



2013 Travel Awardees

Dear Travel Awardees,

Welcome to the 52nd Annual Meeting of the American College of Neuropsychopharmacology! The ACNP's Education & Training Committee and Council congratulate you on your selection from among a highly competitive field of accomplished young investigators. Each year the committee receives positive feedback from past travel awardees who place great value on the Annual Meeting and travel awardee experience, and we hope you will find your attendance equally rewarding. The ACNP continues to partner with the Anxiety and Depression Association of America, and we also congratulate those awardees in attendance.

In addition to the scheduled travel awardee reception and luncheon, the Program Committee has put together an exciting program including sessions such as the Career Development Session and Data Blitz that you may find of interest as early career investigators.

We give special thanks to the ACNP mentors who have volunteered their time to guide this talented group of young scientists. Mentorship is one of the most important components of the ACNP Travel Award Program, and the opportunity for travel awardees to engage with established investigators continues to be an essential part of the meeting experience. We know you will find these interactions to be one of the most meaningful aspects of the program.

Be sure to check out the list of past travel awardees that are now ACNP members (inside back cover) -- many of whom have gone on to serve the College in leadership roles.

Enjoy the meeting!

Stephanie O'Malley, Ph.D.

Stephanie S. O'Malley, Ph.D.

Chair, Education & Training Committee

Scott Rauch

Scott L. Rauch, M.D.

Co-Chair, Education & Training Committee

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Anthony Ahmed

Dr. Ahmed's research interests include studying neurocognition in people with schizophrenia and evaluating the benefits of treatments for attenuating neurocognitive deficits. His ongoing project focuses on remediating neurocognitive deficits in long-term hospitalized patients receiving services in a forensic setting. His long-term goal is to study the possible moderating effects of gene polymorphisms on neurocognitive improvement and evaluate psychopharmacological enhancement strategies for cognitive remediation. Dr. Ahmed was born in Washington DC and currently lives in Augusta, Georgia— home of the Masters Golf tournament—near the famed Augusta National. He completed his undergraduate degree at the University of Maryland and completed a Masters of Arts degree and a doctoral degree in Clinical Psychology at the University of Southern Mississippi in 2010. He began a faculty position in the Department of Psychiatry and Health Behavior at the Medical College of Georgia in Georgia Regents University after completing a psychotic disorders postdoctoral fellowship at the same institution in 2011. He enjoys a good run or going for a hike, a good pick-up basketball game, ping-pong, and listening to music—jazz, blues, and Celtic folk. He plays a mean guitar and started piano this year. He is looking forward to meeting other award recipients.



Poster Session III, Wednesday, December 11, 2013
Poster #W151: Neurocognitive Impairments as Putative Predictors of Neuroleptic-induced Movement Disorders in People with Schizophrenia

Aaron Alexander-Bloch

Aaron Alexander-Bloch is an M.D./Ph.D. student in the NIH-Oxford-Cambridge Scholars Program. His training is split between the University of Cambridge, UK, the US National Institute of Mental Health and the David Geffen School of Medicine at UCLA. His Ph.D. research is focused on MRI studies of brain networks in typical development and in people with schizophrenia. He studied philosophy as an undergraduate and computational biology as a Master's student.



Noelle Anastasio

Noelle C. Anastasio, Ph.D. is a Postdoctoral Fellow at the Center for Addiction Research at the University of Texas Medical Branch. Her research is focused on the neurobiological convergence of addiction and impulsivity with the goal to uncover common underlying mechanisms that will provide guideposts for new pharmacotherapeutic approaches for addictive disorders. She received her Ph.D. in pharmacology and toxicology and coupled analyses of behavior and neuroplasticity to elucidate disruptions within the glutamate system which are thought to play a role in the pathogenesis of schizophrenia. Her postdoctoral research, being conducted under the guidance of Dr. Kathryn A. Cunningham, is aimed at uncovering the neurobiological role of serotonin neurotransmission within corticostriatal circuits in the mechanistic underpinnings of vulnerability traits associated with cocaine addiction. Her work combines complex behavioral models and molecular pharmacological techniques to unravel the neurochemical, cellular, and circuitry processes that underlie addictive and impulse-control disorders. Noelle was recently awarded the NIH Pathway to Independence Career Award (K99/R00) from the National Institute on Drug Abuse. Outside of the lab, Noelle enjoys a good margarita and running with her ever-faithful chocolate lab, Hershey.



Poster Session III, Wednesday, December 11, 2013
Poster #W177: What's Serotonin Got to Do With It? Studies on the Actions of SSRIs and Cocaine in SERT M172 Mice

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Ana Andreazza

Dr. Ana Andreazza started her career as Pharmacist and moved towards science to study the antioxidant properties of flavonoids at the Biotechnology Institute at University of Caxias do Sul, Brazil. Over the years she became interested in the involvement of redox mechanisms in the brain, which motivated her to pursue a doctorate degree. As part of her thesis, she investigated the influence of oxidative stress damage in major psychiatric disorders (i.e bipolar disorder and schizophrenia). To follow her goals in research, in 2008 she accepted a postdoctoral position at University of British Columbia to study the oxidative damage to specific mitochondrial proteins in postmortem prefrontal cortex from patients with bipolar disorder and schizophrenia. Currently, she is a scientist at Centre for Addiction Mental Health and an assistant professor at Departments of Psychiatry and Pharmacology and an associate member at Institute of Medical Science at University of Toronto. She is fascinated by the brain and its redox biology, thus, her research interests are based on exploring how redox modification to proteins and DNA change relevant pathways to synapse modulation which can bring to discovery of new pathways to drug discovery or biomarkers that can be used clinically in the diagnosis, prognosis and monitoring of patients with mood disorders. On a personal level, she describes herself as a woman who loves her career but enjoys very much quality time with family and friends. Even better if it involves Brazilian food and music.



Poster Session III, Wednesday, December 11, 2013
Poster #W182: Lithium Ameliorates Rotenone-Induced Methylation and Hydroxymethylation of DNA in Cortical Primary Neurons

Matthew Banks

Dr. Banks completed his PharmD degree in 2003 from Ohio Northern University and his PhD in Pharmacology and Physiology at Wake Forest University in 2007 under the mentorship of Michael Nader, PhD. Dr. Banks then spent a year as a postdoctoral fellow under Leonard Howell, PhD at the Yerkes National Primate Research center at Emory



University before moving to Virginia Commonwealth University for a postdoctoral fellowship under the mentorship of Steve Negus, PhD. Dr. Banks joined the faculty in the Department of Pharmacology and Toxicology at VCU in 2010.

Poster Session III, Wednesday, December 11, 2013
Poster #W200: Effects of Monoamine Releasers with Varying Selectivity to Release Dopamine vs. Norepinephrine in Assays of Cocaine Discrimination and Cocaine vs. Food Choice

Rebecca Bernert

Rebecca A. Bernert, PhD, is an Instructor in the Department of Psychiatry and Behavioral Sciences at Stanford University School of Medicine. Her program of research is focused on the development and testing of novel therapeutic targets for mood disorders and suicide prevention. As a clinical psychologist, she is jointly trained in behavioral sleep medicine and suicidology. She is funded by the National Institutes of Health and the U.S. Department of Defense, with several open-label and randomized controlled treatment trials currently underway. Dr. Bernert has a strong interest in standardized suicide risk assessment and the development of low-risk intervention frameworks that reduce stigma and enhance access to care in the prevention of suicide.



Poster Session II, Tuesday, December 10, 2013
Poster #T172: Sleep Architecture Abnormalities as a Risk Factor for Elevated Suicidal Ideation: A Polysomnographic Investigation of Sleep in Treatment Resistant Unipolar and Bipolar Depression

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Joanna Biernacka

Born in Warsaw, Poland, Joanna Biernacka immigrated to Canada with her family in 1986. After obtaining a BSc Degree in Honors Biology and Mathematics, and a MSc Degree in Statistics, both from McMaster University, in 2005 she completed a PhD in Biostatistics with a focus on statistical genetics at the University of Toronto. She then spent two years as a Postdoctoral Research Fellow at the University of Cambridge UK, with the last few months of the fellowship spent at Newcastle University, UK. During her PhD studies and Postdoctoral Fellowship, she developed statistical methods for complex human genetic data analysis. In 2007 Dr. Biernacka joined Mayo Clinic in Rochester, Minnesota as a faculty member in the newly established S.C. Johnson Genomics of Addiction Research Program, bringing statistical genetics expertise to the group. She established collaborations with clinical investigators in the Departments of Psychiatry and Psychology, and Neurology, and neuroscientists in the Department of Molecular Pharmacology and Experimental Therapeutics, studying various other aspects of neuropsychiatric disease risk and pharmacogenomics. These collaborations allowed her to develop a career track focused on the genetics of neuropsychiatric disorders.



Poster Session III, Wednesday, December 11, 2013
Poster #W98: Clinical and Genetic Predictors of Length of Sobriety in Alcoholics Treated with Acamprosate

Lisa Briand

Lisa Briand, Ph.D. is a Research Associate at the Center for Neurobiology & Behavior at the University of Pennsylvania Perelman School of Medicine. After graduating from Bates College with a Bachelor's degree in Psychology & Biology, Dr. Briand received her Ph.D. from the University of Michigan in 2007. Her work in the laboratory of Dr. Terry Robinson focused on the effects of extended access cocaine self-administration on cognitive function. Dr. Briand then joined the laboratory of Dr. Julie Blendy at the University of Pennsylvania to study the role of

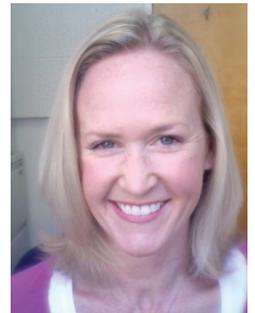


cAMP-binding protein (CREB) in stress-induced reinstatement of cocaine seeking. In 2009, Dr. Briand began work on mouse models of cocaine self-administration in the laboratory of Dr. Chris Pierce, in collaboration with Dr. Blendy. In collaboration with Dr. Rick Haganir at Johns Hopkins, Dr. Briand is currently examining behavioral and physiological correlates of addiction using mice with disruptions in AMPA receptor trafficking. The objective of Dr. Briand's future work is focused on using genetic mouse models to examine the role of AMPA receptor trafficking in cue and stress-induced reinstatement of cocaine seeking.

Poster Session I, Monday, December 09, 2013
Poster #M12: Intraaccumbal Administration of Zeta Inhibitory Peptide (ZIP) Erases Drug Memory and Prevents Cocaine Reinstatement

Alison Burggren

Dr. Burggren has a broad background in neuroscience, with specific training in high-resolution imaging and complex computational algorithms that improve visualization of convoluted areas of cortex. As part of her graduate work, I investigated functional MRI differences in cognitively normal subjects at genetic risk for Alzheimer's disease. As a postdoctoral fellow at UCLA I used cortical unfolding in the human hippocampus to investigate structural differences in subjects at genetic risk for Alzheimer's disease. Now as an Assistant Researcher at UCLA in the Neuropsychiatric Institute, I've expanded my research to investigate the long-term effects on the brain of adolescent drug use in an aging population. Dr. Burggren lives in Aliso Viejo with her husband, with whom she has four children. She enjoys watching her children play sports and traveling with her family.



Poster Session I, Monday, December 09, 2013
Poster #M89: Persistent Cannabis Use During Adolescence Is Linked to Thinner Hippocampal Cortex in Late Life After Decades of Abstinence

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Melisa Carrasco

Melisa Carrasco is originally from San Juan, Puerto Rico and received her Int. B.S. in Molecular, Cellular, and Developmental Biology from Yale University in 2005, and her Master's degree and Ph.D. in Neuroscience from the University of Michigan (in 2009 and 2012, respectively). Her Ph.D. dissertation examined the neural correlates underlying repetitive behavior and performance monitoring in children with Autism Spectrum Disorder and Obsessive Compulsive Disorder. Given her accomplishments as a predoctoral researcher, Melisa has been awarded a Ruth L. Kirschstein National Research Service Award (NRSA) for Individual Predoctoral Fellowship, funded by the National Institute of Mental Health, and the University of Michigan Rackham Merit Fellowship and Rackham Research Grant. In addition, Melisa was accepted into the University of Michigan Edward A. Bouchet Graduate Honor Society in 2010 and named a Society for Neuroscience Scholar in 2011. Melisa is currently a third year medical student at the University of Rochester. In the future, her plan is to pursue a career in research and medicine within the fields of pediatrics or psychiatry.



Poster Session III, Wednesday, December 11, 2013
Poster #W12: Error Monitoring in Autism: Correlates to Symptom Severity

Gregory Collins

Greg was born and raised in Minnesota, and obtained a BA in Biology from the University of St. Thomas before launching his research career in the laboratory of Dr. Paul Pentel at the University of Minnesota where he was involved in evaluating the effectiveness of nicotine-specific antibodies and vaccines. Greg obtained his PhD in Pharmacology from the University of Michigan where he studied the behavioral pharmacology of dopamine D2 and D3 receptor agonists and antagonists under the supervision of Dr. James Woods. Greg has completed two post-doctoral fellowships, one the Woods Laboratory where he focused on evaluating the effectiveness of various cocaine-specific enzymes (CocEs) to reduce the abuse-related and toxic effects of cocaine in rodents and rhesus monkeys, and a second in the laboratory of Dr. Barak Caine at



Harvard Medical School/McLean Hospital where he gained expertise in using operant procedures to study drug effects in mice. Greg is currently an Instructor of Pharmacology at the University of Texas Health Science Center at San Antonio where he continues to investigate the neuropharmacology of drug abuse. In his free time Greg enjoys hiking, camping, and exploring the great outdoors with his wife.

Poster Session II, Tuesday, December 10, 2013
Poster #T34: Determinants of Conditioned Reinforcing Effectiveness: Implications for Relapse to Cocaine-Seeking

Brian Dias

Dr. Brian Dias's scientific research to date has investigated the neurobiology underlying depression, social behavior, and fear in organisms ranging from rats, lizards, fruit flies, and currently, to mice. After investigating the molecular mechanisms underlying antidepressant effects in the adult and developing rat in Dr. Vidita Vaidya's laboratory, he sought to focus on social behavior, namely aggression and courtship in lizards under the mentorship of Dr. David Crews. For his first postdoc, he chose to study the fruit fly with a view toward understanding genetics and probing the genetic basis of innate behaviors like courtship and aggression. While working with flies under the mentorship of Dr. Bruce Baker, he realized that his true research interests hark back to his work in the rats, that is the field of mental health. That mindset saw him joining Dr. Kerry Ressler's laboratory in February 2011. Incorporating Dr. Ressler's strengths in investigating the genetic and molecular underpinnings of mental health dysfunction like PTSD and anxiety, Dr. Dias has designed an experimental paradigm that allows us to ask how parental trauma prior to conception affects the adult behavior of subsequently conceived offspring. This work is immersed in the genetic and epigenetic basis of disease models.



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Daniel Eisenberg

Dr. Daniel Eisenberg is a Staff Clinician in the Section on Integrative Neuroimaging at the National Institute of Mental Health Intramural Research Program. He graduated magna cum laude from Brown University with a Cognitive Neuroscience B.Sc., earned his M.D. from Albert Einstein College of Medicine and completed psychiatry residency training at Beth Israel Medical Center in New York City, where his interest in both PET imaging and dopamine-related psychiatric conditions developed. During his subsequent research fellowship training in Dr. Karen Berman's lab at the NIMH, his work focused on delineating relationships between psychiatric risk genes and imaging endophenotypes relevant to schizophrenia. Since advancing to his current position, he has forwarded this effort in both healthy individuals and patients with an increasingly multimodal, multi-locus neuroimaging genetics approach aimed at refining molecular-to-systems level models of disease and treatment.



Poster Session I, Monday, December 09, 2013
Poster #M32: Impact of DOPA Decarboxylase Genetic Variation on Its In Vivo Enzymatic Activity in Humans

Irina Esterlis

Dr. Irina Esterlis is an Assistant Professor in the Departments of Psychiatry and Diagnostic Radiology at Yale University, with training in neuropsychology and PET imaging. Her research program at Yale is based on multidisciplinary conceptualization of mood and comorbid disorders. Her initial work revolved around examination of constituents of tobacco smoke: their influence on the nicotinic acetylcholinergic system, tobacco craving, and cognition. This work led to a recent proof-of-concept investigation showing that nicotine vaccine can indeed serve as a potential treatment aide for smoking cessation in human subjects. We reported that immunization with a nicotine vaccine can lead to development of sufficient antibodies to sequester some of the nicotine in blood, preventing nicotine from entering the brain, and thus having a potential to reduce the rewarding properties of tobacco smoking. Dr. Esterlis also developed a paradigm to study



the increases of extra cellular acetylcholine with neuroreceptor imaging in vivo in human subjects. This is very valuable given that acetylcholine is one of the major neurotransmitters in the mammalian brain, and dysfunction in the cholinergic system leads to a variety of psychiatric and neurological disorders, including major depressive disorder and Alzheimer's disease. Her passions outside of science include spending time with her family, running, cooking, and reading.

Poster Session I, Monday, December 09, 2013
Poster #M134: Ketamine-induced Changes in [11C] ABP688 Binding in Healthy Human Subjects

Carrie Ferrario

Dr. Ferrario earned her Ph.D. in 2006 from the University of Michigan, where she trained with Dr. Terry E. Robinson. There, she used behavioral and histological approaches to examine alterations underlying addiction to cocaine and amphetamine. Her work in rat models of cocaine addiction showed that distinct neural and behavioral alterations are associated with cocaine self-administration regimens that model drug taking versus drug addiction. During her post-doctoral training with Dr. Marina E. Wolf at Rosalind Franklin University of Medicine and Science, Dr. Ferrario used biochemical approaches to characterize plasticity of striatal glutamate transmission during cocaine withdrawal. Her work was among the first to address the cellular mechanisms by which Ca²⁺-permeable AMPARs, which mediate the incubation of cocaine craving, accumulate during withdrawal from cocaine self-administration. Next, Dr. Ferrario learned whole cell patch clamping approaches in the lab of Dr. Leslie Satin, where she established a link between activation of GluN2B-containing NMDARs and the appearance of Ca²⁺-permeable-AMPA. Since 2012, Dr. Ferrario has been an Assistant Professor in the Department of Pharmacology at the University of Michigan Medical School. Her laboratory studies motivation and striatal function in rodent models of obesity.



Poster Session II, Tuesday, December 10, 2013
Poster #T58: Selective Enhancement of Cue-induced Motivation in Obesity Prone vs. Resistant Rats Is Accompanied by Sensitization to Cocaine and Increased Striatal AMPA Receptor Expression

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Jodi Gilman

Jodi Gilman received her PhD in neuroscience from Brown University in 2008. Her research focuses on structural and functional neural circuitry underlying emotion and decision-making, and how this circuitry changes throughout the initiation, continuance, and cessation of drug and alcohol use. She is currently an Instructor at Harvard Medical School at the Center for Addiction Medicine at Massachusetts General Hospital. She is also a recent awardee of a NIDA K01 Career Development Award investigating the neuroscience underlying social decision-making in young adults using cannabis. When she's not doing science, Jodi enjoys traveling, reading, theater, restaurants, and going on long walks with her dog.



Poster Session I, Monday, December 09, 2013
Poster #M147: Cannabis Use Is Associated with Nucleus Accumbens and Amygdala Abnormalities in Young Adult Recreational Users

John Gray

As a graduate student at Case Western Reserve University, Dr. John Gray worked in the laboratory of Dr. Bryan Roth (now at UNC) studying the mechanisms involved in the desensitization and down-regulation of serotonin 5-HT_{2A} receptors. Then, during his psychiatry residency at the University of California, San Francisco, he became interested in the convergence of evidence suggesting that a dysfunction of glutamatergic synapses and NMDA receptors might underlie the pathophysiology of schizophrenia. As such, he pursued his postdoctoral training at UCSF with Dr. Roger Nicoll, a preeminent synaptic electrophysiology. In Dr. Nicoll's lab, with funding from a NARSAD Young Investigator Award, he examined the physiological function of a well-described developmental switch in NMDA receptor subunit composition during synapse maturation. More recently, he has begun to couple the molecular and cellular biology techniques from his doctoral work with synaptic electrophysiology to study the trafficking and regulation of NMDA receptors in a novel molecular replacement system. As a psychiatrist and synaptic biologist, his long-term research goal is to improve our understanding of the synaptic basis of complex neuropsychiatric disorders. Outside of the



lab, John enjoys hiking, camping, brewing beer and ballroom dancing.

Poster Session II, Tuesday, December 10, 2013
Poster #T78: Novel Replacement Strategy for Dissecting NMDA Receptor Regulation

Anett Gyurak

Anett Gyurak is a postdoctoral scholar with dual appointments in the Department of Psychiatry and Psychology at Stanford University working with Drs James Gross and Amit Etkin. She received her BA in psychology from Eotvos Lorand University in Budapest, Hungary in 2000, and subsequently completed a doctorate in psychology at UC Berkeley in 2010. In her spare time Anett enjoys being outside in sunny northern California on the bike, running, or just hanging out with friends and family.



Poster Session I, Monday, December 09, 2013
Poster #M179: Cognitive-Affective Remediation Training Intervention in Anxiety and Depression

Elizabeth Heller

Elizabeth Heller, PhD began conducting genomic research at The Public Health Institute (New York) at the age of fourteen, when she could scarcely understand what her patient mentor was telling her. Clarity came with a formal undergraduate education in neuroscience at The University of Pennsylvania, with a research focus on sleep and memory consolidation. Dr. Heller then pursued a graduate fellowship at The Rockefeller University, where she developed a novel method for biochemical isolation of the elusive inhibitory synapse. Currently, Dr. Heller conducts postdoctoral research on transcriptional regulation of addiction and depression at the Icahn School of Medicine at Mount Sinai, in which she has developed the application of engineered transcription factors to reprogram individual genetic loci in vivo. Dr. Heller is passionate about teaching, enjoying both the exuberance of the students and the bizarre qualia of the classic literature. When not in the lab, you can find her running in central park with her vizsla or sparring in taekwondo.



Poster Session II, Tuesday, December 10, 2013
Poster #T81: Locus Specific Epigenetic Reprogramming: Bidirectional Regulation of the FosB Gene Using Synthetic Transcription Factors In Vivo

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Thomas Hnasko

Born in Milwaukee Wisconsin, Tom Hnasko developed an early appreciation for the physical and life sciences. Majoring in Pharmacology and Toxicology at the University of Wisconsin-Madison, Tom honed his interest in the mind and the principals and mechanisms by which drugs influence the brain. Upon graduating (1999), Tom interned in a neuroscience lab studying glial pathologies where he became familiar and enraptured with using mouse genetics to study the brain. In 2000, Tom moved to Seattle where he joined the lab of Richard Palmiter at the University of Washington. Here, Tom learned to build and use mouse models and viral vectors to manipulate synaptic transmission in discrete neural circuits; and applied these skills to the study of drug addiction. Inspired by his findings in the Palmiter lab, Tom joined the lab of Robert Edwards (UCSF) to study vesicular transporters and probe the capacity and function of neurotransmitter co-release from dopamine neurons. In 2012 Tom became an Assistant Professor within the UCSD Neurosciences department where his lab aims to define the role of discrete neural circuits in drug addiction and other compulsive behaviors. Outside lab, Tom enjoys fly fishing, racquetball, baseball, brewing, reading, and spending time with his 1-year old daughter.



Poster Session II, Tuesday, December 10, 2013
Poster #T80: Glutamatergic Neurons in the Ventral Tegmental Area: Properties & Physiological Role

Ellen Hoffman

Ellen J. Hoffman, MD is a clinically trained child psychiatrist, who is currently pursuing her PhD in Investigative Medicine at Yale University. Ellen is originally from Huntington, NY. She studied Biochemistry and English at the SUNY Stony Brook Honors College and obtained an MD with Recognition in Research degree from SUNY Stony Brook School of Medicine in 2003. She completed her residency in Psychiatry in 2006, and her fellowship in Child and Adolescent Psychiatry in 2008 at Mount Sinai School of Medicine. Her current research involves developing a novel approach to elucidating the basic biological



mechanisms underlying autism and to identifying new pharmacological treatments. She is developing this project under the mentorship of Matthew State, MD, PhD and Antonio Giraldez, PhD. Currently, Ellen resides in New Haven, CT, where she continues to practice child psychiatry at a community mental health center, while conducting research towards her PhD.

Poster Session II, Tuesday, December 10, 2013
Poster #T67: A Zebrafish Model for the Functional Analysis of Genes in Autism

Guillermo Horga

Guillermo Horga was born in Madrid, Spain. He received his M.D. degree from the Miguel Hernandez University of Spain in 2004. He completed his clinical specialization in Psychiatry at the Hospital Clinic of Barcelona, Spain, where he started his studies on the brain mechanisms underlying schizophrenia. His dissertation work explores brain metabolism during the experience of auditory verbal hallucinations in patients with acute psychotic symptoms. After his residency, he joined Dr. Brad Peterson's brain imaging laboratory at the New York State Psychiatric Institute (Columbia University Medical Center) as an Koplowitz post-doctoral fellow, where he applied functional magnetic resonance (fMRI) to the study of the neural mechanisms of learning and cognition in health as well as their disruption in a number of psychiatric disorders (including obsessive-compulsive disorder, major depression and schizophrenia). His current work aims to combine fMRI techniques and computational modeling to better understand the mechanisms that generate psychotic symptoms in schizophrenia. He lives with his wife Anna and their cat Katerina in New York City, where he enjoys live music, films, and world cuisine.



Poster Session I, Monday, December 09, 2013
Poster #M132: Distinct Types of Sensory Prediction-Error Signals in Schizophrenia with Active Psychosis

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Emily Jacobs

Emily Goard Jacobs received her B.A in neuroscience from Smith College in 2004 and her Ph.D. in neuroscience from the UC Berkeley in 2010 under the mentorship of Mark D'Esposito. Using a multi-tier approach, including fMRI, molecular PET imaging (to target specific neurochemical systems),



neuroendocrinology, genetics and behavior, she investigated the way endogenous fluctuations in estradiol during a woman's menstrual cycle alters dopaminergic signaling, in turn impacting PFC function. Following her graduate work Dr. Jacobs pursued a Robert Wood Johnson Foundation Health and Society fellowship from 2010-2012. With Elissa Epel and colleagues at UCSF she examined the impact of the APOE-e4 risk allele on cell aging (telomere attrition) in healthy, mid-life women. As a junior faculty member and BIRCWH scholar at Harvard Medical School and Brigham and Women's Hospital under the mentorship of Jill Goldstein, Dr. Jacobs is continuing her investigation of the role gonadal and adrenal hormones play in brain function, including the impact of prenatal stress exposure on the aging of memory circuitry. Building on data from a three-generation birth cohort she is examining fetal antecedents that shape chromosomal and neural aging trajectories through mid-life, with an emphasis on potential sex-specific mechanisms. Emily's husband, Michael, is also a neuroscientist. They live in Cambridge and are thrilled to be welcoming their first baby, a daughter, in June.

Poster Session III, Wednesday, December 11, 2013
Poster #W224: Gonadal Hormone Regulation of Stress Circuitry Activity in Healthy Women Is Disrupted in Major Depressive Disorder

Amy Janes

Amy Janes, Ph.D. is an Assistant Professor at McLean Hospital/Harvard Medical School. She received her B.A. in psychology from Rutgers University and both her M.A. and Ph.D. in psychology from Boston University. Her dissertation work focused on the role of intracellular processes contributing to



cocaine dependence in rodent models. In coming to McLean Hospital, Dr. Janes' work shifted to the study of nicotine dependence in clinical populations using a range of neuroimaging techniques. Her main research interests include understanding the role of drug-associated stimuli in addiction, determining the role of cognitive processes in drug cue reactivity, and identifying individual risk factors for developing and maintaining addictive disorders.

Poster Session I, Monday, December 09, 2013
Poster #M50: Memory Retrieval of Addiction-Related Images Induce Greater Insular Activation as Revealed by an fMRI Based Delayed Matching to Sample Task

Johanna Jarcho

Johanna Jarcho, Ph.D. is a postdoctoral fellow in the Section on Developmental and Affective Neuroscience, at the National Institute of Mental Health. The central aim of Dr. Jarcho's research is to understand how social cognition, behavior, and neural systems work together to confer risk for, and resilience against, psychopathology in adolescents.



Dr. Jarcho's ongoing research uses functional magnetic imaging (fMRI) to determine if the neural circuits engaged by social acceptance and rejection vary depending on stage of development, expression of social anxiety, and risk for social anxiety. Current models of risk for social anxiety include history of behaviorally inhibited temperament in early childhood and exposure to peer victimization. Dr. Jarcho received her M.A. and Ph.D. in Psychology from the University of California, Los Angeles (UCLA), during which time she completed several NIH-funded pre- and postdoctoral projects on the neural mechanisms underlying social cognition the neurobiology of pain.

Poster Session I, Monday, December 09, 2013
Poster #M48: Dysregulated Neural Response to Social Evaluation in Bullied Adolescents: A Potential Mechanism That Promotes Risk for Social Anxiety Disorder

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Nina Kraguljac

Nina Kraguljac, MD, MA is an Assistant Professor at the University of Alabama at Birmingham. Born and raised in Austria, Nina graduated cum laude from the Paracelsus Medical University in Salzburg before moving to the states for her general psychiatry residency training at UAB. As part of the research track she joined Dr.



Adrienne Lahti's lab, and focused on neurometabolite abnormalities in patients with schizophrenia. This work has shown a disruption in the relationship between N-acetyl-aspartate (NAA) and glutamate in the hippocampus of both medicated and unmedicated patients with schizophrenia, and elevations of glutamate in unmedicated patients. Her goals are to better understand the underlying pathophysiology of these neurometabolite abnormalities and its potential utility as new drug targets. In her free time, Nina enjoys travelling, reading and cooking for friends.

Poster Session I, Monday, December 09, 2013
Poster #M141: Disrupted Resting State Functional Connectivity in Unmedicated Patients with Schizophrenia

Kyle Lapidus

Kyle Lapidus is a translational neuroscientist who is interested in the mechanisms and treatment of mood and anxiety disorders. After working in basic science as an undergraduate at Harvard and following undergraduate training in Eric Kandel's Lab at Columbia, Lapidus enrolled in the Medical Scientist



Training Program at Albert Einstein. There, Lapidus performed dissertation research studying the RNA binding protein, ZBP1, in Robert Singer's Lab. Since beginning residency in Mount Sinai's Physician-Scientist track, Lapidus has performed clinical research in major depression and obsessive-compulsive disorder. Lapidus is currently Chief Resident for Research in Psychiatry, and his current work focuses on treatment-resistant depression. His research projects include therapeutics development and translational mechanistic studies. With support

from NARSAD, Lapidus has worked to develop more patient- and clinician-friendly approaches to rapid antidepressant treatment with intranasal ketamine and has explored the mechanism of ketamine action using magnetic resonance spectroscopy. In addition to pharmacotherapy, Lapidus is also interested in device-based neuromodulation and, with Simons Foundation support, is studying the treatment of depression using a new target for deep brain stimulation, the lateral habenula. Kyle Lapidus lives with his wife and three children in New York City, where he enjoys participating in culture and science.

Poster Session II, Tuesday, December 10, 2013
Poster #T139: Intranasal Ketamine in Treatment-Resistant Depression

Conor Liston

Conor Liston, MD, PhD, is a postdoctoral research fellow in the Department of Psychiatry and Behavioral Science at the Stanford School of Medicine. His research interests lie at the interface between basic neuroscience and biological psychiatry. On a basic level, he is interested in understanding the mechanisms that govern synaptic plasticity during learning and development



and how these processes shape circuit function. As a psychiatrist, he is particularly interested in how stress and sleep interact to regulate synaptic remodeling in corticolimbic circuits, especially during adolescence and young adulthood, when major psychiatric disorders most commonly emerge. He is a co-author 15 peer-reviewed publications, including articles in *Nature*, *Science*, *Nature Neuroscience*, *Neuron*, *PNAS*, the *American Journal of Psychiatry*, and *Biological Psychiatry*, among others. Prior to coming to Stanford, he was a summa cum laude graduate of Harvard College, and he completed his graduate, medical, and residency training at the Rockefeller University and Weill Cornell Medical College.

Poster Session I, Monday, December 09, 2013
Poster #M142: Connectivity Deficits in Chronic Stress and Depression: Resilience, Reversibility, and Clinical Implications

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James McCutcheon

Dr. McCutcheon's work aims to understand how the brain processes rewarding and aversive stimuli to generate behavior. Dysfunction in the circuitry that sub-serves such processing is thought to underlie numerous psychiatric disorders, prominently drug addiction and depression. In addition, even obesity, which was previously thought to be simply a matter of energy balance, is now believed to be caused, at least in part, by plasticity within these same brain regions. His neuroscience career started as an undergraduate at University of Sussex in Brighton on the south coast of England. He went on to complete his Ph.D. at University College London with Prof. Steve Hunt where he demonstrated the importance of genetic background to the phenotype of mice lacking the neurokinin-1 receptor. Since 2007, he has been based in Chicago where he spent the first three years at Rosalind Franklin University working with Dr. Michela Marinelli on vulnerability to addiction and relapse. Currently, he is at UIC under Dr. Mitch Roitman's mentorship, where he is trying to tease apart the relative contribution of metabolic and hedonic properties of food. When Dr. McCutcheon is not in the lab, he spends most of his time stopping his small children from destroying his apartment.



Poster Session III, Wednesday, December 11, 2013
Poster #W180: Suppression of Drug-Evoked Nucleus Accumbens Dopamine by Somatic Hyperpolarization

Yann Mineur

Dr. Mineur has a long-standing interest in the cellular and molecular basis of psychiatric disorders including anxiety/depression, addiction, eating disorders, and their potential treatments. His primary interest has focused the molecular and neuroanatomical dissection of mood regulation with a focus on the cholinergic system and he has used multiple tools ranging from genetic, molecular, biochemical, electrophysiological and behavioral techniques to gain broad insights in the neurobiological factors underlying



the etiology of psychiatric disorders in general. His multi-technique approach also reflects his wide interests for neurobiology in general and the different subjects that have spun off from his core project ranging from the study of other neurotransmitters modulating affect, to comorbid aspects of depressive disorders including feeding regulation and drugs of abuse. While he has been working on these subjects for over a decade and has thrived to constantly advance the different projects and subjects he has been working on, he is also always trying to promote new interactions and collaborations. His broad interests are also echoed in his personal life as a husband, father of two, avid sportsman (windsurfing, skiing, running, biking, rollerblading...), guitarist, coral aquarist, and other hobby enthusiast!

Poster Session II, Tuesday, December 10, 2013
Poster #T110: Neurobiological Basis of Augmentation Strategy of Serotonin Specific Reuptake Inhibitor by Compounds Able to Limit High Affinity Nicotinic Acetylcholine Receptors

Amanda Mitchell

Amanda Mitchell was born and raised in Nashville, TN. She obtained her Bachelors of Science degree in Molecular and Cellular Biology from Vanderbilt University in 2006. She also completed her Doctorate of Philosophy degree in the laboratory of Károly Mirnics at Vanderbilt University in 2011, where she studied gene expression changes associated with physical activity and neuronal sparing in a rhesus monkey model of Parkinson's disease. Her interests deepened to regulation of gene expression and epigenetics. In January of 2012 she joined Schahram Akbarian's laboratory at the University of Massachusetts Medical School in Worcester, MA as a postdoctoral research fellow, where she began work on the three-dimensional organization of chromatin in schizophrenia. In September of 2012 she moved with the Akbarian laboratory to the Icahn School of Medicine at Mount Sinai in New York, NY. Dr. Mitchell uses innovative techniques to study the three dimensional organization of the genome and transcriptional dysregulation in schizophrenia.

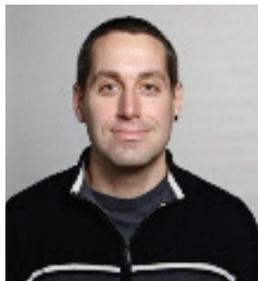


Poster Session II, Tuesday, December 10, 2013
Poster #T86: The Genome in Three Dimensions: A New Frontier in Human Brain Research

ACNP 2013 Travel Awardees

Scott Moeller

Scott J. Moeller received his B.A. from Stony Brook University in 2005 and his Ph.D. in Psychology from the University of Michigan in 2010. Upon graduating from Michigan, he received an F32 Postdoctoral National Research Service Award to (partially) change fields and study neuroimaging in addiction under the mentorship of Dr. Rita Z. Goldstein, with whom he still works (first at Brookhaven National Laboratory and currently at Icahn School of Medicine at Mount Sinai). He remains a proud and avid follower of University of Michigan athletics, especially American football. He lives in Queens, NY with his wife, Antonella.



Poster Session III, Wednesday, December 11, 2013
Poster #W60: Monoamine Polygenic Liability in Health and Cocaine Addiction: Imaging Genetics Study

Minae Niwa

Dr. Niwa's research interests are focused on understanding the mechanism of psychiatric disorders by combining approaches in pharmacology, neurochemistry, in vivo microdialysis, genetic manipulation by in utero RNAi gene transfer and stereotaxic injection, animal behaviors, and epigenetics. During her Ph.D. study, she conducted neuropsychopharmacology, especially behavioral and biochemical analyses, in her research on drug addiction. During her postdoctoral studies, she extended her research interest from drug addiction to psychiatric disorders, and got further training on psychiatry research at Johns Hopkins University (mentor: Dr. Sawa). She has demonstrated the significance of developmental trajectory in the pathology of schizophrenia. She has also showed a novel molecular link between adolescent stressors and epigenetic controls in dopaminergic neurons via glucocorticoids and demonstrated possible therapeutic strategy for psychotic depression. Based on these experiences, She is now preparing herself for her own research to dissect the mechanism of psychiatric disorders by a novel approach that integrates the concepts and skills in neuroscience and endocrinology. In her personal life, she enjoys motherhood very much. Her baby is growing at a rapid pace. She is very interested in her brain development and behavior.

Poster Session II, Tuesday, December 10, 2013
Poster #T18: Roles of Glucocorticoids in a Trajectory from Adolescent Social Stress to Adult Behavior

Aoife O'Donovan

Dr. Aoife O'Donovan is an Adjunct Assistant Professor and a Society in Science - Branco Weiss Fellow at the San Francisco VA Medical Center and the Department of Psychiatry, University of California, San Francisco (UCSF). Her research goal is to uncover the mechanisms by which traumatic and chronic stress exposure increase risk for mental and physical disorders. To this end, she has studied the effects of psychological stress exposure on the endocrine and immune systems in humans. Her work to date has revealed associations of psychological stress with elevated inflammation and oxidative stress, and with accelerated cellular aging as indexed by telomere length. In her current work, she is examining if exaggerated neurobiological sensitivity to threat promotes the development of psychiatric and physical disorders through elevated inflammation in the aftermath of trauma exposure. Dr. O'Donovan received an undergraduate degree in applied psychology from University College Cork, a masters degree in health psychology from the National University of Ireland, Galway, and a PhD in clinical psychobiology from University College Dublin. She received Fulbright and Rotary International scholarships to study at UCSF as a graduate student, and she was awarded the Neal E. Miller New Investigator Award for Early Career Contributions to Behavioral Medicine Research in 2012.

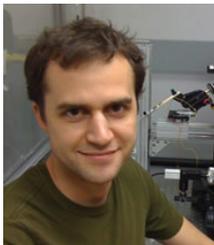


Poster Session II, Tuesday, December 10, 2013
Poster #T198: Inflammation Is Heightened in Iraq and Afghanistan Veterans with Posttraumatic Stress Disorder

ACNP 2013 Travel Awardees

Pavel Ortinski

Pavel I. Ortinski investigates synaptic correlates of addiction in rats trained to self-administer cocaine. His work uses electrophysiological and behavioral techniques and focuses primarily on interaction between dopamine and glutamate receptors in the nucleus accumbens. Although his main hobby is spending time with his children, he is an avid soccer player and also enjoys a good game of chess.



Poster Session II, Tuesday, December 10, 2013
Poster #T16: Distinct Roles of PKC Signaling at Direct and Indirect Pathway Medium Spiny Neurons During Reinstatement of Cocaine-seeking

Harry Pantazopoulos

Harry Pantazopoulos has dedicated his career to studying the mechanisms involved in mental illness, specifically schizophrenia and bipolar disorder, with the long-term goal of developing therapeutic and preventative treatments for these disorders. These research interests are currently focused on understanding the molecular mechanisms involved in circadian rhythm disruption in mood disorders. Sleep and circadian rhythm disturbances are highly prevalent in major depression and bipolar disorder, yet understanding the molecular components in human subjects behind these disruptions has been elusive. Harry is pursuing this question by combining postmortem brain studies of the master clock of the brain, the suprachiasmatic nucleus, with animal models reflecting molecular abnormalities observed in the human suprachiasmatic nucleus, in order to identify the mechanisms involved in sleep and circadian rhythm disturbances in these disorders, and how such disturbances contribute to mood dysregulation. Harry also enjoys teaching university courses, particularly undergraduate courses in anatomy, physiology, and psychology. In his free time, Harry is an avid basketball fan, who coaches local church league youth basketball teams.



Poster Session I, Monday, December 09, 2013
Poster #M24: Chondroitin Sulfate Proteoglycan Abnormalities in Schizophrenic and Bipolar Disorder Subjects

Alfred Robison

AJ Robison is a new Assistant Professor of Physiology and Neuroscience at Michigan State University, where his lab focuses on the transcriptional and epigenetic effects of drugs of abuse on hippocampal function. In particular, the lab studies how drug-induced changes in gene transcription affect hippocampal synaptic plasticity, the structure of hippocampal cells and synapses, and the behavioral responses of mice to drugs. AJ received his PhD from Vanderbilt University, where he also met his wife, fellow neuroscientist Michelle Mazei-Robison. Both AJ and Michelle went on to postdoctoral fellowships with Eric Nestler at Mount Sinai in New York City, where they studied the effects of drugs on the brain's reward circuitry. They moved to East Lansing, MI, in October of 2012, where they now live with their precocious 5-year-old daughter, Auden, and divide their time between their labs, their kitchens, and the playground.



Poster Session II, Tuesday, December 10, 2013
Poster #T98: Role of Hippocampal Δ FosB in Associations of Cocaine with Environment

Ramiro Salas

Professionally, Dr. Salas is interested in helping understand the processes of addiction, depression, and mental health in general. He thinks great strides will be made in these fields in the next few years and he hopes he will be able to keep contributing to the knowledge. His scientific background is mainly in molecular biology and he feels that he is living what should be the dream of many scientists: to test in humans the hypotheses derived from his work in models. He loves science very much. However, sometimes he is not sure what to answer when asked "why are you a scientist?" He says "to help contribute knowledge that may be useful to alleviate sickness and pain" or "because it is just fun". Both seem true to him. Outside the lab he divides his time between family (Dr. Salas and Marcela are deeply proud of their teenage boy and girl, however weak their respective prefrontal cortices still may be); and theatre (his stress escape is to be an actor in Playback Theatre, an improvisational form where they play stories told by audience members, a mix between theater and psychodrama).



Poster Session I, Monday, December 09, 2013
Poster #M103: Ketamine Reduces Left Nucleus Accumbens Volume within 24 Hours of Treatment of Major Depressive Disorder Patients

ACNP 2013 Travel Awardees

Theodore Satterthwaite

Theodore D. Satterthwaite, M.D. M.A. is an Instructor in the Department of Psychiatry at the University of Pennsylvania Perelman School of Medicine. His research focuses on charting trajectories of brain development using multi-modal neuroimaging in order to understand the developmental origins of mental illness. Specifically, as part of this developmental approach, Ted investigates how reward system dysfunction and abnormal patterns of connectivity evolve during development and result in symptoms such as anhedonia across traditional diagnostic categories. In addition, he has a particular interest in resting-state functional connectivity data analysis methodology, data integration using multivariate pattern analysis techniques, and imaging-genomics. In addition to his own studies examining reward dysfunction in adolescents and adults with mood disorders and schizophrenia, Ted has led the image analysis effort for the ongoing study of the Philadelphia Neurodevelopmental Cohort, a large-scale initiative to led by his mentor Dr. Raquel E. Gur. Beyond this extremely exciting work and his love of neuroimaging data, Ted enjoys a very full life along with his rapidly growing family, including his wife, 3-year-old twins, a new baby, and a loyal dog.



Poster Session I, Monday, December 09, 2013
Poster #M52: Striatal Activation Induced by mGluR2 Positive Allosteric Modulation Correlates with Negative Symptom Reduction in Schizophrenia

Jesse Schank

Originally from Fairfax, Virginia, Dr. Schank attended the University of Virginia as an undergraduate, where he studied Biology and Psychology. He then went on to earn a PhD in the laboratory of Dr. David Weinschenker at Emory University, studying the role of norepinephrine in cocaine-related behaviors. Currently, Dr. Schank is pursuing his post-doctoral studies in the laboratory of Dr. Markus Heilig at the National Institute on Alcohol Abuse and Alcoholism, studying the role of the neurokinin-1 receptor in the regulation of alcohol seeking. He is currently on the job market, applying



for Assistant Professor positions in academic and biomedical research institutions. His future research program will focus on the interaction between stress and drug seeking, and how this is mediated by neuroactive peptides. Dr. Schank lives in the Mt. Pleasant neighborhood of Washington, DC with his wife, one year old daughter, and two cats. When not in the lab, he enjoys running, playing soccer, hiking, and birdwatching.

Poster Session III, Wednesday, December 11, 2013
Poster #W154: The Neurokinin-1 Receptor Mediates Stress-Induced Reinstatement to Alcohol and Cocaine Seeking

Sudhakar Selvaraj

Sudhakar Selvaraj is a senior clinical research fellow based at the Psychiatry imaging group (Dr Oliver Howes), Institute of clinical studies, Imperial College London. He qualified in Medicine in India (2000) and then completed psychiatry training at Oxford and Maudsley Hospital, Institute of Psychiatry, London. His research has focussed on understanding the neurochemical mechanisms underlying the Mood disorders. He investigated the role of brain serotonin transporters in depression (PhD Supervisor: Professor Philip J Cowen, Oxford) using experimental psychopharmacological approach and functional imaging techniques such as Positron emission tomography (PET) and Magnetic Resonance Imaging at the Hammersmith Hospital MRC Cyclotron unit, London. He would like to develop reliable biomarkers that can be useful in clinical settings and as well as for developing novel treatments. He has recently developed a new way of indexing serotonin levels in vivo in humans, using PET imaging, and is now examining how the brain serotonin modulate neural processing of emotion and memory. Alongside, he is also investigating the neuroinflammatory biomarkers in Schizophrenia and Mood disorders. His clinical work is based at the South London Maudsley Hospital where he treats schizophrenia patients with treatment resistant illness. His other interests include chess, cricket and brain-computer interface.



Poster Session I, Monday, December 09, 2013
Poster #M47: Serotonin and Affect Regulation in Humans: A Combined 5-HT1A [11C]CUMI-101 PET and FMRI Study

ACNP 2013 Travel Awardees

Nicholas Simon

Nicholas Simon grew up in Wisconsin and received a Bachelor of Arts in Biology at Carthage College. He went on to earn my PhD in Psychology at Texas A&M University with Barry Setlow, where he studied the dopaminergic mechanisms of decision-making. He is currently a post doctoral fellow at the University of Pittsburgh in the lab of Bitá Moghaddam. His current research focuses on neural encoding of goal-directed behavior in distinct regions of prefrontal cortex, and the assessment of neural and pharmacological differences between adolescent and adult rats. He is an avid fan of Wisconsin sports teams, and was thrilled to earn his doctorate because of his childhood love of the video game Dr. Mario.



Poster Session II, Tuesday, December 10, 2013
Poster #T237: Adolescent Ventral Tegmental Area Neurons Maintain Cue Evoked Responding After Extinction: A Mechanism for Adolescent Behavioral Flexibility?

Alicia Smith

Dr. Alicia K. Smith is an assistant professor of Psychiatry & Behavioral Sciences at Emory University in Atlanta, Georgia. She received her Ph.D. in molecular genetics from Wake Forest University and completed postdoctoral fellowships in genetic epidemiology at the Centers for Disease Control & Prevention and psychiatric genetics at Emory's Department of Human Genetics. Over the past 6 years, she has built a research program that focuses on the genetic and epigenetic predictors of behavioral and psychiatric traits, which has resulted in grant funding from NIMH, AFSP and NARSAD and dozens of peer-reviewed publications. Dr. Smith is an active participant in the Genetics & Molecular Biology Graduate Program through which she lectures on behavioral genetics, gene-environment interactions and personalized medicine and also supervises graduate student research. Outside of professional interests, she is an active volunteer for Great Pyrenees Rescue of Atlanta and enjoys international travel, hiking and knitting.



Poster Session III, Wednesday, December 11, 2013
Poster #W63: (W63) A Candidate Gene Analysis of Acoustic Startle Latency and Psychosis

Luke Stoeckel

Luke Stoeckel is a clinical neuropsychologist who specializes in patient-oriented neuroscience research. He completed his undergraduate studies at Harvard College, his PhD in Medical/Clinical Psychology at the University of Alabama at Birmingham, and his internship and postdoctoral training at MGH and Harvard Medical School (HMS). He is currently an Assistant in Psychology, Department of Psychiatry, MGH and an Assistant Professor in Psychology, Department of Psychiatry, HMS. In 2013, Dr. Stoeckel will be a Visiting Scientist in the Gabrieli lab at MIT. Dr. Stoeckel's research interests include the investigation of brain-behavior relationships in neuropsychiatric disorders using cutting-edge technologies like functional magnetic resonance imaging (fMRI). His primary current research project involves developing real time fMRI neurofeedback as a tool to investigate the pathophysiology of disorders like addiction and obesity, with the aim of identifying rational, novel therapeutics based on this knowledge. His work is supported by the National Institute of Drug Abuse, the Brain & Behavior Research Foundation (formerly NARSAD), and the Charles A. King Trust. On a personal note, he enjoys rooting for the LA Dodgers (and occasionally the Red Sox) and spending time with his wife (Casie) and their Boston Terrier (Bucky).



Poster Session I, Monday, December 09, 2013
Poster #M203: The Effect of Real Time fMRI Neurofeedback on Food and Cigarette Craving

ACNP 2013 Travel Awardees

Joseph Taylor

Joseph J. Taylor is a 7th year MD/PhD student at the Medical University of South Carolina (MUSC). He previously attended Davidson College where he studied long-term potentiation in the rodent hippocampal formation. After graduating cum laude with High Honors in Neuroscience from Davidson, Joseph spent a year studying the neurophysiology of movement disorders as a Post-Baccalaureate Intramural Research Training Award Fellow at the National Institute of Neurological Disorders and Stroke at the National Institutes of Health. After enrolling in the Medical Scientist Training Program at MUSC, Joseph conducted his dissertation research in the Brain Stimulation Laboratory under the direction of Mark S. George, MD. The broad purpose of his dissertation project was to use transcranial magnetic stimulation and functional magnetic resonance imaging to map and modulate top-down analgesic circuitry. After graduation, Joseph plans to pursue dual residency training in neurology and psychiatry. He plans to become a clinical neuroscientist who creates, evaluates and implements stimulation-based therapies for patients with neuropsychiatric disorders. Outside of medicine and science, Joseph is interested in Symbolist art and literature, fashion, running, strength training and music.



Poster Session I, Monday, December 09, 2013
Poster #M61: Naloxone-Reversible Modulation of Pain Circuitry by Left Prefrontal Repetitive Transcranial Magnetic Stimulation

Mary Torregrossa

Dr. Mary Torregrossa grew up with parents who were scientists, and so she always wanted to be a scientist too. Her journey began as an undergraduate at the University of Maryland College Park, where she received degrees in biochemistry and psychology and had the great fortune to work with Dr. Sue Carter studying oxytocin and pair bonding in prairie voles. From that point on she was hooked on doing research focused on the brain and behavior. This led her to join the graduate program in Neuroscience at the University of Michigan where her training in neuropsychopharmacology continued (and never stopped) in the lab of Dr. James



Woods studying the antidepressant effects of drugs. She received subsequent postdoctoral training in the labs of Drs. Peter Kalivas at the Medical University of South Carolina and Jane Taylor at Yale University, where she began studies in drug addiction. She is now enjoying being a member of the faculty in the Department of Psychiatry at the University of Pittsburgh where this work continues today. She also enjoys her two beautiful children and two dogs. They enjoy spending time together as a family visiting museums, attending sporting events, hiking, canoeing, and taking trips to the beach.

Poster Session I, Monday, December 09, 2013
Poster #M217: Identification of Signaling Cascades Regulating the Extinction and Reconsolidation of Cocaine-Associated Memories Using Phosphoproteomics

Natalie Tronson

Natalie Tronson is interested in understanding the molecular basis of memory and how events such as stress and illness can modulate memory and contribute to disorders of memory and emotion. Natalie is an Assistant Professor in the Department of Psychology at the University of Michigan. She holds a B.Sc (Hons) from UNSW in Sydney, Australia, and received a PhD from Yale University for her work on memory reconsolidation in the laboratory of Professor Jane R. Taylor. Natalie moved to Northwestern University for a post-doctoral position with Professor Jelena Radulovic where she studied the signaling mechanisms of context fear conditioning and extinction, and the modulation of memory by stress. Natalie's lab is currently supported by a Pathways to Independence award aimed to determine the role of brain region specific cytokine-dependent signaling in dysregulation of memory and emotion. In her free time, she would be swimming, biking, and running, but has discovered that as new faculty, she has no free time.



Poster Session II, Tuesday, December 10, 2013
Poster #T57: Long-term Modulation of Memory and Emotion after a Systemic Inflammatory Event

ACNP 2013 Travel Awardees

Marin Veldic

Dr. Marin Veldic is Mayo Clinic Scholar and child and adolescent psychiatry resident (PGY-5) at the Mayo Clinic, Rochester, Minnesota. Having grown up in Croatia and Germany, he received his MD degree from the University of Zagreb and was trained in clinical psychiatry at the Vrapce Psychiatric and Zagreb University Hospital in Croatia. Driven by strong inclination for molecular psychiatry he relocated to the USA and joined Dr. Erminio Costa's laboratory at the University of Illinois at Chicago where he studied epigenetic regulation of gene expression in psychosis. Results of his studies were published in series of seminal publications with only Marin's first author papers being cited over 300 times. In 2008 he started psychiatric residency at the Mayo Clinic but continued with molecular epigenetic research focusing on glutamatergic dysfunction in bipolar disorder. He currently conducts research under the mentorships of Dr. Mark Frye and Dr. Doo-Sup Choi. In 2012 he was awarded Marriott Career Development Award that will fund his project on epigenetic regulation of candidate genes in patients with bipolar disorder with and without comorbid addiction for three year period. In his free time Marin enjoys traveling and playing tennis with his children.



complex called BAF53b. She is currently extending this line of research to explore the role of nBAF in intellectual disability disorder. Annie's long-term goal is to expand this work during a post doctoral fellowship on her way to becoming an independent principle investigator.

Poster Session II, Tuesday, December 10, 2013
Poster #T88: The Neuron-Specific Chromatin Regulatory Subunit BAF53b is Necessary for Epigenetic Regulation of Synaptic Plasticity and Memory

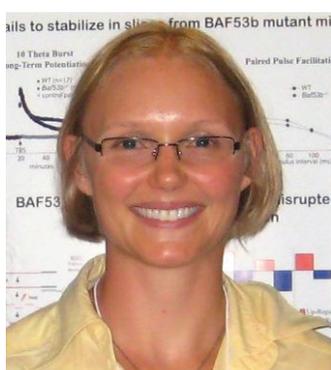
Melissa Warden

In November 2013 Dr. Melissa R. Warden will start her laboratory in the Department of Neurobiology and Behavior at Cornell University, where she will be Assistant Professor and Miriam M. Salpeter Fellow. Dr. Warden received her A.B. in Molecular Biology from Princeton University and her Ph.D. in Systems Neuroscience from the Massachusetts Institute of Technology, where she worked with Dr. Earl K. Miller and examined prefrontal neural encoding of multiple items in short-term memory. She then moved to Stanford University for her postdoctoral work with Dr. Karl Deisseroth, where she focused on cortical control of neuromodulatory systems in motivated behavior. Dr. Warden is the recipient of a 2012 Brain and Behavior Foundation NARSAD Young Investigator Grant, which is focused on communication between the prefrontal cortex and the dorsal raphe nucleus in depression-related behavior. Her research at Cornell will integrate neurophysiological, imaging, and cellular and molecular approaches to the understanding of neural circuits mediating reward, motivation, and learning in rodent models, and her lab will investigate both normal circuit function as well as dysfunction in psychiatric disease.



Annie Vogel-Ciernia

Annie's primary research focus in graduate school at the University of California, Irvine has been to understand the role of nucleosome remodeling in regulating gene expression required for long-term memory formation. Nucleosome remodeling is one of the three main epigenetic mechanisms by which chromatin structure is regulated in the service of controlling gene expression in a coordinate manner, ultimately to guide specific cell functions. Over the past two years, Annie has been working with Dr. Marcelo Wood on a project aimed at understanding the role of a neuron-specific component of the nBAF nucleosome remodeling



Poster Session I, Monday, December 09, 2013
Poster #M197: Differential Prefrontal Control of Brainstem Neuromodulatory Systems in Depression-Related Behavior

ACNP 2013 Travel Awardees

Christina Wierenga

Dr. Wierenga is an assistant professor and licensed clinical neuropsychologist in the Department of Psychiatry at the University of California San Diego, and she oversees the research program at the UCSD Eating Disorders Research and Treatment Program. She received her



doctorate in clinical psychology with a specialization in neuropsychology, neurorehabilitation, and clinical neuroscience from the University of Florida and completed an NIH postdoctoral fellowship at UCSD in biological psychiatry and neuroscience. Dr. Wierenga's research focuses on brain functioning in ill and recovered adolescents and adults with eating disorders and older adults at risk for dementia. She uses innovative functional neuroimaging and neuropsychological methods to examine the neurobiology of eating disorders and dementia risk. Her clinical practice has focused on children, adolescents, and adults with a wide range of psychological and neurological disorders. She sees patients in the eating disorders program for family based, individual, and group treatment. She is also a member of UCSD's Neuropsychological Associates where she conducts clinical neuropsychological evaluations of children, adolescents, and adults. Dr. Wierenga is actively involved in training graduate students, interns and postdoctoral fellows. In her free time she enjoys playing volleyball, listening to live music and traveling.

Poster Session III, Wednesday, December 11, 2013
Poster #W24: Adults Recovered from Anorexia Nervosa Show Altered Brain Response during Delayed Discounting in Fasted and Fed States

Victoria Wing

Vicky completed her postgraduate studies at Newcastle University in the United Kingdom, focusing on the behavioral pharmacology of nicotine, specifically the role of the endogenous cannabinoid system and its potential as a target for addiction pharmacotherapies. In her postdoctoral fellowship Vicky moved into clinical research with the aim of translating basic science findings into addiction and psychiatric pharmacotherapy development in humans. Vicky is currently an M.D



trainee on Imperial College London's Graduate Entry Medicine Course but maintains an affiliate scientist position at the Centre for Addiction and Mental Health, Toronto. Here she conducts human laboratory studies to examine the behavioral, cognitive and neurobiological factors underlying the high rates of addiction in psychiatric populations. Vicky is currently utilizing cutting-edge psychopharmacological, brain stimulation (e.g., rTMS) and neuroimaging (e.g., PET) techniques to investigate and treat co-morbid tobacco addiction and schizophrenia.

Poster Session I, Monday, December 09, 2013
Poster #M123: Measuring Smoking-Induced Extrastriatal Dopamine Release: A [11C]FLB-457 PET Study

Josh Woolley

Dr. Woolley is an Assistant Professor in Residence of Psychiatry at the San Francisco VA Medical Center and the University of California San Francisco (UCSF). He received his undergraduate degree in Biology at Brown University. Then, following one year as a Fulbright Scholar at the Karolinska Institute in Stockholm,



Sweden, Dr. Woolley completed his MD and Ph.D. and obtained his psychiatric residency from UCSF. Currently, he is the Director of the Bonding and Attunement in Neuropsychiatric Disorders (BAND) lab, the Associate Director of the San Francisco VA Psychosis Clinic, and the Assistant Director of the UCSF medical school introductory course on Psychiatry. Dr. Woolley's research is focused on developing novel therapeutic interventions for social deficits in multiple patient groups and using multiple techniques to explore the mechanisms of these deficits and treatments. He is currently investigating the role of the prosocial neuropeptide oxytocin in social dysfunction in schizophrenia and substance abuse using neuroimaging, behavioral, and psychophysiological techniques. In addition to his research activities, Dr. Woolley enjoys skiing and mountain biking. He is engaged to be married to Aoife O'Donovan, PhD, a leading researcher in the field of Psychoneuroimmunology.

Poster Session II, Tuesday, December 10, 2013
Poster #T233: Oxytocin and Facial Expressivity in Patients with Schizophrenia and Healthy Participants

ACNP 2013 Travel Awardees

Natalie Zahr

Natalie M. Zahr, Ph.D. is a research scientist at Stanford University and SRI International. Her graduate education in the basic sciences included the study of neuro- pharmacology, physiology, and anatomy. After she completed graduate training as an electrophysiologist, she began postdoctoral training as a magnetic



resonance imaging (MRI) scientist. Her work focuses on translational approaches using in vivo MR imaging and spectroscopy in studies of human alcoholics and rodent models of alcoholism with the goal of identifying mechanisms of alcohol effects on the brain. Her position allows her to explore emerging MR technologies and apply them to test relevant hypotheses. She also teaches courses (e.g., Human Anatomy and Neuroscience) at UC Berkeley Extension and enjoys sharing her knowledge and enthusiasm for learning with her students. Her interests include hosting parties (i.e., cooking enough to feed a small army), dancing, traveling, skiing, scuba diving, hiking, yoga, and trying out new activities (e.g., snow kiting and rock climbing) whenever possible.

Poster Session I, Monday, December 09, 2013
Poster #M170: In Vivo Diffusion Tensor Imaging Evidence for Reversible White Matter Microstructural Integrity Disruption with Binge but Not Chronic Ethanol Exposure

Gwyneth Zai

Dr. Zai is a fifth- and final-year psychiatry resident at The University of Toronto (U of T), working in the Thompson Centre at the Sunnybrook Health Sciences Centre with Dr. Peggy Richter, and in the Neurogenetics Section at the Centre for Addiction and Mental Health (CAMH) with Dr. James L. Kennedy. Prior to her



medical training, she obtained an Honours Bachelor of Science degree, specializing in immunology and human biology, at U of T. Moreover, She subsequently completed her Master's degree in neuropsychiatric genetics research in the genetics of obsessive-compulsive disorder (OCD) and schizophrenia through The Institute of Medical Science (IMS) at U of T, in addition to her Doctor of Medicine degree at U of T. Since then, she has been a psychiatry resident in the 5-year U of T psychiatry residency training program. Throughout her busy clinical and academic training over the past decade, she has continued to work in psychiatric genetic research. Recently, she has been accepted into a Ph.D. program in IMS at U of T. Her main clinical and research focus in psychiatry include the pharmacogenetics of OCD and schizophrenia.

Poster Session III, Wednesday, December 11, 2013
Poster #W73: Pharmacogenetics of Obsessive-Compulsive Disorder Candidate Genes and Antidepressant Response

ADAA 2013 Travel Awardees

Ebony Glover

Ebony Glover's training spans an array of techniques in mental health research – from using procedures in behavioral pharmacology and biochemistry to study basic fear mechanisms in rodents, to using psychophysiology and neuroimaging to characterize biomarkers of posttraumatic stress disorder (PTSD) in humans with high risk for trauma exposure. Glover received a B.A. in psychology from Spelman College in Atlanta, GA. She went on to complete her doctoral training in neuroscience at Emory University under the mentorship of Michael Davis. Her dissertation research, using rodent models of fear learning and memory to study treatments for PTSD, won the APA Dissertation Research Award and the NIMH Mental Health Research Dissertation Grant to Increase Diversity (R36). Currently, she is a postdoctoral fellow in the department of Psychiatry and Behavioral Sciences at Emory University School of Medicine under the mentorship of Kerry Ressler. Her current research focuses on understanding biological processes associated with increased PTSD risk in women.



Chad M. Sylvester

Chad M. Sylvester, M.D., Ph.D. is currently in his final year of clinical training, as a Child and Adolescent Psychiatry Chief Fellow at Washington University School of Medicine. Dr. Sylvester received his undergraduate degree from the University of Notre Dame in 2001, and he earned his M.D. and Ph.D. from Washington University in 2009. Dr. Sylvester's doctoral work in systems neuroscience focused on mechanisms of orienting spatial attention in humans using functional magnetic resonance imaging (fMRI). As a general psychiatry resident, he worked with several collaborators at Washington University and developed a set of novel hypotheses regarding changes in functional brain networks in children and adults with anxiety disorders. Dr. Sylvester currently has funding from the National Institutes of Mental Health (NIMH) and from the AACAP Pilot Research Award for Attention Disorders, supported by the Elaine Schlosser Lewis Fund. With this support he is studying changes in functional brain networks associated with attention in children with anxiety disorders, depression, and/or ADHD. His ultimate career research goal is to study the development of functional networks in children with and without mental illness in order to guide development of novel treatments that target aberrant networks, such as cognitive retraining techniques.



Past Travel Awardees who are now ACNP Members

1981

John Csernansky
Thomas Uhde
Rita Valentino

1982

Jay Baraban
Charles Nemeroff
Samuel Craig Risch

1983

Robert Innis
George Zubenko

1984

Bruce Lydiard
David Lewis
Paul Sanberg
Robert Swift

1985

Stephen Dager
Nicholas Goeders

1986

Pierre Blier
P. Jeffrey Conn
Richard Foltin
James Meador-Woodruff
Eric Nestler

1987

Charles France
Daniel Javitt

1988

Kathryn Cunningham
Maurizio Fava
Henry Kranzler
Julio Licinio
Robert Malenka
Allan Reiss

1989

Jonathan Javitch
Neal Swerdlow
Kathleen Brady

1990

James Kennedy
Elaine Peskind
Murray Stein
F. Xavier Castellanos

1991

Ted Abel
Elizabeth Abercrombie
Deborah Deas
Suzette Evans
Michael Owens
Ronald See

1992

Margit Burmeister
Mark George
Husseini Manji
Perry Renshaw
Mark von Zastrow

1993

Steve Negus
Sanjaya Saxena
Susan Sesack
Trisha Suppes

1994

Anissa Abi-Dargham
Harry June

1995

Katharine Phillips

1996

Jay Giedd
John Neumaier
Peg Nopoulos

1996

Daniel Pine
David Rosenberg
Jon-Kar Zubieta

1997

Eric L. Barker
David Feifel
Sarah H. Lisanby
Thomas Schlaepfer

1998

Vaishali Bakshi
Sabina Berretta
William Carlezon, Jr.
Linda Carpenter
Daniel Cowen
Andreas Meyer-
Lindenberg
Henry Kranzler

1999

Arthur Brody
E. Sherwood Brown
Michael De Bellis
Hossein Fatemi
Annette Fleckenstein
Jean Frazier
Jay Gingrich
Lisa Gold
Daniel Mathalon
Ann Olincy
Joseph Friedman
Helen Lavretsky
Susan Schultz
Michael Detke

2000

Caleb Adler
Yue Chen
Lynette Daws
Mark Frye
Tony George
Lawrence Kegeles
Janet Neisewander
Christine Marx
Marc Potenza
Jair Soares
Frank Tarazi
Ramin Parsey
Rajita Sinha

2001

Kiki Chang
Melissa DelBello
Igor Elman
Stan Floresco
Carl Hart
Scott Kollins
Robert McCullumsmith
Lisa Monteggia
Ramin Parsey
Steven Siegel
Philip Szeszko
Mar Sanchez

2002

Zubin Bhagwagar
Darin Dougherty
Graeme Mason
Kerry Ressler
David Steffens
Kent Hutchison
Carlos Bolanos-Guzman
James Fadel
R. Andrew Chambers
Fred Jarskog
Marlene Freeman
Pradeep Nathan

2003

Hilary Blumberg
Yogish Dwivedi
Jon Grant
Eric Youngstrom
Sanjay Matthew
Todd Lencz
Fang Liu
Ruth Lanius
James Swain

2004

Christine Barr
Carrie Bearden
Aysenil Belger
Nitin Gogtay
Ziad Nadas
Mani Pavuluri
Mary Phillips
Karen Szumlinski
Audrey Tyrka
Carrie Bearden
Larry Young
Paul Kenny
Christoph Correll
David Glahn
Zachary Rodd
Susan Powell
Ursula Bailer

2005

Elizabeth Binder
Rita Fuchs
Luan Phan
Victoria Risbrough
Gregory Light
Todd Gould
Arielle Stanford
Guido Frank
Mark Todtenkopf
George Papakostas
Daniel Dickstein
Jing Du

2006

Vince Calhoun
Bernard Le Foll
Gregory Light
Dost Ongur
Jagadeesh Rao
Katherine Burdick
Kimberly Stigler
Christopher Pittinger

2007

Gonzalo Laje
Paul Holtzheimer
Ariel Gildengers
Melanie Schwandt
Janson Tregellas
Falk Lohoff
Craig Powell
Ardesheer Talati
Michael Bloch
Nicole Avena
Vincenzo De Luca
Ilan Kerman
Scott Langenecker
Keri Martinowich

2008

Mohammed Milad
Consuelo Walls-Bass
Barry Setlow
Colleen McClung
Kevin Spencer
Jennifer Bartz
Erika Forbes
Daniel Mueller
Tiffany Greenwood

2009

Raymond Cho
Subroto Ghose
Maura Boldrini
Daniel Dickstein
Scott Russo
Atsushi Kamiya
Vikaas Sohal
Jeremy Veenstra-
Vanderweele
Joshua Roffman
Jared Young

2010

Ajilore Osula
Abraham Palmer
Amit Etkin
Michael Bruchas
Pamela De Rosse
Shawn McClintock
Armin Raznahan

2011

Garrett Stuber
Olivier Burton
Ming-Hu Han
Lorenzo Leggio

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