

CLINICAL PSYCHIATRY TRACK



Rose Leipualani Carlson, MD, PhD

MED SCHOOL: Columbia University College of Physicians and Surgeons

GRAD SCHOOL: UC Davis, Department of Evolution and Ecology

UNDERGRAD: Cornell (Biology)

Born in Hawaii in circumstances improbable to academic success, Rose put herself through college at Cornell via a near-full-time position maintaining and performing research in a zebrafish facility. She graduated in the top 1% of her class. In graduate school she identified the ecological factors that affect the rate of morphological diversification of the species rich radiation of small North American stream fishes. As a postdoctoral fellow at Harvard's Department of Organismic and Evolutionary Biology, she used Particle Image Velocimetry to study how darter fishes hold station, and at UT Austin's Section of Integrative Biology, she examined the effects of community diversity on diet breadth. As an Assistant Professor at Fordham University, she started her own darter fish lab while teaching numerous courses and mentoring trainees at undergraduate and graduate levels. She has at least 7 first-author papers in high-impact evolutionary ecology journals and has received multiple awards, grants, and scholarships. She is also a talented artist, illustrating her own papers as well as illustrating for others in *Functional Ecology*, *American Naturalist*, and *Ecology*. In medical school, she began studying the role of *Prevotella melaninogenica* in the cystic fibrosis pulmonary biome, and an additional research year at the Children's Hospital of Philadelphia, she created a body of work that formed the basis of an R01 her PI recently submitted. She has researched the medical and psychiatric correlates of care disengagement in HIV-positive patients. Last year she completed the Montauk Lighthouse Triathlon.



Peter Chamberlin, MD

MED SCHOOL: Weill Cornell Medical College

UNDERGRAD: SUNY Purchase (Dance Performance)

Raised in rural Maine, Peter took to ballet at a young age. As a junior in high school, he was offered a scholarship to study ballet at North Carolina School of the Arts, after which he was an apprentice with BalletMet in Columbus, OH. Earning his Bachelor of Fine Arts in Dance Performance at Purchase College, he received the President's Award for Academic and Artistic Achievement. Following graduation, he worked for a number of years professionally in both commercial and concert dance. He has worked with choreographers and companies that include Kyle Abraham, Douglass Dunn, Luke Murphy and the Bill T. Jones/Arnie Zane Dance Company. He has toured and performed domestically and internationally, including for the Queen of Denmark in the Royal Danish Theater and President Obama at the Kennedy Center Honors Award Ceremony. He has also taught master classes at Bard College, Barnard College, Movement Research, and other institutions. Confronted with a serious spinal condition, Peter entered medical school in a new career trajectory. He did research at the Hospital for Special Surgery, Columbia University Mailman School of Public Health, and Weill Cornell. His developing interests took him to study large-scale community health issues, including working to develop preventive interventions against interpersonal youth violence, coordinating with community members in Brooklyn to organize cardiovascular screening, and researching consumer purchase data and nutritional information to analyze the impact of the Healthy, Hunger-Free Kids Act in school districts across the US. He has published a first-author manuscript in the *Journal of ECT*, and he has studied provider-centric experiences of feeling guilt in provision of futile care to dying inpatients.



Jessica De Sabato, MD

MED SCHOOL: Sidney Kimmel Medical College at Thomas Jefferson University
UNDERGRAD: University of Pennsylvania (Biology)

From South Philadelphia and among the first in her family to attend college, Jessi received a full ride to Penn and will graduate medical school in the top of her class. Open to the wide-ranging possibilities within medicine, she entertained numerous options for employment prior to matriculation at medical school. She performed research as part of the Complex Genetics Initiative at the Penn Cardiovascular Institute. For 2 years she worked full-time at The Children's Hospital of Philadelphia, as a Clinical Research Coordinator in the Division of Orthopaedic Surgery, where she managed over 20 research projects, including seven prospective studies. Since the beginning of medical school, Jessi has demonstrated a pronounced and genuine focus on service to the community, and she has held numerous positions of leadership in this area. On the leadership board of The Story Initiative, she edited books written and illustrated by first and second year medical students, to be donated to orphanages all over the world. As part of the governance of her medical school's mentorship program for local elementary and high school students, and as the triage director of a weekly student-run free clinic operated at a men's homeless shelter, she has brought academic enhancement and mental and physical well-being to community members of all ages. As a first year medical student, she was nominated by faculty to sit on the associate provost's Committee of Student Advisors, where she provided a student's perspective on university-wide initiatives and issues.



Jamie Haas, MD

MED SCHOOL: Rush Medical College
UNDERGRAD: Carleton College (Psychology; Neuroscience)

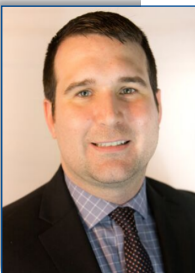
Jamie began college with the goal of becoming a photojournalist, seeking a means to capture nuances of human interactions. With her first neuroscience class, however, she became fascinated with the intricacies of the brain as manifest in emotion, cognition, and behavior. Her focus shifted: she matriculated at medical school to pursue psychiatry, a clear amalgam of her background in socially-perceptive art, neuroscience, psychology, advocacy, service, teaching, and mentorship. She worked at Minneapolis' Washburn Center to provide comprehensive support for children struggling with mental illness. She also served as a curriculum designer, lead teacher, and Chicago Public School liaison for a science enrichment program benefitting underserved students on Chicago's West Side. A committed proponent of women's reproductive rights, Jamie was a Clinic Coordinator for Planned Parenthood. She later led her medical school's chapter of Medical Students for Choice, challenging colleagues to discuss difficult topics. She has held research coordinator positions at both the University of Chicago's Monogenic Diabetes Registry and the Human Imaging Research Office, as well as at the University of Minnesota's Laboratory for Low Vision Research. She has investigated the effect of endocrine-disrupting chemicals on glucocorticoid receptor signaling as a contributor to metabolic disease pathogenesis. Jamie will graduate medical school AOA.



Peter Joe, MD

MED SCHOOL: New York University School of Medicine
UNDERGRAD: Cornell University (Biology; Chemistry)

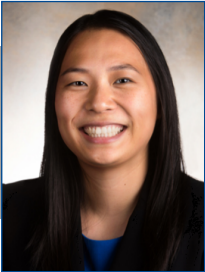
Peter was born in Korea and moved to the US at age 6. Having no physicians, scientists, or engineers in his family, he nonetheless received a four-year scholarship for high-performing international students pursuing health-related fields at Cornell, graduating Phi Beta Kappa. In college he used microfabricated substrates to study the effect of spatial heterogeneity of age-related vessel wall stiffening on endothelial permeability, and he worked with the Cornell Elderly Partnership. He was also employed as a consultant at Cornell's IT Service Desk. He has interned in the Division of Breast Surgery at Seoul National University Cancer Center, where he also worked to translate patient education materials from Korean into English. Upon matriculation at NYU School of Medicine, he initially performed research in cardiology before coming to experience psychiatry as his chosen field. Since beginning research in psychiatry, he has been extremely productive, creating a body of work investigating the role of zinc in depression, psychosis, and aggression; the role of transglutaminase-5 in schizophrenia; the connection between schizophrenia, inflammation, and the microbiome; and the potential for ophthalmological imaging techniques to identify a novel vascular biomarker for schizophrenia and bipolar disorder. He has 3 first-author publications (*Schizophrenia Research, Psychiatry Research*) and one in progress as well as additional publications in which he is co-author. He recently spent time at Seoul National University working in a neuroimaging lab.



Jonathan Lester, MD

MED SCHOOL: Johns Hopkins University School of Medicine
UNDERGRAD: Stony Brook University (Biology)

From the very eastern tip of Long Island and beset with financial pressures limiting his educational pursuits, Jon felt a strong desire to do more with his life, so he enlisted in the US Army. He served as an active duty paratrooper with the 82nd Airborne Division, where he was initially deployed in support of Operation Iraqi Freedom to provide humanitarian aid and security for Iraq's first democratic elections. Later, he was re-deployed—as part of the first brigade to arrive in the troop surge—to Baghdad, where he would complete one of the Army's longest combat deployments since World War II. During this deployment he served on a personal security detachment for Army commanders and State Department officials involved in provincial reconstruction. One of the prime motivating factors in Jon's life is service. To wit, he injured his back as a paratrooper and rather than seeking a medical discharge, he returned to the states to undergo surgical intervention that allowed him to return to service in Iraq. He has been awarded multiple Army Commendation Medals (Fort Bragg, NC; Camp Buehring, Kuwait; Camp Taji, Iraq), The Army Good Conduct Medal (Fort Bragg, NC), and The Army Achievement Medal (Tal Afar, Iraq). Following his military service, he matriculated at Stony Brook University, was on the Dean's List all 4 years, and graduated Magna Cum Laude. While in college, he worked as an EMT on Long Island for the Setauket Fire Department, providing 24/7 in-house emergency response during both Hurricanes Sandy and Irene. After college, he spent a year working as a full-time tutor, where he implemented an online tutoring platform and was rated as among the top service providers. During all 4 years of medical school, he performed translational research at the Wilmer Eye Institute, analyzing the inflammatory cytokine profile of ocular anterior chamber fluid from patients with inflammatory eye diseases such as uveitis and macular edema.



Yuan Liu, MD

MED SCHOOL: University of Chicago, Pritzker School of Medicine
UNDERGRAD: Swarthmore College (Studio Art; English Literature)

Born in China and raised in Arkansas and Kansas, Yuan attended Swarthmore and graduated with the Dean's Award, after which she undertook an Americorps VISTA fellowship in youth playwriting. For the several years before medical school, she continued to work half-time as the marketing and communications consultant for Philadelphia Young Playwrights while also working full-time as the Admissions Coordinator for PennDesign at the University of Pennsylvania and pursuing a professional ceramics career. Her transition into medicine was inspired by a desire to combat the barriers to care that she witnessed as a volunteer interpreter in a Chinatown free clinic. At Pritzker, she continued to serve in numerous student-run clinics and held leadership positions at the Community Health Clinic. She undertook original healthcare disparities research in lung transplants (resulting in a first-author publication in the *Journal of Heart and Lung Transplantation*). During a research year, she worked on a project involving reproductive health policy, namely investigating the impact of religious hospitals and healthcare systems on reproductive health services access, delivery, and transparency. A second project sought to identify religious insurance plans' restrictions on reproductive health services and determine patient knowledge of such restrictions. Yuan has been involved in and spearheaded numerous successful initiatives promoting women's professional development, and networking, mentorship, and wellness activities for medical students. Highly focused on teaching and mentorship, she worked as a TA many times over and was selected to be one of two student representatives for the Clinical Curriculum Review Committee for three years.



Thomas Maples, MD

MED SCHOOL: University of Texas Southwestern Medical School
UNDERGRAD: University of Texas at Austin (Computer Science; Biology)

Long interested in how the science of medicine meets the promise of computational networks, Thomas immersed himself in bioinformatics in college. He developed a model for the spatial spread of influenza within North America that accounts for the presence of international borders. He validated this model with US Census data and created an online interactive map for visualization purposes. In medical school he served as president of the Immunization Initiative for children, presided over the Innovating Healthcare Solutions Elective, and developed a prototype for a medical device to reduce muscular trauma during hip replacement surgery. He has investigated the impact of dopamine and serotonin on motor function by exposing nematodes to exogenous neurotransmitters (published in the *Proceedings of the National Academy of Sciences*) and developed a simple assay for determining the level of ethanol sensitivity in various strains of fruit flies (published in the *Journal of Visualized Experiments*). Thomas also conducted additional bioinformatics research, developing tools to analyze the gene expression profile of regenerating hepatocytes and pancreatic beta cells following chemical insults and surgical resection (published in *Cell Stem Cell*). He tutored 6 preclinical courses and developed tutoring materials for UT Southwestern's the new preclinical curriculum. He was the recipient of the Southwestern Medical Foundation Scholarship, and he has been inducted into AOA. He sings *a cappella*.



Jeannine Rider, MD

MED SCHOOL: The Warren Alpert Medical School of Brown University

UNDERGRAD: University of Rochester (Biology; Psychology)

Throughout her career Jeannine has been deeply committed to advocacy, mentorship, teaching, and youth empowerment. Strongly identifying with the self-determination theory of motivation, she did collegiate research and taught in the field of motivational psychology. At the same time, she founded and served on the executive board of the Rochester chapter of Active Minds, a national organization that empowers college students to speak openly about mental illness in order to promote awareness and encourage help-seeking. Following graduation, she entered the Peace Corps in Namibia, where she lived for 2½ years with a host family in a rural village without electricity or running water. She was responsible for teaching in numerous areas at the local school, and she was later elected chair of the Math and Science Department. She also established a school store to generate income and taught bookkeeping skills to the Entrepreneurship club to empower students to run the store. Upon returning to the US, she was employed full-time as a patient care technician in the emergency department while she applied to medical school, ultimately matriculating at Brown, where she received both the Alpert Medical School Dean's Scholarship as well as the Brown University Scholarship. Receiving a grant to create and formalize a curriculum that would sustainably meet the needs of adjudicated youth in Rhode Island, she founded BE REAL about Health, in which medical students create longitudinal relationships with groups of incarcerated youth through tailored, discussion-based lesson plans. Her program has persisted and continued to expand into other facilities helping at-risk youth. She has also represented medical students as an officer on the statewide RI Council of Child & Adolescent Psychiatry. She has been inducted into the Gold Humanism Honor Society and is a recipient of the Christopher Benedick Child Psychiatry Award for her dedication to the field throughout medical school.



Marissa Sampias, MD, MS

MED/GRAD SCHOOL: Georgetown University School of Medicine

UNDERGRAD: Princeton University (Chemistry)

Raised in Colorado, Marissa matriculated at Princeton University for college, where she played Division I varsity soccer and was a starter in the defensive line on the 2008 team that won the Ivy League Championship. She has served as a mentor to multiple younger female athletes in the community. In college she worked for 2 years in a biophysical chemistry group using nanoscience to better study complex systems from the single-molecule level. Her independent project focused on creating a fluorescent nanoscale probe to better detect and study the activity of a single enzyme in vitro and in vivo. She also helped to develop a reproducible protocol for synthesizing silver nanoparticles and quantum dots, as well as a surface passivation protocol to make these inorganic materials water-soluble. Awarded a Princeton Project 55 Fellowship, she performed full-time research between college and medical school, focused on identifying the biochemical factors underlying species-specific tropism of HIV and related viruses, with an end goal of creating an animal model in which novel antiretroviral therapies and vaccines could be better tested. She helped to generate a library of chimeric viruses expressing CCR5-tropic, HIV-1 derived envelopes to test for replication in vitro & in vivo. Her work has been published in *Journal of Virology* and *Cell Host & Microbe*. In medical school Marissa presided over a comprehensive sex education program for high-risk teenage girls, received funding to study the utility of telemedicine to deliver remote therapy to survivors of domestic violence with PTSD, and presented on her work characterizing a relationship between mindfulness practice and PTSD-related symptom severity.



Anita Verma, MD (PGY-2)

MED SCHOOL: University of California San Francisco School of Medicine
UNDERGRAD: Stanford University (Art History; Human Biology)

Anita graduated Phi Beta Kappa from Stanford, where she received the departmental prize in Art & Art History. In college, she worked as the Director of Production for the Stanford Scientific Magazine, an internationally-distributed student-run quarterly overseen by a faculty advisory board led by the former editor-in-chief of *Science*. Bringing her advocacy, leadership, and artistic talents to the fore, she served as President for the Stanford Chapter of Amnesty International, and her work was requested for re-publication in the multi-edition college manual, *Your College Experience: Strategies for Success*. At the Stanford's Cantor Center for the Visual Arts, she curated an exhibition on "Chiaroscuro Woodcuts from 16th Century Italy", which was featured as one of the *San Francisco Chronicle's* "Art Highlights of the Season" in 2010. After graduation, she worked as a research associate at the Center for the Study of the Presidency & Congress in Washington, DC, where she was Project Coordinator for the Commission on U.S. Federal Leadership in Health and Medicine, co-chaired by a former U.S. Assistant Surgeon General and a president emeritus of the Mayo Clinic. In this capacity, she developed and coordinated the Commission's report comprising health policy recommendations to the Administration and Congress that were reflected in national ACA legislation. Matriculating at UCSF for medical school, Anita served as a member of the institution's Do No Harm Coalition to raise awareness of police violence in minority communities. She has been an advisor and mentor to at-risk youth and co-coordinated a medical school course on Social Activism in Medicine. She has contributed to a text chapter on the history of neuroscience, to be integrated into a history of medicine curriculum for future UCSF medical students, and she has published in the *American Journal of Roentgenology*. She has presented at San Quentin State Prison on integrating art therapy into mental health care in correctional settings. She is now coming to Mount Sinai having completed one year of a categorical pediatrics residency at UT Southwestern, looking to expand on her interests in adolescent and young adult medicine with a focus on mental health care. She additionally hopes to further develop her interests in interdisciplinary medical humanities and advocacy in her psychiatric career.

PHYSICIAN-SCIENTIST RESEARCH TRACK



Andrew Smith, MD, PhD

MED/GRAD SCHOOL: Yale University School of medicine
UNDERGRAD: Northwestern University (American Studies)

Andrew was born in Seattle and raised in Shaker Heights, OH where he graduated *cum laude* from University School. While completing his premedical requirements at the Harvard University Extension Program, his research in a cell biology lab localized a novel protein (*Journal of Biological Chemistry*, 2010) and shaped his future career choice to become a Physician-Scientist. In the Medical Scientist Training Program at Yale, he earned his PhD for research done in the lab of Joel Gelernter (Foundations

Fund Professor of Psychiatry; Professor of Genetics and Neuroscience; Director, Division of Human Genetics). Andrew received support from an individual NRSA fellowship funded by NIDA, and his work was recognized by a NIDA Director's Travel Award and a Student Encouragement Award from the International College of Neuropsychopharmacology. The primary goal of Andrew's doctoral work was to advance a "precision medicine" approach that could improve the care of individuals with substance use disorders. Specifically, Andrew's research focuses on using molecular data to select the right treatment for a given patient more efficiently than standard practice, minimizing clinical trial and error. His impressive research during his PhD training has resulted in co-authored publications in *Nature Communications*, *Translational Psychiatry*, *Addiction Biology*, and the *Journal of Biological Chemistry*. In a recent first-author publication in *Molecular Psychiatry*, Andrew connected genetics to opioid agonist dosing. The clinical potential of genetically-tailored patient care—as shown in Andrew's paper—was highlighted by NIDA leadership, who included a discussion of this paper as part of submitted testimony at hearings in the US Congress on the opioid addiction crisis. Andrew's goal at Mount Sinai is to build on his background in statistical genetics by combining other approaches, such as biochemistry, electrophysiology and neuroimaging. He is particularly interested in incorporating biomarkers into randomized clinical trials of therapeutic interventions. His ultimate goal is to characterize individual patients based on a mechanistic understanding of their distinct pathophysiologies, to rationalize treatment selection, and improve outcomes.



Genevieve Yang, MD, PhD

MED/GRAD SCHOOL: Yale University School of Medicine

UNDERGRAD: Columbia University (Biology; Mathematics)

An only child, Genevieve was born in Buffalo and initially raised in Sichuan, China before moving back to the US at age 3. From a very young age she excelled in the sciences. As an example of her outstanding accomplishments, she co-authored a paper that was featured on the cover of *Nature Materials* based on her undergraduate work at Columbia University on synthetic tissue engineering. After considering a career in genetic engineering, Genevieve decided to attend medical school to do clinical research, following the steps of her physician father and grandfather, and she enrolled in Yale's Medical Scientist Training Program. During her MD/PhD at Yale, Genevieve was supported by a NIMH National Research Service Award fellowship and worked with Alan Anticevic and John Krystal (Chair, Department of Psychiatry; Robert L. McNeil, Jr. Professor of Translational Research; Professor of Psychiatry and Neuroscience). Her doctoral work focused on identifying biomarkers for schizophrenia using non-invasive neuroimaging methods and mapping clinical symptoms to underlying neurophysiological changes. For her PhD dissertation, she co-developed an innovative biophysical model of whole-brain activity using simulations of cellular-level dysfunctions for interpreting resting-state functional magnetic resonance imaging (rs-fMRI) findings in schizophrenia patients. Genevieve is an incredibly productive researcher, and has authored 13 publications during her PhD training, including 3 first-author publications in top journals (2 in *PNAS* and 1 in *Cerebral Cortex*). Her debut first-author paper (Yang et al., Altered Global Brain Signal in Schizophrenia, *PNAS* 2014) has already been cited an impressive 137 times. Her work has been recognized with the Predoctoral Scholars Award from the Society of Biological Psychiatry, the Trainee Professional Development Award from the Society for Neuroscience, the Cosyne Presenter Travel Grant, and poster award finalist honors at the Schizophrenia International Research Society and the Society of Biological Psychiatry Meetings. At Mount Sinai, while deepening her clinical knowledge about schizophrenia, Genevieve plans to learn about diverse interventional approaches to neuropsychiatric diseases and continue to use biophysical modeling to map the impact of clinical interventions on neuroimaging biomarkers. Always passionate about helping patients, Genevieve's ultimate goal is to improve our understanding of the biological mechanisms of schizophrenia in order to enhance screening strategies and develop new treatment options.