



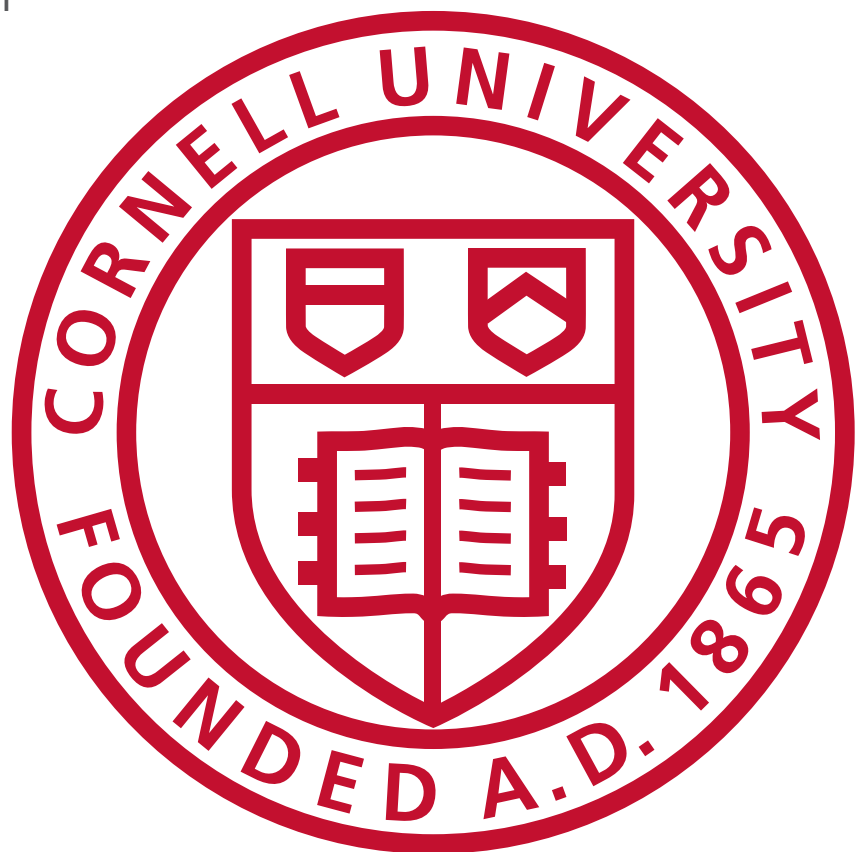
Weill Cornell
Medicine

Weill Cornell Medical College

**Weill Cornell Graduate School
of Medical Sciences**

Commencement

Thursday, May Twenty-Eighth
Two Thousand and Twenty
Noon



Program

Presentation of the Academic Assembly

David P. Hajjar, PhD
Mace-bearer

Invocation

The Reverend Dr. Beth Faulk Glover
Corporate Director of Pastoral Care and Education
NewYork-Presbyterian

Dean's Address to the Graduating Class

Augustine M.K. Choi, MD
Stephen and Suzanne Weiss Dean, Weill Cornell Medicine
Provost for Medical Affairs, Cornell University

President's Address to the Graduating Class

Martha E. Pollack, PhD
President, Cornell University

Graduate School of Medical Sciences Dean's Address to the Graduating Class

Barbara L. Hempstead, MD, PhD
Dean, Weill Cornell Graduate School of Medical Sciences

Introduction of the Graduate School of Medical Sciences Student Speaker

Dean Hempstead

Address by the Student Speaker

Pradeep Ambrose
Weill Cornell Graduate School of Medical Sciences

Presentation of the Candidates for the Degree of Master of Science

Dean Hempstead

Conferment of the Degree of Master of Science

President Pollack

Presentation of the Candidates for the Degree of Doctor of Philosophy

Dean Hempstead

Conferment of the Degree of Doctor of Philosophy

President Pollack

Presentation of the Graduate School of Medical Sciences Alumni Award of Distinction to Kornelia Polyak, MD, PhD '95

Dean Hempstead

Introduction of the Medical College Student Speaker

Yoon Kang, MD
Senior Associate Dean for Medical Education
Weill Cornell Medical College

Address by the Student Speaker

Jason Silberman, MD '20
Weill Cornell Medical College

Administration of the Hippocratic Oath

Dean Choi

Presentation of the Candidates for the Degree of Doctor of Medicine

Dean Kang

Conferment of the Degree of Doctor of Medicine

President Pollack

Presentation of the Medical College Alumni Association Award of Distinction to Henry Masur, MD '72

Natasha I. Leibel, MD '98
President, Weill Cornell Medical College Alumni Association

Special Message

Anthony S. Fauci, MD '66
Director, National Institute of Allergy and Infectious Diseases

Farewell to the Graduates

Dean Choi

Alma Mater | Music & Medicine

Artistic Director: Richard Kogan, MD
Piano: Stacy Joo '20; Violin: Jenny Xia '20;
Vocalists: Brittany Abel '20, Jonathan Galati '20,
Mitali Kini '20, Nicole Luche '20, Jae Seong No '21

Benediction

Reverend Glover

Adjournment of Commencement Ceremonies

David P. Hajjar, PhD

Musical Intro/Outro | Music & Medicine

Drums: Anurag Goel '21; Guitar: Kevin Oh '20;
Guitar and Vocals: Jae Seong No '21; Keyboard:
Stacy Yujin Joo '20; Vocalists: Brittany Abel '20,
Maria Passarelli (MD/PhD entering 2015)

Recipients of Degrees 2020

Weill Cornell Medical College

**Weill Cornell Graduate School
of Medical Sciences**

Masters of Science

August 19, 2019

Grant Ellsworth, MS, Clinical and Translational Investigation. Advisors: Yuan-Shan Zhu and Timothy Wilkin. **Thesis:** *Cepheid Xpert HPV as a Screen for Anal HSIL in Women Living with HIV: Analysis of Store Specimens from AIDS Malignancy Consortium 084.*

Caitlin Krystyna Gribbin, MS, Clinical and Translational Investigation. Advisors: Olaf Andersen and Yariv Houvras. **Thesis:** *A Total Synthetic Approach to CRISPR/Cas9 Genome Editing and Homology Directed Repair.*

Holly Rand, MS, Physician Assistants. Advisor: Sam Senturia. **Thesis:** *The Effect of a Community Based Outreach and Education Program on Out-of-Hospital Cardiac Arrest Outcomes.*

Yuma Tada, MS, Cell and Developmental Biology. Advisor: Lydia Finley.

Lauren Suhk Ying Tufts, MS, Clinical and Translational Investigation. Advisors: Martin Weiser and Paul Christos. **Thesis:** *Longitudinal Changes in ctDNA During Multimodality Neoadjuvant Treatment in Rectal Cancer Patients.*

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December 31, 2019

Erum Ahmed, MS, Healthcare Policy and Research. Advisor: Jessica Ancker. **Thesis:** *Evaluation of a Support Chatbot for Weill Cornell's ITS Website.*

Jingjing Bai, MS, Healthcare Policy and Research. Advisor: Iván Díaz. **Thesis:** *Predict Readmission in Patients with TKA Using Large Datasets of Healthcare Financial Claims.*

Yu Cai, MS, Healthcare Policy and Research. Advisors: Paul Christos and Xiaoyue (Rebecca) Ma. **Thesis:** *Racial and Regional Differences in Active Surveillance for Low-Risk Prostate Cancer in the United States.*

Dingxuan Chen, MS, Healthcare Policy and Research. Advisor: Linda Gerber. **Thesis:** *Patient Selection for Treatment in Resource Constrained Settings.*

Mingcan Du, MS, Healthcare Policy and Research. Advisor: Lawrence P. Casalino. **Thesis:** *Inaccurate HCC Coding Identification and Improvement for New York Quality Care.*

Jackie L. Gottshall, MS, Clinical Epidemiology and Health Service Research. Advisors: Carla Boutin-Foster and Mary Charlson. **Thesis:** *Sleep-Specific Markers of Wakeful Brain Activation in the Minimally Conscious State.*

Taehoon Ha, MS, Healthcare Policy and Research. Advisor: Xi Kathy Zhou. **Thesis:** *Application of a Bayesian Model Averaging Method to Observational Metabolomics Data Analysis.*

Wanyi He, MS, Healthcare Policy and Research. Advisor: Samprit Banerjee. **Thesis:** *Risk Prediction for CHF Patients with NLP.*

Yifan Liu, MS, Healthcare Policy and Research. Advisor: Samprit Banerjee. **Thesis:** *Social Disparities and the Diagnosis of COVID-19.*

Yijing Lu, MS, Healthcare Policy and Research. Advisors: Jihui Lee and Meghan Reading Turchioe. **Thesis:** *Characterizing Engagement Among AF Patients Self-monitoring with Mobile Health.*

Anduo Lyu, MS, Healthcare Policy and Research. Advisor: Arindam RoyChoudhury. **Thesis:** *Procedure Preference and Outcomes After Listing for Lung Transplantation Among Adult COPD Patients.*

Yingtong Lyu, MS, Healthcare Policy and Research. Advisor: Samprit Banerjee. **Thesis:** *Understanding the Effect of Calcitriol on Hypercalcemic Solid Tumor Patients.*

Laura Melville, MS, Clinical Epidemiology and Health Service Research. Advisors: Carol Mancuso and Robert Birkhahn. **Thesis:** *The Utility of the Appendicitis Likelihood Model in Predicting Appendicitis in Adult and Pediatric Patients with Abdominal Pain Suspicious for Appendicitis and Pediatric Appendicitis: An Overview and Systematic Review of the Relative Utility of Pediatric Appendicitis Clinical Decision Tools.*

Siyang Pei, MS, Healthcare Policy and Research. Advisor: Samprit Banerjee. **Thesis:** *NLP & Image Processing for Outfit Recommendation.*

Masters of Science

December 31, 2019 *(continued)*

David Price, MS, Clinical and Translational Investigation. Advisors: Olaf Andersen and Augustine M.K. Choi. **Thesis:** *Neutropenia is Associated with Acute Respiratory Distress Syndrome (ARDS) Development, a Hyperinflammatory Subphenotype of ARDS with Increased Mortality.*

Xuewei Quan, MS, Healthcare Policy and Research. Advisor: Oleksandr Savenkov. **Thesis:** *Elevated Blood Pressure and Mortality for HIV-Infected Adults (Meta-Analysis of Individual Patient Data from 3 Different Clinical Trials in Haiti, Tanzania, and India).*

Maria Serrano De Sousa Frias, MS, Clinical and Translational Investigation. Advisors: Yuan-Shan Zhu and David Foster. **Thesis:** *Targeting Phosphatidic Acid Production in Cancer Cells.*

Moushumi Rani Sharma, MS, Healthcare Policy and Research. Advisor: Zachary Grinspan. **Thesis:** *Does Prehabilitation Before Knee Joint Arthroplasty Help Surgical Outcomes?*

Kiel Telesford, MS, Clinical and Translational Investigation. Advisors: Anthony Brown and Timothy Vartanian. **Thesis:** *Black African & Latino/a Identity Correlates with Increased Plasmablasts in Multiple Sclerosis.*

Shu Wang, MS, Healthcare Policy and Research. Advisor: Ruth Masterson Creber. **Thesis:** *mHealth Population Surveillance in Myanmar.*

Yi Wang, MS, Healthcare Policy and Research. Advisor: Zachary Grinspan. **Thesis:** *Children with Epilepsy - Using Medicaid Data to Understand State-to-State Variations in Care.*

Huaian Yu, MS, Healthcare Policy and Research. Advisor: Samprit Banerjee. **Thesis:** *NLP & Image Processing for Outfit Recommendation.*

Hao Zeng, MS, Healthcare Policy and Research. Advisor: Samprit Banerjee. **Thesis:** *Understanding the Effect of Calcitriol on Hypercalcemic Solid Tumor Patients.*

Hongzhe Zhang, MS, Healthcare Policy and Research. Advisor: Zhengming Chen. **Thesis:** *Expanding HIV Testing Among Adults Who Utilize Traditional Healers.*

Zixuan Zhang, MS, Healthcare Policy and Research. Advisor: Xi Kathy Zhou. **Thesis:** *Longitudinal Clinical Data Analysis for Patients with Heart Failure with Preserved Ejection Fraction.*

Botao Zhou, MS, Healthcare Policy and Research. Advisor: Arindam RoyChoudhury. **Thesis:** *Does Body Composition Mediate the Relationship Between Physical Performance and Strength as Older Adults Develop Frailty?*

May 28, 2020

Vakas Ahmad, MS, Physician Assistant. Advisor: Sam Senturia. **Thesis:** *Use of a Selective Beta-Blocker, Esmolol, in Conjunction with Epinephrine in Out-of-Hospital Cardiac Arrest to Improve Long-Term Neurological Functioning.*

Morgan Jacqueline Ammori, MS, Physician Assistant. Advisor: Carol Mancuso. **Thesis:** *Low Light Laser Therapy in Conjunction with Pharmacologic Intervention for the Management of Rheumatoid Arthritis.*

Katerina Andreadis, MS, Healthcare Policy and Research. Advisor: Jessica Ancker. **Thesis:** *A Chance of Clouds: Forecast of Risk.*

Ruth Antoine, Executive MBA, MS, Healthcare Policy and Research. Advisor: Bruce Schackman.

Adeel Anwer, Executive MBA, MS, Healthcare Policy and Research. Advisor: Bruce Schackman.

Chukwuemeka Anyamele, Executive MBA, MS, Healthcare Policy and Research. Advisor: Bruce Schackman.

Thomas Aprea, Executive MBA, MS, Healthcare Policy and Research. Advisor: Bruce Schackman.

Katherine Elizabeth Armstrong, MS, Clinical and Translational Investigation. Advisors: Dean Bajorin and Gerald Soff. **Thesis:** *Hematologic Complications of Cancer Therapy.*

Oscar Bach, MS, Physician Assistant. Advisor: Joshua Dines. **Thesis:** *Comparison of Platelet-Rich Plasma, Bone Marrow Mesenchymal Stem Cells, Adipose-Derived Mesenchymal Stem Cells, and Placebo in the Treatment of Knee Osteoarthritis.*

Masters of Science

May 28, 2020 (continued)

Van Hamilton Barbeau, Executive MBA, MS, Healthcare Policy and Research. Advisor: Bruce Schackman.

Adrienne Benn, Executive MBA, MS, Healthcare Policy and Research. Advisor: Bruce Schackman.

Steven I. Berk, Executive MBA, MS, Healthcare Policy and Research. Advisor: Bruce Schackman.

Chandrima Bhattacharya, MS, Computational Biology. Advisor: Christopher E. Mason. **Thesis:** *Decoding the Cryptic Metagenome: A Deep Dive Into Gene Clusters and Taxonomy of Microbiome.*

Charlotte Burkhardt Butker, MS, Physician Assistant. Advisor: David Hajjar. **Thesis:** *Blue-Enriched Phototherapy: A Strategy for Decreasing Medical Errors on the Night Shift.*

Alan Lindsay Butler, Executive MBA, MS, Healthcare Policy and Research. Advisor: Bruce Schackman.

Shannon Campbell, MS, Physician Assistant. Advisor: Keith LaScalea. **Thesis:** *The Use of Metformin as Primary Prevention of Major Adverse Cardiac Events in Euglycemic Patients.*

Ashley Cardarelli, Executive MBA, MS, Healthcare Policy and Research. Advisor: Bruce Schackman.

Ethan Chi-Win Chan, MS, Healthcare Policy and Research. Advisor: Jessica Ancker. **Thesis:** *A Chance of Clouds: Forecast of Risk.*

Linda Oy-Nee Chan-Lok, MS, Physician Assistant. Advisor: Keith LaScalea. **Thesis:** *Impact of Glycemic Control and Health Literacy on Healing Rates of Diabetic Foot Ulcers.*

Aafia Chaudhry, Executive MBA, MS, Healthcare Policy and Research. Advisor: Bruce Schackman.

Kirsten Marie Cole, Executive MBA, MS, Healthcare Policy and Research. Advisor: Bruce Schackman.

Sebastian Sattui Cortes, MS, Clinical Epidemiology and Health Service Research. Advisor: Robert Spiera. **Thesis:** *Adverse Health Outcomes of Aging in Elderly Patients with Inflammatory Rheumatologic Conditions.*

Rachel Michelle D'Amato, MS, Physician Assistant. Advisor: Carl Crawford. **Thesis:** *The Use of Propranolol for Non-Specific Beta-Adrenergic Blockade to Target Gastrointestinal Manifestations and Improve Quality of Life in Hypermobile Ehlers-Danlos Syndrome Patients with Autonomic Dysfunction.*

Eliane Dabbah, MS, Physician Assistant. Advisor: Thanakorn Jirasevijinda. **Thesis:** *Efficacy of the Specific Carbohydrate Diet for the Treatment of Patients with Active, Severe, Biologic-Refractory Inflammatory Bowel Disease.*

Joanna Dalton Ayoung, Executive MBA, MS, Healthcare Policy and Research. Advisor: Bruce Schackman.

Jesse Lee Davis, Executive MBA, MS, Healthcare Policy and Research. Advisor: Bruce Schackman.

Monique Maria De Four Jones, Executive MBA, MS, Healthcare Policy and Research. Advisor: Bruce Schackman.

Anjali Desai, MS, Clinical Epidemiology and Health Service Research. Advisors: Judith Nelson and Laura Robbins. **Thesis:** *Design and Development of an Innovative "Patient Values Tab" in the Electronic Health Record: Incorporation of Patients' Personal Values in the Process of Oncologic Care.*

Shahzad Dhanani, Executive MBA, MS, Healthcare Policy and Research. Advisor: Bruce Schackman.

Mary Nicole Lillian Diemert, MS, Physician Assistant. Advisor: Sam Senturia. **Thesis:** *Timeliness of Diagnosis and Treatment of Closed Upper Extremity Fractures in Adults in Emergency Department Versus Orthopedic Urgent Care Centers.*

Caryn Hayley Epstein, MS, Physician Assistant. Advisor: Thanakorn Jirasevijinda. **Thesis:** *Use of Longitudinal Educational Workshops Co-Facilitated by Providers and Parents to Increase MMR Vaccination in Children of Vaccine-Hesitant Parents.*

Vanessa Ann Fabrizio, MS, Clinical and Translational Investigation. Advisors: Yuan-Shan Zhu and Susan Prockop. **Thesis:** *Immune Reconstitution After Adoptive Cellular Therapy.*

Masters of Science

May 28, 2020 (continued)

Parisa Fallahi, MS, Physician Assistant. Advisor: Laura Riley. **Thesis:** *Omega-3 Fatty Acid Supplementation: A Potential Treatment for Acne Vulgaris in Pregnant Women.*

Colleen Allison Fay, MS, Physician Assistant. Advisor: Joseph Murray. **Thesis:** *The Role of Psychological Care in Early Palliative Care Interventions.*

Michael Pasquale Formica, MS, Physician Assistant. Advisor: Jeffrey Dayton. **Thesis:** *Aortic Valve Replacement in the Pediatric Population: A Study on Post-Operative Quality of Life.*

Aleiya Gafar, Executive MBA, MS, Healthcare Policy and Research. Advisor: Bruce Schackman.

Gabrielle Gaspard, Executive MBA, MS, Healthcare Policy and Research. Advisor: Bruce Schackman.

Paul Thomas Gaudin, MS, Computational Biology. Advisor: Michael Berger. **Thesis:** *Allelic Imbalance and Fragment Length Analysis for the Detection of Copy Number Variations and Circulating Tumor DNA.*

Mario Gaudino, Executive MBA, MS, Healthcare Policy and Research. Advisor: Bruce Schackman.

Lisa Gelbman, Executive MBA, MS, Healthcare Policy and Research. Advisor: Bruce Schackman.

Julie Zuckerman Gessin, Executive MBA, MS, Healthcare Policy and Research. Advisor: Bruce Schackman.

Elena Gkrouzman, MS, Clinical and Translational Investigation. Advisors: Alvin Mushlin and Doruk Erkan. **Thesis:** *Antiphospholipid Antibody Profile Stability Over Time: Prospective Results from Antiphospholipid Syndrome Alliance for Clinical Trials and International Networking (APS ACTION) Clinical Database and Repository.*

Jonathan Glazer, MS, Healthcare Policy and Research. Advisor: Nathaniel Hupert. **Thesis:** *The Amazonification of Physicians.*

Cristhian Augusto Gonzalez, Executive MBA, MS, Healthcare Policy and Research. Advisor: Bruce Schackman.

Dana M. Hash-Campbell, MS, Physician Assistant. Advisor: Peter Sculco. **Thesis:** *Predicting Functional Outcomes Post Total Hip Arthroplasty in Women Under 50.*

Theophilus Bryant Hill, Executive MBA, MS, Healthcare Policy and Research. Advisor: Bruce Schackman.

Samuel Isaac, MS, Healthcare Policy and Research. Advisors: Curtis Cole and Geraldine McGinty. **Thesis:** *The Cost Analysis of Physician Credentialing.*

Victoria Jimenez, MS, Healthcare Policy and Research. Advisor: Ruth Masterson Creber. **Thesis:** *Machine Learning in Edema Detection.*

Olajumoke Jimoh, MS, Healthcare Policy and Research. Advisors: Curtis Cole and Geraldine McGinty. **Thesis:** *The Cost Analysis of Physician Credentialing.*

Carrie D. Johnston, MS, Clinical and Translational Investigation. Advisors: Marshall Glesby and Yuan-Shan Zhu. **Thesis:** *HIV, Inflammation, and Mitochondrial DNA in Older Adults with HIV.*

Sharise Armani Jones, MS, Healthcare Policy and Research. Advisor: Sean M. Murphy. **Thesis:** *Has Implementing a No-Show Policy Affected No-Show Rates?*

Jackly Juprasert, MS, Clinical Epidemiology and Health Service Research. Advisor: Heather Yeo. **Thesis:** *Supporting Academic Surgeons & Understanding the Public Perception of Opioids After Surgery.*

Charishma Kasipathi, MS, Physician Assistant. Advisor: Joseph Murray. **Thesis:** *Sleep Deprivation Leading to Burnout and Depression: A Focus on Physician Assistants throughout the United States.*

Chhavi Katyal, Executive MBA, MS, Healthcare Policy and Research. Advisor: Bruce Schackman.

Niloufer Khan, MS, Clinical Epidemiology and Health Service Research. Advisor: Steven Horowitz. **Thesis:** *Optimizing Outcomes for Patients with High Risk Hematologic Malignancies.*

Masters of Science

May 28, 2020 (continued)

Maiko Kondo, MS, Clinical and Translational Investigation. Advisors: Yuan-Shan Zhu and David Calfee. **Thesis:** *Implementation of Rapid Molecular Diagnostic Tests and Antimicrobial Stewardship Involvement in Acute Care Hospitals.*

Simone Susanne Krebs, MS, Clinical and Translational Investigation. Advisors: Dean Bajorin and Steven Larson. **Thesis:** *Developing Tracking Strategies for Monitoring Clinical Cell Therapy Trials.*

Spencer Krichevsky, MS, Healthcare Policy and Research. Advisor: Fei Wang. **Thesis:** *Data-Driven Model for Clinical Phenotyping and Classification of Patients with Myeloproliferative Neoplasms.*

Atul Kukar, Executive MBA, MS, Healthcare Policy and Research. Advisor: Bruce Schackman.

Anna Kuo, MS, Physician Assistant. Advisor: Alexander Merkle. **Thesis:** *Effects of High-Intensity Aerobic Activity on Cognitive Function in Sub-Acute Stroke Rehabilitation.*

Nisha A. Lakhi, Executive MBA, MS, Healthcare Policy and Research. Advisor: Bruce Schackman.

Daniel Jonathan Lakoff, Executive MBA, MS, Healthcare Policy and Research. Advisor: Bruce Schackman.

Rita Joyce Lee, MS, Physician Assistant. Advisor: Hooman Yaghoobzadeh. **Thesis:** *Efficacy of Sacubitril/Valsartan in the Treatment of Women with Heart Failure with Preserved Ejection Fraction.*

Noah Lincoff, Executive MBA, MS, Healthcare Policy and Research. Advisor: Bruce Schackman.

Tiffany Wai-Yun Liu, MS, Physician Assistant. Advisor: Randi Silver. **Thesis:** *Early Time Restricted Feeding on the Reversal of Insulin Resistance in Type 2 Diabetics on Metformin.*

Candice Lopez, MS, Physician Assistant. Advisor: Devika Gajria. **Thesis:** *Metronomic Chemotherapy and Immunotherapy for Triple Negative Breast Cancer.*

Reed Magleby, MS, Healthcare Policy and Research. Advisor: Fei Wang. **Thesis:** *A Machine Learning Framework to Predict Antibiotic Resistance Among *Pseudomonas aeruginosa*.*

Douglas Mansell, MS, Clinical Epidemiology and Health Service Research. Advisor: Robert Foronjy. **Thesis:** *Time to Degree: The Effects of Vitamin D and Airway Inflammation in Pediatric Asthmatics.*

Keri Elizabeth Martin, MS, Healthcare Policy and Research. Advisor: Sameer Malhotra. **Thesis:** *Implementation and Evaluation of a Real-Time Online Summary of Team Resources to Support Care Coordination.*

Arlene Martinez-Rivera, MS, Clinical Epidemiology and Health Service Research. Advisor: Anjali Rajadhyaksha. **Thesis:** *Can L-Type Calcium Channel Blockers Be Re-Purposed to Treat Cocaine Addiction?*

Rebecca Miller, MS, Physician Assistant. Advisor: Joshua Dines. **Thesis:** *3D BLB Tissue Engineered Graft for Anterior Cruciate Ligament Reconstruction.*

Ayana Morales, MS, Clinical and Translational Investigation. Advisors: Marshall Glesby and Ethel Cesarman. **Thesis:** *The Role of Wilms' Tumor 1 (WT1) in Kaposi Sarcoma Herpesvirus Oncogenesis.*

Rekha Rani Murali, MS, Computational Biology. Advisor: Dan Landau. **Thesis:** *Single-Cell Multi-Omics Reveal Epigenetic Changes in DNMT3A-R882C Mutant Cells.*

Rajeev Narayanan, Executive MBA, MS, Healthcare Policy and Research. Advisor: Bruce Schackman.

Emilee Anne Nawa, MS, Physician Assistant. Advisor: Sam Senturia. **Thesis:** *Incidence of Post-traumatic Stress Disorder in Individuals Who Perform Cardiopulmonary Resuscitation on a Family Member.*

Eric Richard Nelson, MS, Physician Assistant. Advisor: Carl Crawford. **Thesis:** *Standardizing Proton Pump Inhibitor Therapy Discontinuation.*

Ann Ni, MS, Physician Assistant. Advisor: David Otterburn. **Thesis:** *A Comparative Study of Dermal Regeneration Templates: % Take and Vascularization of Biodegradable Temporising Matrix (BTM) Versus Integra®.*

Jamie Nieto, Executive MBA, MS, Healthcare Policy and Research. Advisor: Bruce Schackman.

Masters of Science

May 28, 2020 (continued)

Andrew Carl Nitz, MS, Physician Assistant. Advisor: David Hajjar. **Thesis:** *Waon Therapy as a Tool for Long Term Management of Heart Failure with Reduced Ejection Fraction.*

Mussa Kelvin Nsanya, MS, Clinical Epidemiology and Health Service Research. Advisors: Daniel Fitzgerald and Robert Peck. **Thesis:** *Prevalence of High Blood Pressure and Associated Factors Among Adolescents Enrolled in an Ongoing Cohort Study in Mwanza City, Northwestern Tanzania.*

Tara Jeanne O'Donohue, MS, Clinical and Translational Investigation. Advisors: Mary Jo Ward and Filemon Sorillo Dela Cruz. **Thesis:** *The Role of ALK in Neuroblastoma: Evaluating Clinical Impact and Exploring Novel Therapies.*

Minha Park, MS, Healthcare Policy and Research. Advisor: Jessica Ancker. **Thesis:** *A Chance of Clouds: Forecast of Risk.*

Trishul Patel, Executive MBA, MS, Healthcare Policy and Research. Advisor: Bruce Schackman.

Silvana Alice Gomes Pedra Nobre, MS, Clinical Epidemiology and Health Service Research. Advisor: Jennifer Mueller. **Thesis:** *Surveillance Patterns in Women with Early Stage Cervical Cancer and Survival Outcomes in Women with Uterine Leiomyosarcoma.*

Yilian Perez, MS, Physician Assistant. Advisor: Katherine Hajjar. **Thesis:** *Topical Treatment of Chronic Wounds with Manuka Honey Plus Rifampicin.*

Katherine Peterson, Executive MBA, MS, Healthcare Policy and Research. Advisor: Bruce Schackman.

Amy Patrice Pinney-Levine, Executive MBA, MS, Healthcare Policy and Research. Advisor: Bruce Schackman.

Celine Pourmoradi, MS, Physician Assistant. Advisor: Chris Creatura. **Thesis:** *Relative Safety of Self-Managed Versus Clinician-Guided Medication Abortion in the United States.*

Ruhina Binte Rafiq, MS, Cell and Developmental Biology. Advisor: Todd Evans.

Nirupa Raghunathan, MS, Clinical and Translational Investigation. Advisors: Dean Bajorin and Emily S. Tonorezos. **Thesis:** *Communicating Cardiovascular Risk to High Risk Cancer Survivors: A Mixed Methods Pilot Study of a Statin Risk Communication Tool.*

Ivy Resnick, MS, Physician Assistant. Advisor: Hooman Yaghoobzadeh. **Thesis:** *A Systematic Review and Proposed Research Study on the Use of Sacubitril/Valsartan in the Management of Familial Dilated Cardiomyopathy Caused by the Titin-Truncating Variant.*

Edwin Rinvil-Wailes, Executive MBA, MS, Healthcare Policy and Research. Advisor: Bruce Schackman.

Marisa Rodriguez, MS, Physician Assistant. Advisor: Stefan Worgall. **Thesis:** *Oral and Sublingual Immunotherapy for Peanut Desensitization in Children with Peanut Allergy.*

Margarita Rozenshteyn, Executive MBA, MS, Healthcare Policy and Research. Advisor: Bruce Schackman.

James C. Sang, Executive MBA, MS, Healthcare Policy and Research. Advisor: Bruce Schackman.

Alexandra Schroeder, MS, Physician Assistant. Advisor: Alexander Swistel. **Thesis:** *Breast Cancer and Exercise: An Option for Nonoperative Risk Reduction for Women with BRCA 1/2.*

Zachary Scott, MS, Physician Assistant. Advisor: Katherine Hajjar. **Thesis:** *Contrast-Enhanced Ultrasound and Liver Transaminases as a Screening Method for Hepatic Injury in Hemodynamically Stable Children with Minor Blunt Abdominal Trauma.*

Juan Carlos Serrano, Executive MBA, MS, Healthcare Policy and Research. Advisor: Bruce Schackman.

Jonathan Shoag, MS, Clinical and Translational Investigation. Advisor: Christopher Barbieri, Anthony Brown. **Thesis:** *Harnessing Clinical Data to Identify New Prostate Cancer Therapeutics.*

Kimberly Showalter, MS, Clinical and Translational Investigation. Advisors: Jessica Gordon and Yuan-Shan Zhu. **Thesis:** *Longitudinal Trends, Causes, and Predictors of Hospital Readmission Among Individuals with Systemic Sclerosis Associated Pulmonary Hypertension.*

Masters of Science

May 28, 2020 (continued)

Rache Simmons, Executive MBA, MS, Healthcare Policy and Research. Advisor: Bruce Schackman

Melissa Ashley Skolnik, Executive MBA, MS, Healthcare Policy and Research. Advisor: Bruce Schackman.

Melody Smith, MS, Clinical and Translational Investigation. Advisors: Marcel van den Brink and Marshall Glesby. **Thesis:** *Investigating the Immunophenotype and Metabolism of TCR KO Donor and Third-Party CD19-Targeted Chimeric Antigen Receptor T Cells.*

Jeffrey Sommer, Executive MBA, MS, Healthcare Policy and Research. Advisor: Bruce Schackman.

Julia Rousseau Spalding, MS, Physician Assistant. Advisor: Devorah Segal. **Thesis:** *MRI-Guided Laser Ablation in Pediatric Epilepsy: A Novel Treatment in Achieving Seizure Freedom.*

Jessica Chen Su, MS, Physician Assistant. Advisor: Janna Gordon-Elliott. **Thesis:** *Supplementation of Omega-3 Fatty Acid in Women During Pregnancy: An Approach That Can Potentially Reduce the Risk of Developing Postpartum Depression.*

Zaid Tafesh, MS, Healthcare Policy and Research. Advisor: Jing Li. **Thesis:** *Addressing Liver Transplant Waitlist Mortality Through Utilization of HCV-Infected Grafts.*

Nicholas Steven Tamaccio, Executive MBA, MS, Healthcare Policy and Research. Advisor: Bruce Schackman.

Melissa Tardiff, MS, Physician Assistant. Advisor: Janna Gordon-Elliott. **Thesis:** *Exercise During Pregnancy: A Strategy for the Prevention of Postpartum Depression.*

Emilee Ann Thomas, Executive MBA, MS, Healthcare Policy and Research. Advisor: Bruce Schackman.

Lauren Thomas, MS, Physician Assistant. Advisor: Devorah Segal. **Thesis:** *The Effect of the Ketogenic Diet as Adjunctive Therapy on Development in Infants with West Syndrome.*

Seanna Antonia Thompson, Executive MBA, MS, Healthcare Policy and Research. Advisor: Bruce Schackman.

Muhammad Rizwan Toor, Executive MBA, MS, Healthcare Policy and Research. Advisor: Bruce Schackman.

Michelle Mary Ulrich, Executive MBA, MS, Healthcare Policy and Research. Advisor: Bruce Schackman.

Liset Mireya Vargas, MS, Physician Assistant. Advisor: Gregory Dakin. **Thesis:** *Perioperative Optimization of the Gut Microbiome to Improve Postoperative Laparoscopic Sleeve Gastrectomy Sequelae.*

Charles Wallace, MS, Clinical Epidemiology and Health Service Research. Advisor: Maria Figueiredo Pereira. **Thesis:** *Expanding the Understanding of Inflammation Through Translational Research: An Evaluation of Psychosocial Variables Among Stroke Patients in the Jackson Heart Study and Alzheimer's Disease in a Transgenic Rat Model.*

Tina Z. Wang, MS, Clinical and Translational Investigation. Advisors: Marshall Glesby and David Calfee. **Thesis:** *Procalcitonin in the Management of Lower Respiratory Tract Infections.*

Zeyu Wang, MS, Computational Biology. Advisor: Andrea Sboner. **Thesis:** *Identifying Master Regulators and Dysregulated Proteins in Prostate Cancer Development and Progression.*

Kristen Marie Whitehead, MS, Physician Assistant. Advisor: Harsimran Singh. **Thesis:** *Optimal Post-Procedural Therapy for Patients Ineligible for Treatment with Oral Anticoagulation Who Undergo Left Atrial Appendage Occlusion with the Watchman Device for Non-Valvular Atrial Fibrillation.*

Emily Wiercinski, MS, Physician Assistant. Advisor: Harjot Singh. **Thesis:** *The Seroprevalence of West Nile Virus in Human and Mosquito Populations Across the United States of America.*

Jennifer Lin Wong, Executive MBA, MS, Healthcare Policy and Research. Advisor: Bruce Schackman.

Jared Yoder, Executive MBA, MS, Healthcare Policy and Research. Advisor: Bruce Schackman.

Masters of Science

May 28, 2020 (continued)

Anthony Yu, MS, Clinical and Translational Investigation. Advisors: Dean Bajorin and Jonathan Weinsaft. **Thesis:** *Enhancing Understanding of Risks and Benefits of Cardiac Monitoring During Targeted HER2 Therapy.*

Kevin Michael Zikaras, Executive MBA, MS, Healthcare Policy and Research. Advisor: Bruce Schackman.

August 17, 2020

Rimsha Azhar, MS, Healthcare Policy and Research. Advisor: Yiye Zhang. **Thesis:** *Studying the Effect of Environmental Exposure on Maternal and Infant Health.*

Techna Cadet, MS, Healthcare Policy and Research. Advisor: Sean M. Murphy. **Thesis:** *Cost of Implementation of E-Connect Tool in Probation Departments for Juvenile Probationers.*

Karina Camarena, MS, Healthcare Policy and Research. Advisor: Paul Christos. **Thesis:** *Machine Learning Method to Predict LCMM Classes in COPD Study.*

Danni Cao, MS, Healthcare Policy and Research. Advisor: Samprit Banerjee. **Thesis:** *Forecasting COVID-19 Cases by County.*

Xinrui Chen, MS, Healthcare Policy and Research. Advisor: Ivan Diaz. **Thesis:** *Risk Factors for Hypertension in a Low-Income Urban Population in Pune, India.*

Xu Chen, MS, Healthcare Policy and Research. Advisor: Samprit Banerjee. **Thesis:** *NLP & Image Processing for Outfit Recommendation.*

Yuxian Chen, MS, Healthcare Policy and Research. Advisor: Amelia Bond. **Thesis:** *Opioid Use Before and After Total Joint Arthroplasty.*

Shivani Daryani, MS, Physician Assistant. Advisor: Inna Landres. **Thesis:** *The Role of Fiber Supplementation in the Management and Treatment of PCOS.*

Deepak Dhankani, MS, Healthcare Policy and Research. Advisor: Samprit Banerjee. **Thesis:** *Risk Prediction for CHF Patients with NLP.*

Chiomah Ezeomah, MS, Healthcare Policy and Research. Advisor: Myung Hee Lee. **Thesis:** *Ambulatory Blood Pressure Monitoring in People with HIV in Tanzania with and without Hypertension.*

Yueqi Feng, MS, Healthcare Policy and Research. Advisor: Linda Gerber. **Thesis:** *Patient Selection for Treatment in Resource Constrained Settings.*

Aishwarya Gandhe, MS, Healthcare Policy and Research. Advisor: Bruce Schackman. **Thesis:** *Optimal Timing of Prostate MRI for Improved Quality of Life.*

Janvi Gandhi, MS, Healthcare Policy and Research. Advisor: Ruth Masterson Creber. **Thesis:** *mHealth for Population Surveillance in Myanmar.*

Merin Grace, MS, Healthcare Policy and Research. Advisor: Paul Christos. **Thesis:** *Machine Learning Method to Predict LCMM Classes in COPD Study.*

Tianyang Han, MS, Healthcare Policy and Research. Advisor: Amelia Bond. **Thesis:** *Opioid Use Before and After Total Joint Arthroplasty.*

Yonaka Harris, MS, Healthcare Policy and Research. Advisor: Yiye Zhang. **Thesis:** *Studying the Effect of Environmental Exposure on Maternal and Infant Health.*

Jiale He, MS, Healthcare Policy and Research. Advisor: Linda Gerber. **Thesis:** *Patient Selection for Treatment in Resource Constrained Settings.*

Yitian He, MS, Healthcare Policy and Research. Advisors: Paul Christos and Xiaoyue (Rebecca) Ma. **Thesis:** *Racial and Regional Differences in Active Surveillance for Low-Risk Prostate Cancer in the United States.*

Yanru Heng, MS, Healthcare Policy and Research. Advisor: Samprit Banerjee. **Thesis:** *Social Disparities and the Diagnosis of COVID-19.*

Roland Hentz, MS, Healthcare Policy and Research. Advisor: Elizabeth Sweeney. **Thesis:** *Multiple Sclerosis Lesion Segmentation on Structural MRI.*

Xiaofan Hu, MS, Healthcare Policy and Research. Advisor: Amelia Bond. **Thesis:** *Opioid Use Before and After Total Joint Arthroplasty.*

Masters of Science

August 17, 2020 (continued)

Sara Jumabhoy, MS, Healthcare Policy and Research. Advisor: Ruth Masterson Creber. **Thesis:** *mHealth for Population Surveillance in Myanmar.*

Joseph Kabariti, MS, Healthcare Policy and Research. Advisor: Thomas Campion. **Thesis:** *Identifying Relationships Between Mean Arterial Pressure and In-Hospital Mortality in the ICU.*

Maki Karakida, MS, Healthcare Policy and Research. Advisor: Nathaniel Hupert. **Thesis:** *Optimizing Resilience Care for Evacuating Older Adults.*

Farai Kuwonza, MS, Healthcare Policy and Research. Advisor: William Schpero. **Thesis:** *Impact of Social Determinants of Health on Cost and Utilization.*

Corinne Lamour-Romero, MS, Healthcare Policy and Research. Advisor: Ruth Masterson Creber. **Thesis:** *mHealth for Population Surveillance in Myanmar.*

Haojia Li, MS, Healthcare Policy and Research. Advisor: Jessica Ancker. **Thesis:** *Social Determinants of Health in Manhattan.*

Zhuoer Li, MS, Healthcare Policy and Research. Advisor: Samprit Banerjee. **Thesis:** *Forecasting COVID-19 Cases by County.*

Zixuan Li, MS, Healthcare Policy and Research. Advisor: Jing Li. **Thesis:** *Association of the Hospital Readmissions Reduction Program with Mortality for Patients with Heart Failure and Acute Myocardial Infarction.*

Jingyi Liang, MS, Healthcare Policy and Research. Advisor: Zhengming Chen. **Thesis:** *Expanding HIV Testing Among Adults Who Utilize Traditional Healers.*

Tianchen Liu, MS, Healthcare Policy and Research. Advisor: Xi Kathy Zhou. **Thesis:** *Longitudinal Clinical Data Analysis for Patients with Heart Failure with Preserved Ejection Fraction.*

Yinuo Liu, MS, Healthcare Policy and Research. Advisor: Yiye Zhang. **Thesis:** *Estimating Disease Trajectories from EHR Data.*

Yuqi Liu, MS, Healthcare Policy and Research. Advisor: Samprit Banerjee. **Thesis:** *Social Disparities and the Diagnosis of COVID-19.*

Matthew Mandeli, MS, Healthcare Policy and Research. Advisor: Arindam RoyChoudhury. **Thesis:** *Does Body Composition Mediate the Relationship Between Physical Performance and Strength as Older Adults Develop Frailty?*

John Meddar, MS, Healthcare Policy and Research. Advisor: Ruth Masterson Creber. **Thesis:** *mHealth for Population Surveillance in Myanmar.*

Brianna Nelson, MS, Healthcare Policy and Research. Advisor: Bruce Shackman. **Thesis:** *Optimal Timing of Prostate MRI for Improved Quality of Life.*

Sohum Pandey, MS, Healthcare Policy and Research. Advisor: Amelia Bond. **Thesis:** *Opioid Use Before and After Total Joint Arthroplasty.*

Aditya Ponnappalli, MS, Healthcare Policy and Research. Advisor: William Schpero. **Thesis:** *Impact of Social Determinants of Health on Cost and Utilization.*

Jingjing Qi, MS, Healthcare Policy and Research. Advisor: Ivan Diaz. **Thesis:** *Estimating the Causal Effect of Digoxin Using Marginal Structural Models on Adverse Events in Patients After Left Ventricular Assist Device Implantation.*

Aaphsaarah Rahman, MS, Healthcare Policy and Research. Advisor: Ivan Diaz. **Thesis:** *Risk Factors for Hypertension in a Low-Income Urban Population in Pune, India.*

Maleeha Saleem, MS, Healthcare Policy and Research. Advisor: Zachary Grinspan. **Thesis:** *Children with Epilepsy - Using Medicaid Data to Understand State-to-State Variations in Care.*

Soham Sinha, MS, Healthcare Policy and Research. Advisor: William Schpero. **Thesis:** *Impact of Social Determinants of Health on Cost and Utilization.*

Afroza Sultana, MS, Healthcare Policy and Research. Advisor: Yiye Zhang. **Thesis:** *Studying the Effect of Environmental Exposure on Maternal and Infant Health.*

Mallika Viswanath, MS, Healthcare Policy and Research. Advisor: Yiye Zhang. **Thesis:** *Studying the Effect of Environmental Exposure on Maternal and Infant Health.*

Masters of Science

August 17, 2020 (continued)

Shuqi Wang, MS, Healthcare Policy and Research. Advisor: Xi Kathy Zhou. **Thesis:** *Longitudinal Clinical Data Analysis for Patients with Heart Failure with Preserved Ejection Fraction.*

Yiwen Wang, MS, Healthcare Policy and Research. Advisor: Jihui Lee and Meghan Reading Turchioe. **Thesis:** *Characterizing Engagement Among AF Patients Self-Monitoring with Mobile Health.*

Yunhan Wang, MS, Healthcare Policy and Research. Advisor: Yi Wang. **Thesis:** *Child Psychiatry and Pediatrics Trainees' Attitudes Towards Individuals with Substance Use Disorders and Mental Illness.*

Kimberly Wong, MS, Healthcare Policy and Research. Advisor: William Schpero. **Thesis:** *Examining the Effect of Minimum Wage Laws on Alcohol-Related Deaths.*

Xiaoyue Xiao, MS, Healthcare Policy and Research. Advisor: Jyoti Pathak. **Thesis:** *Development of Shared Decision Making Tool for Postpartum Depression Prevention and Treatment.*

Yue Yang, MS, Healthcare Policy and Research. Advisor: Amelia Bond. **Thesis:** *Opioid Use Before and After Total Joint Arthroplasty.*

Zihan Yang, MS, Healthcare Policy and Research. Advisor: Jessica Ancker. **Thesis:** *Social Determinants of Health in Manhattan.*

Fei Zhang, MS, Healthcare Policy and Research. Advisor: Jessica Ancker. **Thesis:** *Social Determinants of Health in Manhattan.*

Kai Zhang, MS, Healthcare Policy and Research. Advisor: Xi Kathy Zhou. **Thesis:** *Breast Cancer Prediction Modelling.*

Liqian Zhang, MS, Healthcare Policy and Research. Advisors: Paul Christos and Xiaoyue (Rebecca) Ma. **Thesis:** *Racial and Regional Differences in Active Surveillance for Low-Risk Prostate Cancer in the United States.*

Tianran Zhang, MS, Healthcare Policy and Research. Advisor: Arindam RoyChoudhury. **Thesis:** *Does Body Composition Mediate the Relationship Between Physical Performance and Strength as Older Adults Develop Frailty?*

Xueting Zhang, MS, Healthcare Policy and Research. Advisor: Elizabeth Sweeney. **Thesis:** *Magnetic Resonance Image Intensity Normalization.*

Yunyue Zhang, MS, Healthcare Policy and Research. Advisor: Jyotishman Pathak. **Thesis:** *Development of Shared Decision Making Tool for Postpartum Depression Prevention and Treatment.*

Yan Zhao, MS, Healthcare Policy and Research. Advisor: Samprit Banerjee. **Thesis:** *Forecasting COVID-19 Cases by County.*

Hongyu Zhou, MS, Healthcare Policy and Research. Advisor: Arindam Roy Choudhury. **Thesis:** *Analyzing Relationship Between the Components of Frailty.*

Hongyao Zhu, MS, Healthcare Policy and Research. Advisor: Samprit Banerjee. **Thesis:** *Risk Prediction for CHF Patients with NLP.*

Wenyu Zhu, MS, Healthcare Policy and Research. Advisor: Arindam RoyChoudhury. **Thesis:** *Does Body Composition Mediate the Relationship Between Physical Performance and Strength as Older Adults Develop Frailty?*

Yi Zhu, MS, Healthcare Policy and Research. Advisor: Elizabeth Sweeney. **Thesis:** *Magnetic Resonance Image Intensity Normalization.*

Doctors of Philosophy

August 19, 2019

Marjan Bozinowski, PhD, Pharmacology. Advisor: Christopher E. Mason. **Thesis:** *Tissue Specific Gene Expression and Circadian Dynamics in Primate Brains.*

Caitlin Elizabeth Burgdorf, PhD, Neuroscience. Advisor: Anjali Rajadhyaksha. **Thesis:** *Genetic Vulnerabilities and Treatment Targets for Cannabis Dependence and Cocaine Addiction.*

Shi Chen, PhD, Tri-Institutional Chemical Biology Program. Advisor: Minkui Luo. **Thesis:** *Dynamic Conformational Landscapes and Transition States of Protein Methyltransferases.*

Mytrang Hoang Do, PhD, Immunology and Microbial Pathogenesis. Advisor: Ming Li. **Thesis:** *mTORC1 Control of Innate and Adaptive Immune Responses in Health and Cancer.*

Gregory Michael Farber, PhD, Physiology, Biophysics and Systems Biology. Advisor: Carl Blobel. **Thesis:** *ADAM10 Controls the Terminal Differentiation of the Coronary and Glomerular Endothelium.*

Zachary Sheane Hann, PhD, Tri-Institutional Chemical Biology Program. Advisor: Christopher Lima. **Thesis:** *Chemical Probes to Trap Ubiquitin Conjugation Cascade Intermediates.*

Christopher Peter Horoszko, PhD, Pharmacology. Advisor: Daniel Heller. **Thesis:** *Under Stress from Oncogenic Ras: Secretory Phospholipase A2 Activity and Lipid Dysregulation.*

Sohn G. Kim, PhD, Immunology and Microbial Pathogenesis. Advisor: Eric Pamer. **Thesis:** *Reestablishing Resistance to an Antibiotic-Resistant Intestinal Pathogen with a Lantibiotic-Producing, Colonresident Probiotic.*

Minwei Liu, PhD, Physiology, Biophysics and Systems Biology. Advisor: Ekta Khurana. **Thesis:** *Big Data Approaches to Decipher Non-Coding Cancer Driver Mutations.*

Michaelyn Claire Lux, PhD, Tri-Institutional Chemical Biology Program. Advisor: Derek Tan. **Thesis:** *Development of a Palladium-Catalyzed Bicyclization Reaction and Development of Bis-Electrophilic Probes for Ubiquitin Conjugation.*

Raul Julian Martinez-McFaline, PhD, Cell and Developmental Biology. Advisor: Yariv Houvras. **Thesis:** *Uncovering the Cellular and Molecular Consequences of Aberrant H3K9 Methyltransferase Activity in Melanoma.*

Nora Claire Pyenson, PhD, Immunology and Microbial Pathogenesis. Advisor: Luciano Marrifini. **Thesis:** *How CRISPR Immunity Shapes Co-Evolutionary Dynamics Between Bacteria and Phage.*

Emma Maria Schatoff, PhD, Cell and Developmental Biology. Advisor: Lukas Dow. **Thesis:** *Distinct Colorectal Cancer-Associated APC Mutations Dictate Response to Tankyrase Inhibition.*

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December 31, 2019

Mridula Balakrishnan, PhD, Cell and Developmental Biology. Advisor: Mary Baylies. **Thesis:** *Drosophila Cofilin: Its Roles in Sarcomerogenesis and Myopathy.*

Ryan Elizabeth Blawski, PhD, Pharmacology. Advisor: Minkui Luo. **Thesis:** *An Investigation of KMT2 Family Methyltransferases: Novel Roles for Protein Lysine Methylation in Cancer.*

Maria Elizabeth Bustillo, PhD, Cell and Developmental Biology. Advisor: Jennifer Zallen. **Thesis:** *Tension-Sensitive Regulation of Adhesion During Epithelial Remodeling.*

Andrew Cho, PhD, Biochemistry and Structural Biology. Advisors: Kayvan Keshari and Jason Lewis. **Thesis:** *Synthesis, Characterization, and Translation of [6-13C,15N3]-Arginine, a Hyperpolarized 13C Magnetic Resonance Spectroscopy Probe for In Vivo Arginase Activity.*

Hyunwoo Cho, PhD, Physiology, Biophysics and Systems Biology. Advisor: Christina Leslie. **Thesis:** *Integrative Computational Analysis of Epigenetic Changes in Cellular Differentiation.*

Angela Chui, PhD, Neuroscience. Advisor: Songhai Shi. **Thesis:** *Oxidative Stress Regulates Neocortical Progenitor Behavior and Neurogenesis Transition.*

Rebecca Cox, PhD, Neuroscience. Advisor: Gregory Petsko. **Thesis:** *Investigating the Retromer Complex as a Potential Therapeutic Target in Alzheimer's Disease.*

Doctors of Philosophy

December 31, 2019 (continued)

Sarah Eskreis-Winkler, PhD, Physiology, Biophysics and Systems Biology. Advisor: Yi Wang. **Thesis:** *Quantitative Susceptibility Mapping, Metal Detection, and Deep Learning in MRI.*

Maria Elizabeth Falzone, PhD, Biochemistry and Structural Biology. Advisor: Alessio Accardi. **Thesis:** *Structural Basis of Calcium-Dependent Lipid Scrambling and Ion Transport by TMEM16 Scramblases.*

Gabriel A. Fitzgerald, PhD, Physiology, Biophysics and Systems Biology. Advisor: Scott Blanchard. **Thesis:** *Single Molecule Recordings of Secondary Transport with Single Turnover Resolution.*

Mayur Mahavir Gadiya, PhD, Cell and Developmental Biology. Advisor: Sarat Chandralapaty. **Thesis:** *Mechanisms of Action of Non-Canonical ESR1 Ligand Domain Mutations Identified in Breast Cancer.*

Theodoros Giavridis, PhD, Cell and Developmental Biology. Advisor: Michel Sadelain. **Thesis:** *In Vivo Modeling of Car T Cell-Institutional Induced Cytokine Release Syndrome and Discovery of Novel Therapeutic Interventions.*

Coryandar Marie Gilvary, PhD, Tri-Institutional Computational Biology and Medicine Program. Advisor: Olivier Elemento. **Thesis:** *A Machine Learning Approach to Identifying Novel Therapeutics and Their Underlying Mechanisms.*

Ming Jiang, PhD, Pharmacology. Advisor: Minkui Luo. **Thesis:** *Profiling Protein Methylation Events and Characterizing Their Roles in Hematopoiesis and Cancer.*

Heejin Lee, PhD, Cell and Developmental Biology. Advisor: Todd Evans. **Thesis:** *The Mechanism and Functional Study of a Novel Wnt Signaling Inhibitor TMEM88.*

Jacob Lloyd Litke, PhD, Tri-Institutional Chemical Biology Program. Advisor: Samie Jaffrey. **Thesis:** *A Ribozyme-Mediated Mammalian Expression System and Its Utility for RNA-Based Devices and Aptamers in Live Cells.*

Lauren Tate Marek, PhD, Pharmacology. Advisor: Alex Kentsis. **Thesis:** *Functional Proteomics and Pharmacologic Disassembly of Oncogenic Enhanceosomes in Acute Myeloid Leukemia.*

Alexa McIntyre, PhD, Tri-Institutional Computational Biology and Medicine Program. Advisor: Christopher Mason. **Thesis:** *N6-Methyladenine in Microbes and Host Immune Response.*

André Pineda, PhD, Neuroscience. Advisor: Jacqueline Burré. **Thesis:** *Synaptic Snare Chaperones in Neuronal Function and Disease.*

Ariën Sebastiaan Rustenburg, PhD, Physiology, Biophysics and Systems Biology. Advisor: John Chodera. **Thesis:** *Quantifying Protonation State Effects in Protein-Ligand Interaction.*

Preethi Srinivasan, PhD, Tri-Institutional Computational Biology and Medicine Program. Advisor: Michael Berger. **Thesis:** *The Role of Germline Pathogenicity and Its Clinical Implications for Human Cancer.*

Lexi Sun, PhD, Physiology, Biophysics and Systems Biology. Advisor: Xiaohui Qu. **Thesis:** *An In Vitro Single-Molecule Study of Polysome Formation Kinetics.*

Jonathan Witztum, PhD, Physiology, Biophysics and Systems Biology. Advisor: Conor Liston. **Thesis:** *Prefrontal Cortical Microcircuit Dynamics Supporting Working Memory Maintenance.*

Zoe Zijun Zhao, PhD, Physiology, Biophysics and Systems Biology. Advisor: Jason Mezey. **Thesis:** *Predictive Modeling of Human Disease: Comparison of Genome-Wide Phenotype Prediction Methods, a Method for Novel Genetic Feature Coding, and Development of Biomarkers for Friedreich Ataxia.*

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May 28, 2020

Pradeep Ambrose, PhD, Physiology, Biophysics and Systems Biology. Advisors: Charles Rice and Christopher Mason. **Thesis:** *High Throughput Genetics and Characterization of RNA Virus Infection Using Accurate Next-Generation Sequencing.*

Noelle Victoria Antao, PhD, Cell and Developmental Biology. Advisor: Prasad Jallepalli. **Thesis:** *Understanding the Impact of PP2A Misregulation on Mitosis After Whole-Genome Doubling.*

Doctors of Philosophy

May 28, 2020 (continued)

Alyssa Melanie Bagadion, PhD, Cell and Developmental Biology. Advisor: David Rickman. **Thesis:** *Synergistic Role of N-MYC Overexpression and RB Loss-of-Function in Driving Neuroendocrine Prostate Cancer.*

Hanan Baker, PhD, Physiology, Biophysics and Systems Biology. Advisor: Olaf S. Andersen. **Thesis:** *Elucidating the Physical Principles Underlying Lipid Bilayer Perturbation by Hydrophobic and Amphipathic Peptides.*

Ashley Chui, PhD, Tri-Institutional Chemical Biology Program. Advisor: Daniel Bachovchin. **Thesis:** *N-Terminal Degradation is the Activation Mechanism of the NLRP1B and CARD8 Inflammasomes.*

Melissa Deborah Docampo, PhD, Immunology and Microbial Pathogenesis. Advisor: Marcel van den Brink. **Thesis:** *The Role of Short Chain Fatty Acid Signaling in Graft Versus Host Disease.*

Dylan Joseph Drakes, PhD, Pharmacology. Advisor: Renier Brentjens. **Thesis:** *Optimization of T Cell Receptor Modified T Cells for Cancer Therapy.*

Sunyana Gadai, PhD, Cell and Developmental Biology. Advisor: Neal Rosen. **Thesis:** *Studies of the Functional Consequences of PTEN Loss on Mutant BRAF Driven Melanoma.*

Sudha Ragavalli Guttikonda, PhD, Neuroscience. Advisor: Lorenz Studer. **Thesis:** *Modeling Neuroinflammation Using hPSC-Derived Microglia in an In Vitro Tri-Culture System.*

Darren Johnson, PhD, Tri-Institutional Chemical Biology Program. Advisor: Daniel Bachovchin. **Thesis:** *Discovery and Characterization of CARD8-Mediated Pyroptosis in Human Blood Cells.*

Hyaeyeong Kim, PhD, Cell and Developmental Biology. Advisor: Samie Jaffrey. **Thesis:** *Using Fluogenic RNAs: From Live-Cell Imaging Tools to Controlling Intracellular Phase Separation.*

Evangelia Loizou, PhD, Cell and Developmental Biology. Advisor: Scott Lowe. **Thesis:** *In Vivo Modelling of Myeloid Hematological Malignancies with Complex Karyotypes.*

Nicole Lustgarten Guahmich, PhD, Physiology, Biophysics and Systems Biology. Advisor: Carl Blobel. **Thesis:** *Endothelial Deletion of ADAM10, a Key Regulator of Notch Signaling, Leads to Reduced Fertility in Female Mice.*

Hilary T. Monaco, PhD, Tri-Institutional Computational Biology and Medicine Program. Advisor: Joao Xavier. **Thesis:** *Spatio-Temporal Understanding of Cooperation in Microbial Communities.*

Jared Daedalus Moon, PhD, Pharmacology. Advisor: Samie Jaffrey. **Thesis:** *Design of Genetically Encodable Nucleic Acid Devices Using Naturally Occurring RNA Motifs.*

Xiaojing Mu, PhD, Molecular Biology. Advisor: Scott Keeney. **Thesis:** *Chromosome-Autonomous Feedback Eliminates Meiotic DSB Competence Upon Synaptonemal Complex Formation.*

Pooja Naik, PhD, Cell and Developmental Biology. Advisor: Jennifer Zallen. **Thesis:** *Patterned Cell-Surface Receptors in Planar Polarity and Boundary Formation.*

Nima Nick Naseri, PhD, Neuroscience. Advisor: Manu Sharma. **Thesis:** *Neuronal Chaperones and the Misfolding of Intrinsically Disordered Proteins in Neurodegeneration.*

Bryan Duy-Anh Ngo, PhD, Cell and Developmental Biology. Advisor: Lewis Cantley. **Thesis:** *Genetic and Metabolic Determinants of Tumor Evolution and Cancer Metastasis.*

Shannon Christine Odell, PhD, Neuroscience. Advisor: Miklos Toth. **Thesis:** *Epigenetically Bistable Regions Govern Neuron Recruitment in the Dentate Gyrus of the Hippocampus.*

Edwin Charles Pratt, PhD, Pharmacology. Advisor: Jan Grimm and David Scheinberg. **Thesis:** *Multiplexed Imaging Using Nanoparticles and Rational Isotope Pairs.*

Andrea Rizzi, PhD, Tri-Institutional Computational Biology and Medicine Program. Advisor: John Chodera. **Thesis:** *Improving Efficiency and Scalability of Free Energy Calculations Through Automatic Protocol Optimization.*

Doctors of Philosophy

May 28, 2020 (continued)

Germán Alberto Sabio, PhD, Physiology, Biophysics and Systems Biology. Advisor: Jennifer Zallen. **Thesis:** *Regulation of Epithelial Polarity in the Drosophila Embryo.*

Andrew Schaumberg, PhD, Tri-Institutional Computational Biology and Medicine Program. Advisor: Thomas Fuchs. **Thesis:** *Computational Pathology from Microscope to Social Media.*

Michelle Chua Siao, PhD, Molecular Biology. Advisor: Kirk Deitsch. **Thesis:** *Evolution of Multigene Families and the Regulatory Carboxy-Terminal Domain of RNA.*

Beiyu Tang, PhD, Pharmacology. Advisor: Carl Blobel. **Thesis:** *Structure-Functional Analysis and Identification of Inhibitors of ADAM17/iRhom2-Dependent Proteolysis.*

Akanksha Verma, PhD, Tri-Institutional Chemical Biology Program. Advisor: Olivier Elemento. **Thesis:** *Transcriptomics Based Discovery of Disease Pathogenesis and Biomarkers.*

Meredith Wright Whitaker, PhD, Immunology and Microbial Pathogenesis. Advisor: Sabine Ehrt. **Thesis:** *Characterizing Proteins of Unknown Function in Mycobacterium Tuberculosis.*

Dinali Wijewarnasuriya, PhD, Cell and Developmental Biology. Advisor: Renier Brentjens. **Thesis:** *Excessive Co-Stimulation Leads to Dysfunction of Adoptively Transferred T Cells.*

Angela Yu, PhD, Tri-Institutional Computational Biology and Medicine Program. Advisor: Julius Lucks. **Thesis:** *Computationally Reconstructing RNA Folding Pathways from Experimental Data.*

Dalee Margaret Zhou, PhD, Pharmacology. Advisor: Jonathan Zippin. **Thesis:** *Soluble Adenylyl Cyclase as a Missing Regulatory Link Between Pigmentation and the Microenvironment and Metabolism.*

Weill Cornell Graduate School of Medical Sciences Alumni Award of Distinction

Kornelia Polyak, MD, PhD '95

Dr. Kornelia Polyak (PhD '95) is a professor of medicine at the Dana-Farber Cancer Institute and Harvard Medical School. She received her medical degree summa cum laude from the Albert Szent-Györgyi Medical University in Szeged, Hungary and a doctorate from Weill Cornell Graduate School of Medical Sciences.

Dr. Polyak is an internationally recognized leader in the field of breast cancer research. She performed her thesis work under the guidance of Dr. Joan Massagué at Memorial Sloan Kettering Cancer Center. For her thesis work, she was selected as the North American finalist of the Pharmacia Biotech & Science Prize for Young Scientists. Dr. Polyak completed her postdoctoral training with Drs. Bert Vogelstein and Kenneth W. Kinzler at The Johns Hopkins Sidney Kimmel Comprehensive Cancer Center in Baltimore, and then joined the Dana-Farber Cancer Institute.

Dr. Polyak's laboratory is dedicated to the molecular analysis of breast cancer with the goal of improving the clinical management of breast cancer patients. Her lab has devoted much effort to developing new ways to study tumors and to apply interdisciplinary approaches. They have applied mathematical and ecological models for a better understanding of breast tumor evolution.

Dr. Polyak has also achieved success with the clinical translation of her findings including the testing of efficacy of JAK2 and BET bromodomain inhibitors for the treatment of triple-negative breast cancer in clinical trials. She has received numerous awards including the Paul Marks Prize for Cancer Research, the AACR Outstanding Investigator Award for Breast Cancer Research, and the Rosalind Franklin Award. She is also a recipient of the National Cancer Institute Outstanding Investigator Award.

Doctors of Medicine

Weill Cornell Medical College

Class of 2020

Brittany Tamar Abel *§
Kevin Saile Ackerman *§
Julio Andres Alvarez
Lillye Patti Anderson
Lorenzo David Bean
Orrin Shea Belden
Aaron Michael Bloch †
Patrick O'Connor Bolan †
John Butterworth III
Anna Chaojun Cai §
Jim Gonzalez Castellanos †
Gustav Young-Min Cederquist *†
Amanda Hayley Ceravolo §
Kevin Chan
Angel Marie Charles †
Rebecca Mengxin Chen
Michael Zhao Cheng
Michael Anthony Chiok
Molly Irene Chodakewitz *§
Caroline Debra Chung
Mary Kathryn Bingham Cox
Francesca Rose Coxe *
Eliza Cricco-Lizza *
Isabel Arellano Cuervo
Alexa Gildea David
Andzelika Dechnik *§
Laura Jeanne Deering
Patrick DeGregorio
Timothy Ryan Donahoe
Krista Alexandra Dubin †
Xiying Fan †
Jonathan Stephen Galati
Christopher Michael Gamboa
Joanna Gao
Alejandro Garcia
Ron Shlomo Gejman †
Shokhi Goel
Catherine Gong
Rahul Grover †
Arpit Gupta
Iliana Gutierrez
Matthew Bruce Harrell
Diana He
Jeremy S. Ho
Tiffany Sing Huang
Yun-Han Huang †§
Ruben Jauregui †
Lu Jin
Yujin Joo
Mitali Kini †
Lisa Ruth Koenig
Daniel Oswaldo Lara
Dennis D. Lee
Anfei Li †
Andrea Yu-Ling Liu *
Nathan Jon Liu
Cristina Londono §
Alejandro Ivan Lopez *†
Tasher Losenegger
Nicole Marie Luche
Evguenia Makovkina
Teagan Elizabeth Marshall *
Isaac Mayefsky
Andrew Robert Milewski *†§
Andrew Jacob Miller
Kevin Byunghoon Oh
Hanley Ong
Paul Hyunsuk Paik
Srikanth Palanisamy †
Latha Revathi Panchap *
Hyun Sung Park
Hudson Macon Pierce
Ryan Eugene Radwanski §
Kimberly Anne Rickman †
Christopher Louis Robinson †
Daniel Benjamin Rosen †
Edwin Rosendo
Karina Nicole Ruiz-Esteves §
Barbara Elena Sahagún
Arash Samadi †
Elizabeth Selvaggio
William Dewey Shipman III †
Michael Philip Sideris
Jason Silberman *
Mohamed Ahmed Soliman †
Laura Perez Soriano
Amy Yuan Sun
Herie Sun * †
Umberto Tosi †
Stephanie Y. Tsai *
Manik Dutt Uppal †
Francesca Alexandra Voza
Sven Joshua Walderich * †
Daniel R. Wang *
Diana Grace Wang †
Wendy Meidan Wang †
Donovan Reese White
Sophia White *
Katharine Hermansen Wilcox
James Patrick Winebrake
Graham Miller Winston *
Richmond Lee Manning Woodward
Qianjing Xia †
Iyan Younus †
Michelle Youngju Yun †
Christina Marie Zecca
David Tianbai Zhang
Eric Yee-se Zhang
Lisa Tian-Tian Zhang

Approval contingent on their successful completion of the academic program

* Alpha Omega Alpha Honor Medical Society/with Academic Distinction

† with Honors in Research

§ with Honors in Service

† Weill Cornell/Rockefeller/Sloan Kettering Tri-Institutional MD-PhD Program Graduate

Weill Cornell Medical College Alumni Association Award of Distinction

Henry Masur, MD '72

Dr. Henry Masur (MD '72) is chief of critical care medicine at the National Institutes of Health (NIH) with a focus on human immunodeficiency virus (HIV) and the infectious complications of critical illness. He is a graduate of Dartmouth College and received a medical degree from Weill Cornell Medical College in 1972. Dr. Masur completed his residency in internal medicine at The New York Hospital and The Johns Hopkins Hospital, followed by a fellowship in infectious diseases at Weill Cornell Medical College. He launched his research career at Weill Cornell Medical College in the laboratory of Dr. Thomas Jones, professor emeritus of medicine.

While in his first year as an assistant professor at Weill Cornell Medical College, Dr. Masur treated a patient with a unique presentation of pneumocystis pneumonia. The experience led him to author one of three peer-reviewed articles in the New England Journal of Medicine that first described the syndrome now known as AIDS. In 1981, he was recruited by Dr. Anthony Fauci (MD '66) to join the NIH to launch a research program investigating this new syndrome. He joined as the assistant chief of a new department of critical care medicine that Dr. Fauci had created, led by Dr. Joseph Parrillo (MD '72).

Dr. Masur did much of the early work defining the management of AIDS-related opportunistic infections, with a particular focus on pneumocystis pneumonia. He has been the chief of critical care medicine at the NIH Clinical Center since 1989. He is the founder and current co-editor of the NIH-CDC-Infectious Disease Society of America Guidelines on Management of HIV-Related Opportunistic Infections. His NIH group spearheaded the initial U.S. trials of direct-acting antiviral treatment for hepatitis C virus (HCV), which have dramatically improved the success of HCV management. Dr. Masur is a past president of the Infectious Diseases Society of America. He is the co-chair of the NIH COVID-19 Treatment Guidelines Panel with Dr. Roy Gulick, chief of the Division of Infectious Diseases at Weill Cornell Medicine. In 2020, the Department of Health and Human Services awarded him the Hubert H. Humphrey Award for Service to America.



Hippocratic Oath

I do solemnly vow, to that which I value and hold most dear:

That I will honor the Profession of Medicine, be just and generous to its members, and help sustain them in their service to humanity;

That just as I have learned from those who preceded me, so will I instruct those who follow me in the science and the art of medicine;

That I will recognize the limits of my knowledge and pursue lifelong learning to better care for the sick and to prevent illness;

That I will seek the counsel of others when they are more expert so as to fulfill my obligation to those who are entrusted to my care;

That I will not withdraw from my patients in their time of need;

That I will lead my life and practice my art with integrity and honor, using my power wisely;

That whatsoever I shall see or hear of the lives of my patients that is not fitting to be spoken, I will keep in confidence;

That into whatever house I shall enter, it shall be for the good of the sick;

That I will maintain this sacred trust, holding myself far aloof from wrong, from corrupting, from the tempting of others to vice;

That above all else I will serve the highest interests of my patients through the practice of my science and my art;

That I will be an advocate for patients in need and strive for justice in the care of the sick.

I now turn to my calling, promising to preserve its finest traditions, with the reward of a long experience in the joy of healing.

I make this vow freely and upon my honor.

Augustine M.K. Choi, MD
Stephen and Suzanne Weiss Dean,
Weill Cornell Medical College
Provost for Medical Affairs, Cornell University

Class of 2020

Cornell University Alma Mater

Far above Cayuga's waters,
With its waves of blue,
Stands our noble Alma Mater,
Glorious to view.

Far above the busy humming
of the bustling town,
Reared against the arch of heaven,
Looks she proudly down.

Chorus

Lift the chorus, speed it onward,
Loud her praises tell;
Hail to thee, our Alma Mater,
Hail, all hail, Cornell.



Weill Cornell Medicine