus*.

**TORRES, LISA**, MS, Clinical & Translational Investigation. Advisors: Julianne Imperato-McGinley and Olaf Andersen. Thesis: *Attributable Mortality of Acute Respiratory Distress Syndrome: A Systematic Review, Meta-Analysis, and Observational Study*.

**YEN, YI HANG IAN**, MS, Healthcare Policy & Research. Advisor: Ruth Masterson Creber. Thesis: *mHealth Population Health Surveillance in Myanmar*.

**YUN, MICHELLE YOUNGJU**, MS, Clinical & Translational Investigation. Advisors: Julianne Imperato-McGinley and Alvin Mushlin. Thesis: *A Retrospective Review of National Medicaid Claims Data from 2009 to 2012: Anti-Seizure Medications in the Pediatric Population*.

December 31, 2020

**KIM, JIN**, MS, Healthcare Policy & Research. Advisor: Bruce Schackman. Thesis: *Optimal Timing of Prostate MRI for Improved Quality of Life*.

**LATHAM, ALICIA JILL**, MS, Clinical & Translational Investigation. Advisors: Julianne Imperato-McGinley and Dean Bajorin. Thesis: *Exploring Microsatellite Instability Detection in Cell-Free DNA as a Potential Non-Invasive Screening Modality in Patients with Lynch Syndrome*.

**MALLACK, ERIC JAMES**, MS, Clinical & Translational Investigation. Advisors: Julianne Imperato-McGinley and Mary Jo Ward. Thesis: *A Longitudinal Analysis of Early Lesion Growth in Presymptomatic Patients with Cerebral Adrenoleukodystrophy*.

**MERKLER, ALEXANDER**, MS, Clinical & Translational Investigation. Advisors: Julianne Imperato-McGinley and Kendall Smith. Thesis: *Silent Myocardial Infarction and Subsequent Ischemic Stroke in the Cardiovascular Health Study*.

**MOHSIN, MARIAM ALI**, MS, Healthcare Policy & Research. Advisor: Joyti Pathak. Thesis: *Development of Shared Decision Making Tool for Postpartum Depression Prevention and Treatment*.

**SUN, SHUN**, MS, Healthcare Policy & Research. Advisor: Jyoti Pathak. Thesis: *Using Natural Language Processing and Machine Learning to Predict Alcohol Misuse from Electronic Health Record Data*.

**THOMAS, EDWIDGE**, MS, Clinical Epidemiology & Health Service Research. Advisor: Mary Charlson. Thesis: *Care Managing Patient with Serious Mental Illness: Value or No Value*.

### May 20, 2021

**AGUILERA, DIANA M.**, Executive MBA, MS, Healthcare Policy & Research.

**AHSAN, FARIHA**, MS, Healthcare Policy & Research. Advisor: Meghan Reading Turchioe. Thesis: *Understanding Overall Acceptability of Telehealth Video Visits among Patients Pre- and Post-COVID, Using Patient and Telehealth Visit Characteristics*.

**ALARCÓN, IRMA JOHANNY**, Executive MBA, MS, Healthcare Policy & Research.

**ALDAILAMI, HASAN ALI**, Executive MBA, MS, Healthcare Policy & Research.

**ANDERSON, NICOLE**, MS, Health Sciences for Physician Assistants. Advisor: Peter Fabricant. Thesis: *Association of Sport Specialization with Injury Rates Among Youth Athletes: A Prospective Study*.

**APLERH-DOKU, IRENE BORTELEY**, Executive MBA, MS, Healthcare Policy & Research.

**BALOGUN, ONYINYE**, MS, Clinical Epidemiology & Health Service Research. Advisors: Peter Kingham and Daniel Fitzgerald. Thesis: *Towards Global Equity in Women's Cancer Care: An Assessment of Radiotherapy Utilization among Uterine Cancer Patients in New York City & Breast Cancer patients in Ife, Nigeria.*

**BENFANTI, ROMA COREY**, MS, Health Sciences for Physician Assistants. Advisor: Katherine Hajjar. Thesis: *The Effect of Lactobacillus Rhamnosus Gg on Attention-Deficit Hyperactivity Disorder Symptom Severity in Adolescents.*

**BERENT, ANNA**, Executive MBA, MS, Healthcare Policy & Research.

**BERNARD, MARK ANTHONY**, MS, Clinical Epidemiology & Health Service Research. Advisors: Carla Boutin-Foster and Girardin Jean-Louis. Thesis: *Blood Pressure Control in Hypertensive African-Americans: A Psychosocial Perspective.*

**BHUTIANI, EMILY**, MS, Health Sciences for Physician Assistants. Advisor: Hooman Yaghoobzadeh. Thesis: *A Protocol Guided Inpatient Cardiac Rehabilitation Program in Patients Following Coronary Artery Bypass Graft Surgery to Reduce Post-Operative Complications and Improve Functional Capacity.*

**BOERNER, THOMAS**, MS, Clinical Epidemiology & Health Service Research. Advisors: Dennis Chi and Kara Long-Roche. Thesis: *Improving the Care of Women with Advanced Ovarian Cancer Undergoing Primary Debulking Surgery.*

**BONET, JESSICA MARIA**, MS, Health Sciences for Physician Assistants. Advisor: Keith LaScalea. Thesis: *Long Term Health Effects Caused by Carcinogenic Components in Electronic Cigarettes.*

**BROWN, TYLER ZEDEPHRYM**, MS, Health Sciences for Physician Assistants. Advisor: Thanakorn Jirasevijinda. Thesis: *Proposed Risk Stratification to Identify Youth Athletes Aged 10-18 Who May Be at Increased Risk for Sudden Cardiac Death.*

**BURKE, ERICA**, MS, Health Sciences for Physician Assistants. Advisor: Inna Landres. Thesis: *The Impact of Stress Mitigation in Pregnant Women on the Bacterial Colonization of the Newborn Gut Microbiome.*

**CALCAGNO, JASON JOHN ANTHONY**, MS, Health Sciences for Physician Assistants. Advisor: Alexander Merkler. Thesis: *Edaravone as an Adjunct Medication in the Treatment of Acute Ischemic Strokes to Improve Outcomes.*



**CAMACHO, MARGARITA TICZON**, Executive MBA, MS, Healthcare Policy & Research.

**CASTERTON, THERESA JEAN**, Executive MBA, MS, Healthcare Policy & Research.

**CECCHINI, CHLOE LENA**, MS, Health Sciences for Physician Assistants. Advisor: Yasmin Khakoo. Thesis: *Evaluating Long-Term Neurocognitive Outcomes Associated with Proton Radiotherapy Compared to Photon Radiotherapy in the Treatment of Pediatric Low-Grade Glioma.*

**CHAIT, DARBY NICOLE**, MS, Health Sciences for Physician Assistants. Advisor: Thanakorn Jirasevijinda. Thesis: *The Efficacy of Play Therapy in Preventing the Development of PTSD and Secondary Characteristics of PTSD, Specifically Anxiety and Depression, in Children Who Have Lost a Parent of Guardian.*

**CHAMBERLAIN, KAITLIN ASHLEY**, MS, Health Sciences for Physician Assistants. Advisor: Alexander Swistel. Thesis: *Quality of Life Outcomes Based on Recipient Site Choice in Vascularized Lymph Node Transfer for Treatment of Breast Cancer-Related Lymphedema.*

**CHEN, CHRISTINE FANG**, MS, Health Sciences for Physician Assistants. Advisor: Harsiman Singh. Thesis: *The Association Between Unfractionated Heparin and Bivalirudin Used During Percutaneous Coronary Intervention for Stable Angina and Acute Coronary Syndromes and the In-Hospital and Mortality Outcomes Observed Across All Body Mass Index Groups.*

**CHEN, IDA**, MS, Health Sciences for Physician Assistants. Advisor: Sam Senturia. Thesis: *Application of Lean Methodology to Diagnostic Laboratory Testing in Emergency Departments as a Solution to Crowding and Prolonged Wait Times.*

**CHEN, LINDA YIN**, MS, Healthcare Policy & Research. Advisor: Yuhua Bao. Thesis: *COVID-19 and Life-Saving Medications for Opioid Use Disorder Among Medicaid Patients.*

**CHEN, MICHELLE**, MS, Health Sciences for Physician Assistants. Advisor: Randi Silver. Thesis: *ALDH2 Deficiency: Lack of Approved Treatments Efficient at Decreasing Serum Aldehyde Levels.*

**CHEN, ZHUOYANG**, MS, Computational Biology. Advisor: Olivier Elemento. Thesis: *Correlation of Copy Number Variation and Gene Expression on TCGA-BRCA Data.*

**CLARKE, JOHN DEIGHTON**, Executive MBA, MS, Healthcare Policy & Research.

**COHEN, ADAM LEE**, Executive MBA, MS, Healthcare Policy & Research.

**COHEN, LEAH**, MS, Health Sciences for Physician Assistants. Advisor: Inna Landres. Thesis: *Exercise During Pregnancy: A Strategy for The Management of Gestational Diabetes Mellitus*.

**DANVERS, ANTOINETTE**, Executive MBA, MS, Healthcare Policy & Research.

**DE, ATISH**, MS, Healthcare Policy & Research.

**DEY, MADHUMITA**, Executive MBA, MS, Healthcare Policy & Research.

**DIAZ, ALEXIS**, MS, Health Sciences for Physician Assistants. Advisor: Brandon Aden. Thesis: *Evaluation of Initiation and Retention Rates of Medication-Assisted Treatment after Emergency Department-Initiated Buprenorphine by Data 2000 X Waivered Advanced Practice Providers*.

**DIAZ, LIEZL ANGELA**, Executive MBA, MS, Healthcare Policy & Research.

**DIXON, AUSTIN ALEXANDER**, MS, Computational Biology. Advisor: Ekta Khurana. Thesis: *Structural Variant and Expression Analysis of Coding and Noncoding Cancer Drivers Identified by Breakpoint Proximity*.

**DOLAN, SIOBHAN M.**, Executive MBA, MS, Healthcare Policy & Research.

**DVORZHINSKIY, ALEKSEY**, MS, Clinical Epidemiology & Health Service Research. Advisors: Joseph Lane and William Ricci. Thesis: *The Performance of PROMIS Computer Adaptive Testing in Patients After Hip and Tibial Plateau Fracture Surgery*.

**FARAH, SHADIA**, MS, Neuroscience.

**FERNANDEZ, NANCY**, Executive MBA, MS, Healthcare Policy & Research.

**FRANCIS, SAVANNAH LYN**, MS, Health Sciences for Physician Assistants. Advisor: Keith LaScalea. Thesis: *Clinical Indications for Use of Intermittent Fasting in The Management of Individuals at Risk for Type 2 Diabetes Mellitus*.

**FRIEDMAN, AMY**, Executive MBA, MS, Healthcare Policy & Research.

**GAL, JONATHAN STEPHEN**, Executive MBA, MS, Healthcare Policy & Research.

**GALE, EMILY ELIZABETH**, MS, Health Sciences for Physician Assistants. Advisor: Katherine Hajjar. Thesis: *Daylight Photodynamic Therapy: A Potential Treatment for Truncal Acne*.

**GIANG, CONNIE, MS**, Health Sciences for Physician Assistants. Advisor: Katherine Hajjar. Thesis: *The Effects of Parent-Mediated Early Start Denver Model on Social Communication Skills in Children Diagnosed with Autism Spectrum Disorder Under the Age of Four*.

**GILLEN, KELLY MCCABE**, Executive MBA, MS, Healthcare Policy & Research.

**GOLDBERG, RAJITA BASAK**, Executive MBA, MS, Healthcare Policy & Research.

**GONCALVES, LINDSEY LIGEIRO, MS**, Health Sciences for Physician Assistants. Advisor: Thanakorn Jirasevijinda. Thesis: *Prevalence of CNS lesions with Central Precocious Puberty – Recommendations for Routine MRI Screening*.

**GONZALEZ, CHRISTOPHER JESUS, MS**, Clinical Epidemiology & Health Service Research. Advisor: Martin Shapiro. Thesis: *Assessing the Social Determinants of Adverse Outcomes of Covid-19 and Exploring Mechanisms by Which They Impact Mitigating Behaviors*.

**GRUBER, ALEXANDER, MS**, Health Sciences for Physician Assistants. Advisor: Joshua Dines. Thesis: *Potentially Improving Allograft Anterior Cruciate Ligament Reconstruction Outcomes by Utilizing Bone Mesenchymal Stem Cells*.

**HART, THOMAS, MS**, Computational Biology. Advisor: Jan Krumsiek. Thesis: *Association Between Observed Gleason Scores and Molecular Phenotypes in Prostate Cancer Spatial Metabolomics Dataset*.

**HODSON, EMILY MARIE, MS**, Health Sciences for Physician Assistants. Advisor: David Hajjar. Thesis: *The Effects of a Plant Based Diet on Cardiometabolic Disease*.

**IVANOV, NIKOLAY A., MS**, Clinical & Translational Investigation. Advisors: Julianne Imperato-McGinley and Anthony Brown. Thesis: *Investigating Macrophage Polarization and T-Cell Dynamics in Pancreatic Neuroendocrine Tumors*.

**JACKSON, OLIVIA, MS**, Health Sciences for Physician Assistants. Advisor: David Hajjar. Thesis: *Time Restricted Eating and Reversal of Metabolic Syndrome*.

**JOLISSAINT, JOSHUA SAMUEL, MS**, Clinical & Translational Investigation. Advisors: Julianne Imperato-McGinley and Dean Bajorin. Thesis: *The Role of Liver-Directed Chemotherapy, Genomics, and Radomics in the Management of Intrahepatic Cholangiocarcinoma*.

**KAMATH, VIPIN VAMAN**, Executive MBA, MS, Healthcare Policy & Research.

**KARRA, SUNAYANA**, Executive MBA, MS, Healthcare Policy & Research.

**KIM, AMY YOUNJOO**, MS, Healthcare Policy & Research. Advisor: Yiye Zhang. Thesis: *Super-High Utilizer Patients in an Urban Academic Emergency Department: Characteristics, Early Identification, and Impact of Strategic Care Management Interventions*.

**KIM, CHOO-HYUN**, Executive MBA, MS, Healthcare Policy & Research.

**KIM, PAUL JANG**, Executive MBA, MS, Healthcare Policy & Research.

**KOESTER, NINA ALEXANDRA**, MS, Health Sciences for Physician Assistants. Advisor: Joseph Murray. Thesis: *Perinatal Depression in The Nonpregnant Female of Same Sex Couples in the United States: A Prospective Study*.

**KOMENDOWSKI, MICHAEL JOHN**, MS, Healthcare Policy & Research. Advisor: Ruth Masterson Creber. Thesis: *Health and Hope-Myanmar project*.

**KOSSAYDA, ANNIKA LOWREY**, MS, Health Sciences for Physician Assistants. Advisor: Robert Winchell. Thesis: *Long-Term Infectious Outcomes of Surgical and Nonsurgical Splenic Salvage Management for Blunt Traumatic Splenic Injuries In Adults*.

**KRISHNAN, JAMUNA K.**, MS, Clinical Epidemiology & Health Service Research. Advisors: Monika Safford and Fernando Martinez. Thesis: *Application of Health Services and Epidemiologic Methods in Acute and Chronic Respiratory Disease*.

**LAKIN, TYLER DAVID**, Executive MBA, MS, Healthcare Policy & Research.

**LAWRENZ, COLLEEN**, MS, Health Sciences for Physician Assistants. Advisor: Sam Senturia. Thesis: *Virtual Reality to Decrease Procedural Pain and Anxiety During Pediatric Laceration Repairs in The Emergent Setting*.

**LEE, BRENNAN PETER**, MS, Computational Biology. Advisor: Christina Leslie. Thesis: *scBatch: Batch Invariant Cell Type Identification from Heterogenous scRNA-seq Datasets*.

**LEE, JUNGRAN**, MS, Healthcare Policy & Research. Advisor: Arian Jung. Thesis: *Post-acute Care Patient Outcome Comparisons between Advanced Practitioners and Physicians who Specialize in Nursing Home Practice*.

**LEHRFIELD, TIRZA**, MS, Health Sciences for Physician Assistants. Advisor: Jeffrey Dayton. Thesis: *Change of Heart: Pharmacologic Therapy Versus Conservative Management in the Treatment of Asymptomatic Patent Ductus Arteriosus in Preterm Neonates*.

**LIU, QIONG**, MS, Health Sciences for Physician Assistants. Advisor: Lorraine Gudas. Thesis: *A Study of Erlotinib Monotherapy and in Combination with Pembrolizumab in Previously Untreated Stage I-III A Non-Small Cell Lung Cancer*.

**LUO, KEILEE SULING**, MS, Healthcare Policy & Research. Advisor: Yuhua Bao. Thesis: *COVID-19 and Life-Saving Medications for Opioid Use Disorder Among Medicaid Patients*.

**MACVEY, MATTHEW JOHN**, Executive MBA, MS, Healthcare Policy & Research.

**MARIANO, ALLAN**, MS, Health Sciences for Physician Assistants. Advisor: Veronica LoFaso. Thesis: *Implementation of A Fall Prevention Education Program Prior to Surgical Intervention of Orthopedic Patients Will Reduce the Incidence of Fall Events in The Hospital Setting*.

**MCCREATH, WAYNE ANTHONY**, Executive MBA, MS, Healthcare Policy & Research.

**MCDONALD, LINDSEY DRU**, Executive MBA, MS, Healthcare Policy & Research.

**MIRONOV, ALEXANDRA GORDON**, Executive MBA, MS, Healthcare Policy & Research.

**MITILENES, NICKOLAS GEORGE**, Executive MBA, MS, Healthcare Policy & Research.

**MUKUNDAN, DARSHANA**, MS, Computational Biology. Advisor: Olivier Elemento. Thesis: *Integrative Analysis of Breast Cancer*.

**NARANJO, KEVIN CAESAR**, MS, Health Sciences for Physician Assistants. Advisor: Joshua Weaver. Thesis: *Comparison of an Implantable Sphenopalatine Ganglion Neurostimulator to Standard of Care Therapy in the Preventive Management of Chronic Cluster Headache*.

**NARULA, NUPOOR**, MS, Clinical Epidemiology & Health Service Research. Advisor: Mary Roman. Thesis: *Aortopathies: Pregnancy Outcomes and a Novel Genetic Predisposition*.

**PHILLIPS, PEARL**, Executive MBA, MS, Healthcare Policy & Research.

**PINKHASOV, JOHNATHAN**, Executive MBA, MS, Healthcare Policy & Research.

**PIRPINIAS, STEPHEN THOMAS**, MS, Computational Biology. Advisor: Jan Krumsiek. Thesis: *Machine Learning the Qatar Metabolomics Study on Type-2 Diabetes*.

**RADOSSICH, JULIA**, MS, Health Sciences for Physician Assistants. Advisor: Brandon Aden. Thesis: *Transcranial Direct Current Stimulation as a Novel Intervention for Treating Opioid Use Disorder*.

**RAI, ARUN**, Executive MBA, MS, Healthcare Policy & Research.

**RENEHAN, MARIELLE**, MS, Health Sciences for Physician Assistants. Advisor: Neel Mehta. Thesis: *High-Frequency Spinal Cord Stimulation: A Novel Treatment for Chronic Neck and Upper Limb Pain in Failed Neck Surgery Syndrome Patients*.

**REPPUCCI, ANGELO DAVIDE**, Executive MBA, MS, Healthcare Policy & Research.

**RICHARDS, JAMES**, Executive MBA, MS, Healthcare Policy & Research.

**RIVAS, MARTÍN ALFREDO**, MS, Clinical Epidemiology & Health Service Research. Advisor: Ari Melnick. Thesis: *Role of The Cohesin Complex in B Cell Development, Lymphomagenesis and Patients Outcomes*.

**ROBBINS, DEBRA**, Executive MBA, MS, Healthcare Policy & Research.

**RONG, LISA**, MS, Clinical Epidemiology & Health Service Research. Advisors: Hugh Hemmings, Mary Charlson, and Mario Gaudino. Thesis: *Interventional Echo - Insights into the Aorta*.

**ROTHENBERG, JESSICA BARBARA**, Executive MBA, MS, Healthcare Policy & Research.

**RUGGIERO, MIA VITINA**, MS, Health Sciences for Physician Assistants. Advisor: Amy Hoffman. Thesis: *Go with Your Gut: The Use of Probiotics as Adjunctive Treatment in Major Depressive Disorder*.

**SAMUELS, BRANDON LUIS**, Executive MBA, MS, Healthcare Policy & Research.

**SCHWARTZMAN, MONICA H.**, MS, Clinical Epidemiology & Health Service Research. Advisors: Lisa Mandl and Randy Longman. Thesis: *Characterizing Spondyloarthritis: Medication Practices, Patient Preferences and Pain Sensitization*.

**SHAFFER, BRIAN CARL**, MS, Clinical & Translational Investigation.

Advisors: Julianne Imperato-McGinley and Dean Bajorin. Thesis: *Prospective Killer Immunoglobulin-Like Receptor Genotype Evaluation of Hematopoietic Cell Donors is Feasible with Potential to Benefit Patients with Acute Myelogenous Leukemia.*

**SHMUKLER DRUZ, REGINA**, Executive MBA, MS, Healthcare Policy & Research.

**SIM, ETHAN**, MS, Health Sciences for Physician Assistants. Advisor: Randi Silver. Thesis: *Genetically Modified Intravenous Fibroblast Therapy: A Novel Treatment for Recessive Dystrophic Epidermolysis Bullosa.*

**SIMON, NICOLE SOPHIA**, MS, Health Sciences for Physician Assistants. Advisor: Karen Acker. Thesis: *The Utilization of Serum Procalcitonin Levels to Establish Effective Duration of Antibiotic Therapy in the Pediatric Population.*

**STEADMAN, MELISSA**, MS, Health Sciences for Physician Assistants. Advisor: Joseph Murray. Thesis: *The Effects of Probiotics on Anxiety in Healthy Adults.*

**STURGEON, CHRISTINA WONG**, Executive MBA, MS, Healthcare Policy & Research.

**TAPIA, ANGELIKA**, Executive MBA, MS, Healthcare Policy & Research.

**TOVAR, CRISTINA MIREYA**, MS, Health Sciences for Physician Assistants. Advisor: Joshua Weaver. Thesis: *The Effect of Dietitian Support on Diet Maintenance in Newly Diagnosed Glioblastoma Patients on the Ketogenic Diet During Standard Therapy.*

**TSANG, DIANE**, MS, Health Sciences for Physician Assistants. Advisor: Amy Hoffman. Thesis: *Anxious and Depressive Symptoms in Adults Following Adolescent Exposure to Antipsychotics.*

**URBANSKI-FARRELL, ELIZABETH ANN**, Executive MBA, MS, Healthcare Policy & Research.

**VAUGHN, JOHN LESLIE**, MS, Clinical Epidemiology & Health Service Research. Advisor: Monika Safford. Thesis: *Understanding Racial and Ethnic Differences in Lymphoma Treatment and Outcomes in the United States.*

**VEMULAPALLI, PRATIBHA**, Executive MBA, MS, Healthcare Policy & Research.

**VISHWAKARMA, SALONI PRADEEPKUMAR**, MS, Computational Biology. Advisor: Christina Leslie. Thesis: *Investigating the Functional Role of FOXA1 Mutations in Prostate Cancer Using Murine Organoid Model*.

**VOLZ, JUSTINE TRACEY**, Executive MBA, MS, Healthcare Policy & Research.

**WANG, FIONA KJ**, MS, Health Sciences for Physician Assistants. Advisor: Alexis Melnick. Thesis: *Modified Assisted Reproductive Technology (ART) in Patients with PCOS to Reduce Ovarian Hyperstimulation Syndrome Risk*.

**WARK, ALEXANDER MICHAEL**, MS, Health Sciences for Physician Assistants. Advisor: Hooman Yaghoobzadeh. Thesis: *In Person Education for Diabetics About Typical and Atypical Myocardial Infarction Symptoms to Reduce Time to Seek Medical Attention*.

**WEINER, STEPHANIE ERICA**, MS, Healthcare Policy & Research. Advisor: Natalie Benda. Thesis: *Ontology Development in Health Literacy*.

**WEINTRAUB, ELANA R.**, MS, Health Sciences for Physician Assistants. Advisor: Jonathan Avery. Thesis: *Mapping Out the Problem: A National Regional Comparison of Chronic Benzodiazepine Use*.

**WHANG, JUHO PATRICK**, Executive MBA, MS, Healthcare Policy & Research.

**WHITE, JESSICA**, MS, Computational Biology. Advisor: Olivier Elemento. Thesis: *A Connectivity Mapping Approach to Identifying Senolytic Compounds*.

**WRIGHT, MARIA ANDREATTA**, MS, Health Sciences for Physician Assistants. Advisor: Carol Fiore. Thesis: *Determining the Efficacy of Entertainment-Education in Increasing Supportive Attitudes in Parents of Lesbian, Gay, and Bisexual Adolescents*.

**YOUNGER, TIFFANY**, MS, Clinical Epidemiology & Health Service Research. Advisor: Carla Boutin-Foster. Thesis: *Ecology of the Oppressed: Examining Psychological and Physiological Risks of Structural Racism Among Blacks or African Americans*.

**YUN, HYUNKYUNG**, MS, Healthcare Policy & Research. Advisor: Bruce Schackman. Thesis: *Optimal Timing of Prostate MRI for Improved Quality of Life*.

**ZUCKERMAN, KELSEY**, MS, Health Sciences for Physician Assistants. Advisor: Mayur Narayan. Thesis: *Postoperative Delirium Prevention with The Use of Atorvastatin in Critical Noncardiac Patients*.



**AL-MAZROU, AHMED MOHAMMED**, MS, Healthcare Policy & Research. Advisor: Mark Unruh. Thesis: *The impact of the Metabolic and Bariatric Surgery Accreditation and Quality Improvement Program (MBSAQIP) on the Performance of Bariatric Surgery.*

**BALLESTER-NAVARRO, MARÍA PURIFICACIÓN**, MS, Healthcare Policy & Research. Advisor: Yiye Zhang. Thesis: *Designing mHealth Population Health Surveillance Tools for Community Health Workers in Myanmar.*

**BANCROFT, HANNAH ELIZABETH**, MS, Healthcare Policy & Research. Advisor: William Schpero. Thesis: *Building a Social Determinants of Health Risk Model.*

**BARBALAT, GUILLAUME**, MS, Healthcare Policy & Research. Advisor: Sam Lu. Thesis: *Socio-Economic and Cultural Factors Associated with the Burden of Non-Communicable Diseases: An Analysis Using the Global Burden of Disease Data.*

**CAI, XIAO**, MS, Healthcare Policy & Research. Advisor: Kathy Zhou. Thesis: *Developing Lipidomic Signatures of the Tumor Microenvironment for Breast Cancer Risk Stratification.*

**CAI, JESSIE**, MS, Healthcare Policy & Research. Advisor: Samprit Banerjee. Thesis: *The REAL study: a nationwide prospective study of rheumatoid arthritis in Brazil.*

**CASPER, ANTHONY JOSEPH**, MS, Healthcare Policy & Research. Advisor: William Schpero. Thesis: *Building a Social Determinants of Health Risk Model.*

**CHANG, TIFFANY**, MS, Healthcare Policy & Research. Advisor: Aleks Savenkov. Thesis: *Modelling Colorectal Cancer Incidence and Deaths for Individuals with Lynch Syndrome.*

**CHEN, ZHIXIONG**, MS, Healthcare Policy & Research. Advisor: Mark Weiner. Thesis: *Is the Whole More or Less than the Sum of the Parts?*

**CHOW, ALBERT**, MS, Healthcare Policy & Research. Advisor: Yiye Zhang. Thesis: *Exploratory Data Analysis of Antimicrobial Resistance Patterns in Escherichia coli Clinical Isolates Using Associative Rule Mining.*

**D'ANGELO, SOPHIA ROSE**, MS, Healthcare Policy & Research. Advisor: Yiye Zhang. Thesis: *Cardiac Implantable Electronic Device Follow-Up: Assessment of U.S. Practice.*

**DAVIS, ALISON DANIELLE**, MS, Healthcare Policy & Research. Advisor: Yiye Zhang. Thesis: *Cardiac Implantable Electronic Device Follow-Up: Assessment of U.S. Practice.*

**ELMASRY, SHADY**, MS, Clinical & Translational Investigation. Advisors: Julianne Imperato-McGinley and Suzanne Maher. Thesis: *Quantifying the Art of Surgical Decision-Making in Total Knee Arthroplasty.*

**GLENN, NIJAH**, MS, Healthcare Policy & Research. Advisor: Yiye Zhang. Thesis: *Code Torsion.*

**HAI, YUJIE**, MS, Healthcare Policy & Research. Advisor: Ivan Diaz. Thesis: *Should We Return Patient-Reported Outcomes to Human Subjects Participants? - Exploring Ethical Obligations.*

**HAQUE, KANTA**, MS, Healthcare Policy & Research. Advisor: Yiye Zhang. Thesis: *Code Torsion.*

**HUA, ZHONGYAN**, MS, Healthcare Policy & Research. Advisor: Yiye Zhang. Thesis: *Cardiac Implantable Electronic Device Follow-Up: Assessment of U.S. Practice.*

**KANABAR, MEGHA ANIL**, MS, Healthcare Policy & Research. Advisor: William Schpero. Thesis: *Building a Social Determinants of Health Risk Model.*

**LI, JIAHE**, MS, Healthcare Policy & Research. Advisor: Yifan Peng. Thesis: *Detecting Classes of Heart Failure from Clinical Notes Using Text-Mining and Machine Learning.*

**LI, QIAOZHENG**, MS, Healthcare Policy & Research. Advisor: Yuhua Bao. Thesis: *COVID-19 and Life-Saving Medications for Opioid Use Disorder Among Medicaid Patients.*

**LI, XIANG**, MS, Healthcare Policy & Research. Advisor: Aleks Savenkov. Thesis: *Modelling Colorectal Cancer Incidence and Deaths for Individuals with Lynch Syndrome.*

**LIN, SHUTIAN**, MS, Healthcare Policy & Research. Advisor: Aleks Savenkov. Thesis: *Modelling Colorectal Cancer Incidence and Deaths for Individuals with Lynch Syndrome.*

**LU, JINFENG**, MS, Healthcare Policy & Research. Advisor: Elizabeth Sweeney. Thesis: *Developing a Shiny Interface for “Maplet” Analysis Pipelines.*

**MA, YUNQING**, MS, Healthcare Policy & Research. Advisor: Kathy Zhou. Thesis: *Exploring Metabolomics-Based Blood-Brain Connections in Alzheimer’s Disease.*

**MISTRY, PRATIK**, MS, Healthcare Policy & Research. Advisor: Kathy Zhou. Thesis: *Exploring Metabolomics-Based Blood-Brain Connections in Alzheimer’s Disease.*

**MUJEEBUDDIN, FARIHA**, MS, Healthcare Policy & Research. Advisor: William Schpero. Thesis: *Building a Social Determinants of Health Risk Model.*

**PATEL, SHREYA SANJAY**, MS, Healthcare Policy & Research. Advisor: Yifan Peng. Thesis: *Detecting Classes of Heart Failure from Clinical Notes Using Text-Mining and Machine Learning.*

**PRAH, MARIE-ANN EWURABENA**, MS, Healthcare Policy & Research. Advisor: Yiye Zhang. Thesis: *Cardiac Implantable Electronic Device Follow-Up: Assessment of U.S. Practice.*

**RAHMAN, SAANJAANA**, MS, Healthcare Policy & Research. Advisor: Jiani Yu. Thesis: *Assessing the Relationship Between Medicaid Coverage and Telehealth Utilization in the COVID-19 Pandemic.*

**SAARASWAT, MANYA**, MS, Healthcare Policy & Research. Advisor: Zachary Grinspan. Thesis: *The Trajectory of Health Services Utilization in Children with Epilepsy.*

**SANKY, DANIEL**, MS, Healthcare Policy & Research. Advisor: Arindam RoyChoudhury. Thesis: *Mortality in Interstitial Lung Disease Lung Transplantation Patients.*

**SHIPPEY, CAROLINE**, MS, Healthcare Policy & Research. Advisor: Yiye Zhang. Thesis: *Designing mHealth Population Health Surveillance Tools for Community Health Workers in Myanmar.*

**SI, XIUYING**, MS, Healthcare Policy & Research. Advisor: Samprit Banerjee. Thesis: *The REAL Study: A Nationwide Prospective Study of Rheumatoid Arthritis in Brazil.*

**SOGLUIZZO, KYLE**, MS, Healthcare Policy & Research. Advisor: Ivan Diaz. Thesis: *Should We Return Patient-Reported Outcomes to Human Subjects Participants? - Exploring Ethical Obligations.*

**SUN, YONGQI**, MS, Healthcare Policy & Research. Advisor: Samprit Banerjee. Thesis: *The REAL Study: A Nationwide Prospective Study of Rheumatoid Arthritis in Brazil*.

**TANG, MAN**, MS, Healthcare Policy & Research. Advisor: Yiye Zhang. Thesis: *Designing mHealth Population Health Surveillance Tools for Community Health Workers in Myanmar*.

**THANGARAJAH, MARYANNE**, MS, Healthcare Policy & Research. Advisor: Samprit Banerjee. Thesis: *Identifying Social Isolation in Electronics Health Records (EHR) and Social Media Data*.

**TIAN, YIQI**, MS, Healthcare Policy & Research. Advisor: Arindam RoyChoudhury. Thesis: *Mortality in Interstitial Lung Disease Lung Transplantation Patients*.

**UTAH, MICHELLE CHINEDUM NNEKA**, MS, Healthcare Policy & Research. Advisor: Yiye Zhang. Thesis: *Use of the MyEDCare App After an ED Discharge*.

**WEI, SIQI**, MS, Healthcare Policy & Research. Advisor: Kathy Zhou. Thesis: *Developing Lipidomic Signatures of the Tumor Microenvironment for breast Cancer Risk Stratification*.

**WU, YIFAN**, MS, Healthcare Policy & Research. Advisor: Elizabeth Sweeney. Thesis: *Developing a Shiny Interface for “Maplet” Analysis Pipelines*.

**XU, ZIZHUO**, MS, Healthcare Policy & Research. Advisor: Kathy Zhou. Thesis: *Developing Lipidomic Signatures of the Tumor Microenvironment for breast Cancer Risk Stratification*.

**ZHANG, ZIYIN**, MS, Healthcare Policy & Research. Advisor: Kathy Zhou. Thesis: *Exploring Metabolomics-Based Blood-Brain Connections in Alzheimer’s Disease*.

**ZHU, XIANG**, MS, Healthcare Policy & Research. Advisor: Elizabeth Sweeney. Thesis: *Developing a Shiny Interface for “Maplet” Analysis Pipelines*.

## DOCTORS OF PHILOSOPHY

August 17, 2020

**ASCIOLLA, JAMES JOHN**, PhD, Cell & Developmental Biology. Advisor: Marilyn Resh. Thesis: *Fatty Acylation of Secreted Signaling Proteins*.

**BABIJ, RACHEL ANN\***, PhD, Neuroscience. Advisor: Natalia DeMarco. Thesis: *Determinants of Local and Long-Range Connectivity in the Developing Somatosensory Cortex*.

**BARNES, KRISTOPHER MICHAEL**, PhD, Neuroscience. Advisor: Zhirong Bao. Thesis: *Spatial and Temporal Organization of Brain Morphogenesis at Single Cell Resolution: A Study in C. elegans*.

**BRUMFIELD, ALEXANDRIA M.**, PhD, Molecular Biology. Advisor: Timothy E. McGraw. Thesis: *Insights into Insulin Regulation of GLUT4 Trafficking at the TGN*.

**CAMPBELL, BENJAMIN COLIN**, PhD, Neuroscience. Advisor: Gregory Petsko. Thesis: *Structure-Guided Engineering of Chemically Stable Fluorescent Proteins for Super-Resolution Imaging*.

**CAMPBELL, NATHANIEL ROSENSTEIN\***, PhD, Physiology, Biophysics & Systems Biology. Advisors: Joao Xavier and Richard White. Thesis: *Diversity, Clusters and Cell Cooperation in Melanoma Metastasis*.

**CHO, SUNGYUN**, PhD, Cell & Developmental Biology. Advisor: John Blenis. Thesis: *Post-Transcriptional Regulation of RNA Metabolism by mTOR Signaling*.

**DUAN, ZHE RAN\***, PhD, Neuroscience. Advisor: Natalia DeMarco. Thesis: *Activity-Dependent Programs for the Assembly of GABAergic Circuits in the Somatosensory Cortex*.

**LI, XINGHUO**, PhD, Cell & Developmental Biology. Advisor: Renier Brentjens. Thesis: *Optimizing Chimeric Antigen Receptor (CAR) T Cells for an Enhanced and Broadened Anti-Tumor Immune Response via IL-36γ*.

**MACKAY, MATTHEW JOSEPH DONALD**, PhD, Tri-Institutional Computational Biology & Medicine Program. Advisor: Christopher Mason. Thesis: *Multi-Omic Risk Profiling and Genetically-Engineered Cellular Therapy Designs for Oncology and Aerospace Medicine*.

\* Cornell/Rockefeller/Sloan Kettering Tri-Institutional MD-PhD Student

**MCCANN, CHASE DANIEL**, PhD, Immunology & Microbial Pathogenesis. Advisor: R. Brad Jones. Thesis: *Identifying Mechanisms of Immune Evasion to Enhance Development of Immunotherapeutic Approaches for HIV Cure*.

**RAMALINGAM, PRADEEP**, PhD, Cell & Developmental Biology. Advisor: Jason Butler. Thesis: *Regulation of Hematopoiesis by the Vascular Endothelium*.

**XIANYU, ANJIN**, PhD, Physiology, Biophysics & Systems Biology. Advisors: Songhai Shi and Alexandra Joyner. Thesis: *Circuit Organization of the Thalamic Reticular Nucleus*.

**XUE, JENNY YAOHUA\***, PhD, Cell & Developmental Biology. Advisor: Piro Lito. Thesis: *Tumor Adaptation to Novel Mitogen-Activated Protein Kinase Signaling Inhibitors at Single-Cell Resolution*.

**YOMTOUBIAN, SHIRA**, PhD, Pharmacology. Advisor: Vivek Mittal. Thesis: *Inhibition of EZH2 Catalytic Activity Selectively Targets a Metastatic Subpopulation in Triple-Negative Breast Cancer*.

### **December 31, 2020**

**ABD WAHAB, SYAFIQ**, PhD, Molecular Biology. Advisor: Dirk Remus. Thesis: *Eukaryotic DNA Replication Requires Dual-Faceted Nucleosome Dynamics by Histone Chaperones and Controlled Origin Firing by Replicative Helicase Subunit MCM2 and Checkpoint Kinase RAD53*.

**DIAZ SALAZAR ALBELDA, CARLOS**, PhD, Immunology & Microbial Pathogenesis. Advisor: Joseph Sun. Thesis: *Cellular Determinants of the Natural Killer Cell Response to Viral Infections*.

**DOANE, ASHLEY STEPHEN**, PhD, Tri-Institutional Computational Biology & Medicine Program. Advisors: Olivier Elemento and Ari Melnick. Thesis: *Transcription Factor Pre-Positioning Facilitates Cell Fate Transition and Chromatin Architecture Changes in Humoral Immunity*.

**FASS, JOSHUA HANNA**, PhD, Tri-Institutional Computational Biology & Medicine Program. Advisor: John Chodera. Thesis: *Quantifying and Minimizing Predictive Uncertainty in Molecular Simulations*.

\* Cornell/Rockefeller/Sloan Kettering Tri-Institutional MD-PhD Student

**GORELICK, ALEXANDER NATHANIEL**, PhD, Tri-Institutional Computational Biology & Medicine Program. Advisor: Barry Taylor. Thesis: *Cryptic Driver Mutations in Cancer*.

**HAN, TENG**, PhD, Cell & Developmental Biology. Advisors: Lukas Dow and Yu Chen. Thesis: *Determining the Sensitivity and Resistance of WNT Inhibition in Colorectal Cancer*.

**IŞIK, MEHTAP**, PhD, Tri-Institutional Chemical Biology Program. Advisor: John Chodera. Thesis: *Advancing Small Molecule Physicochemical Property Predictions for Computational Drug Discovery*.

**KRISHNA, CHIRAG**, PhD, Tri-Institutional Computational Biology & Medicine Program. Advisors: Timothy Chan and Christina Leslie. Thesis: *Molecular Determinants of Patient Response to Cancer Immunotherapy*.

**LEVINE, OLIVIA BROOKE**, PhD, Neuroscience. Advisor: Kristen Pleil. Thesis: *The Paraventricular Thalamus Provides a Polysynaptic Brake on Limbic CRF Neurons to Sex-Dependently Blunt Binge Alcohol Drinking and Avoidance Behavior*.

**LIN, TING-YU**, PhD, Cell & Developmental Biology. Advisor: Lewis Cantley. Thesis: *Acute Induction of Insulin Resistance by Phosphorylation-Dependent Inhibition of PI3K P110 Alpha*.

**MEZIAS, CHRISTOPHER**, PhD, Neuroscience. Advisor: Ashish Raj. Thesis: *Modeling Spatiotemporal Development of Tau Pathology in Mouse Models Using Directed Whole Brain Connectivity Networks*.

**NIXON, BRIANA GLYN**, PhD, Immunology & Microbial Pathogenesis. Advisor: Ming Li. Thesis: *Tissue-Resident Innate Immunity in Health and Cancer*.

**ODAK, ASHLESHA**, PhD, Cell & Developmental Biology. Advisor: Michel Sadelain. Thesis: *Identification and Targeting of Novel Genomic Safe Harbors for Effective Human Gene Therapy*.

**SCOTT, ANDREW CROSBIE**, PhD, Immunology & Microbial Pathogenesis. Advisor: Andrea Schietinger. Thesis: *The Role of TOX in T Cell Differentiation and Function*.

**SER, ZHENG**, PhD, Tri-Institutional Chemical Biology Program. Advisor: Alex Kentsis. Thesis: *Elucidation of Structure and Interactions of DNA Binding Protein Complexes Through Mass Spectrometry Proteomics*.

**SHI, JAY\***, PhD, Cell & Developmental Biology. Advisor: Jennifer Zallen. Thesis: *The Regulators of Cell Architecture in Remodeling Tissues*.

**STERN, CHAYA**, PhD, Tri-Institutional Chemical Biology Program. Advisor: John Chodera. Thesis: *Improving Molecular Mechanics Force Fields via Capturing Non-Local Quantum Effects and Quantifying Parametric Uncertainties*.

**YUSUFOVA, NEVIN**, PhD, Molecular Biology. Advisor: Ari Melnick. Thesis: *Nuclear Architecture and Epigenetic Mechanisms of Histone 1 Deficiency within Humoral Immune Response and Lymphomagenesis*.

**May 20, 2021**

**ASI, NIMRA**, PhD, Cell & Developmental Biology. Advisor: Timothy A. Ryan. Thesis: *Dynamics of GLUT4 at Neuronal Dendrites*.

**BANKS, KELLY MADIGAN\***, PhD, Cell & Developmental Biology. Advisor: Todd R. Evans. Thesis: *Regulation of Neutrophil Development and Function by Tet Proteins*.

**BEBERNITZ, CHRISTINA E.**, PhD, Pharmacology. Advisor: Renier Brentjens. Thesis: *Interleukin 12 and Interleukin 18 Combination Improves Activation of Adoptively Transferred T Cells in Solid Tumors*.

**DACEK, MEGAN M.**, PhD, Pharmacology. Advisor: David A. Scheinberg. Thesis: *Potentiating Innate Immunity with Engineered CAR T Cells*.

**DAS, TAPOJYOTI**, PhD, Biochemistry & Structural Biology. Advisor: David Eliezer. Thesis: *Structure-Function Analysis of a Model for Alpha-Synuclein Function*.

**DHAMALA, ELVISHA**, PhD, Neuroscience. Advisor: Amy Kuceyeski. Thesis: *Multimodal Connectome Mapping of Sex Differences and Cognitive Abilities: A Machine Learning Approach*.

**DIXON, GARY RAYMOND**, PhD, Cell & Developmental Biology. Advisor: Danwei Huangfu. Thesis: *Uncovering Regulators of DNA Methylation in Human Embryonic Stem Cells*.

\* Cornell/Rockefeller/Sloan Kettering Tri-Institutional MD-PhD Student



**FUNNELL, TYLER ANDREW**, PhD, Tri-Institutional Computational Biology & Medicine Program. Advisor: Sohrab Shah. Thesis: *Genomic Consequences of Breast and Ovarian Cancer Mutational Processes in Patient Populations and Single Cells*.

**GARG, VIDUR**, PhD, Cell & Developmental Biology. Advisor: Anna-Katerina Hadjantonakis. Thesis: *Cell Fate Specification in the Mouse Blastocyst and the Emergence of Pluripotency*.

**GOTTSHALL, JACKIE L.**, PhD, Neuroscience. Advisor: Nicholas Schiff. Thesis: *Sleep-Specific Biomarkers of Large-Scale Brain Function in Chronic Disorders of Consciousness*.

**KUNAR JR., BALVIR**, PhD, Physiology, Biophysics & Systems Biology. Advisor: Shahin Rafii. Thesis: *Characterization of Organ-Level Specification of Murine Vascular Endothelial Cells from Embryonic-Stage to Post-Puberty Adulthood*.

**LEE, CHAN**, PhD, Cell & Developmental Biology. Advisor: Michael Overholtzer. Thesis: *Mechanisms of Lysosome Turnover*.

**LEE, JONGHAN**, PhD, Tri-Institutional Chemical Biology Program. Advisor: Derek Tan. Thesis: *Targetable Cellular Micropharmacies: Engineering CAR-T Cells to Activate Small Molecule Prodrugs*.

**NIE, PENGJU**, PhD, Pharmacology. Advisor: Yueming Li. Thesis: *Development of Chemical Probes for Cancer and Neurodegenerative Diseases: From Imaging to Mechanistic Insights*.

**PELHAM-WEBB, BARBARA\***, PhD, Physiology, Biophysics & Systems Biology. Advisor: Effie Apostolou. Thesis: *The Molecular Resetting of Pluripotent Stem Cell Identity during Mitotic Exit*.

**RICKETTS, CAMIR NEVILLE**, PhD, Tri-Institutional Computational Biology & Medicine Program. Advisor: Iman Hajirasouliha. Thesis: *Method Development for Comprehensive Analysis of Somatic Structural Variants and Tumor Phylogeny Inference*.

**SAHIN, MERVE**, PhD, Tri-Institutional Computational Biology & Medicine Program. Advisor: Christina Leslie. Thesis: *Quantitative Methods for Integrated Analysis of Chromosome Conformation Capture Data*.

\* Cornell/Rockefeller/Sloan Kettering Tri-Institutional MD-PhD Student

**SCHRADER, SARAH MICHELLE\***, PhD, Immunology & Microbial Pathogenesis. Advisors: Carl F. Nathan and Julien Vaubourgeix. Thesis: *Perturbation of Arginine Biosynthesis in Mycobacteria Elicits Multiple Forms of Resistance to Antibiotics with Other Targets.*

**SHAKIBA, MOJDEH**, PhD, Physiology, Biophysics & Systems Biology. Advisor: Andrea Schietinger. Thesis: *Drivers of CD8 T Cell Dysfunction in Tumors.*

**SMITH, ALISON ELIZABETH**, PhD, Cell & Developmental Biology. Advisor: Sarat Chandarlapaty. Thesis: *Activation and Regulation of PI3K and MAPK Pathways in Breast Cancer.*

**TANG, FANYING**, PhD, Molecular Biology. Advisor: Ekta Khurana. Thesis: *Identification and Characterization of Novel Subtypes of Castration-Resistant Prostate Cancer.*

**THIBADO, JORDANA KATHRYN**, PhD, Physiology, Biophysics & Systems Biology. Advisor: Joshua Levitz. Thesis: *Deciphering Transmembrane Domain Assembly and Activation in Metabotropic Glutamate Receptors.*

**WIEWIORA, RAFAL PIOTR**, PhD, Tri-Institutional Chemical Biology Program. Advisor: John Chodera. Thesis: *Rigorous Construction of Markov State Models for Conformationally Selective Drug Design.*

**WOHLHIETER, CORRIN A.**, PhD, Pharmacology. Advisor: Charles Rudin. Thesis: *Concurrent Mutations in STK11 and KEAP1 Promote Ferroptosis Protection and SCD1 Dependence in Lung Cancer.*

**XU, KE**, PhD, Immunology & Microbial Pathogenesis. Advisor: Ming Li. Thesis: *Metabolic Regulation of T Cell Immunity.*

\* Cornell/Rockefeller/Sloan Kettering Tri-Institutional MD-PhD Student