

ALICIA KOPLOWITZ ADVANCE TRAINING FELLOWSHIPS - 2019 CALL

Centre: Bellevue Hospital Center, NYU

Tutor: Prof. Francisco Xavier Castellanos, MD

Research Area:

- Please list and provide a brief explanation of the research projects that are currently being conducted in your department and in which the future fellows could take part in?

As one of only two independent departments of Child and Adolescent Psychiatry in the United States, the Bellevue/NYU Advanced Training Fellowship takes advantage of its varied research and clinical programs. Active research projects as of December 2018 are listed.

IMPLEMENTATION AND DISSEMINATION SCIENCE

Implementing Trauma Informed Treatment in the Juvenile Justice System

Principal Investigator: Christopher Branson, Ph.D.

Sponsor: National Institute of Mental Health K23

Assessing Trauma and Wellness of New Jersey Juvenile Justice Commission Staff

Principal Investigator: Christopher Branson, Ph.D.

Sponsor: Annie E. Casey Foundation

Center for Trauma Recovery and Juvenile Justice

Principal Investigator: Christopher Branson, Ph.D.

Sponsor: SAMHSA subcontract (UConn)

Improving the Value of Publicly Funded Mental Health Care

Principal Investigator: Molly Finnerty, M.D.

Sponsor: National Institute of Mental Health R01 subcontract (RAND)

Project PITCH: Psychiatric Integrated Treatment/Collaborative Health

Principal Investigator: Molly Finnerty, M.D.

Sponsor: Substance Abuse and Mental Health Services Administration subcontract (OHEL)

Improving Minority Health Through Monitoring of Disparities in Medicaid Care

Principal Investigator: Molly Finnerty, M.D.

Sponsor: National Institute of Minority Health and Health Disparities R01 subcontract (RAND)

Evidence Based Treatment Dissemination Center (EBTDC)

Principal Investigator: Kimberly Hoagwood, Ph.D.

Sponsor: NYS Office of Mental Health

Family Groups for Urban Youth with Disruptive Behavior

Principal Investigator: Kimberly Hoagwood, Ph.D.

Sponsor: National Institute of Mental Health R01 subcontract (NYU School of Social Work)

Clinic Technical Assistance Center (CTAC)

Principal Investigator: Kimberly Hoagwood, Ph.D.

Sponsor: New York State Office of Mental Health

Adult Technical Assistance Center (ATAC)

Principal Investigator: Kimberly Hoagwood, Ph.D.

Sponsor: New York State Office of Mental Health

Managed Care Technical Assistance Center (MCTAC)

Principal Investigator: Kimberly Hoagwood, Ph.D.

Sponsor: New York State Office of Mental Health

National Collaborative for Innovation in Quality Measurement: Implementing and Improving (NCINQ II)

Principal Investigator: Kimberly Hoagwood, Ph.D.

Sponsor: Agency for Healthcare Research and Quality (National Committee for Quality Assurance)

NEURODEVELOPMENTAL DISORDERS

Neuronal Correlates of Autistic Traits in ADHD and Autism

Principal Investigator: F. Xavier Castellanos, M.D

Sponsor: National Institute of Mental Health R01 subcontract (Child Mind Institute)

Neural Signatures of Outcome in Preschoolers with Autism

Principal Investigator: F. Xavier Castellanos, M.D

Sponsor: National Institute of Mental Health R01 subcontract (Child Mind Institute)

Early Life Exposure to Metal Mixtures and Neuroimaging of Internalizing Behaviors in Childhood

Principal Investigator: F. Xavier Castellanos, M.D

Sponsor: National Institute of Mental Health R01 subcontract (Mt. Sinai)

Impact of Circadian Misalignment on Energy Balance Regulation

Principal Investigator: F. Xavier Castellanos, M.D

Sponsor: National Institute of Health R01 subcontract (Columbia University)

Effect of Long-term Sleep Restriction on Energy Balance

Principal Investigator: F. Xavier Castellanos, M.D.

Sponsor: National Heart, Lung and Blood Institute R01 subcontract (Columbia University)

Examining Adolescent Outcomes of Severe Temper Outbursts in Childhood

Principal Investigator: F. Xavier Castellanos, M.D.

Sponsor: National Institute of Mental Health R15 subcontract (Fordham University)

Brain Plasticity Underlying Acquisition of New Organizational Skills in Children

Principal Investigator: F. Xavier Castellanos, M.D.

Sponsor: National Institute of Mental Health R61

Neurobehavioral Basis of Attention Bias Heterogeneity in Adolescent Anxiety

Principal Investigator: Amy Roy, Ph.D.

Sponsor: National Institute of Mental Health R56 Subcontract (Hunter College)

In utero Assessment of the Human Neural Connectome and Later Child Behavior

Principal Investigator: Moriah Thomason, Ph.D.

Sponsor: National Institute of Mental Health R01

Neurodevelopmental Pathways in Adolescent Health Risk Behavior

Principal Investigator: Moriah Thomason, Ph.D.

Sponsor: National Institute of Child Health and Human Development subcontract (UMichigan)

Evaluation of Organization Skills Training Program for Upper Elementary Students

Principal Investigator: Richard Gallagher, Ph.D.

Sponsor: Institute of Education Sciences subcontract (Children's Hospital of Philadelphia)

STRESS, TRAUMA and RESILIENCE

NYU Center for Child Welfare Practice Innovation

Principal Investigator: Glenn Saxe, M.D.

Sponsor: SAMHSA

Treatment of Development Trauma Disorders

Principal Investigator: Glenn Saxe, M.D.

Sponsor: SAMHSA subcontract (UConn)

EMOTIONAL BRAIN INSTITUTE (BASIC SCIENCE)

Maternal Influence over Prefrontal Cortex and Transition to Independence

Principal Investigator: Regina Sullivan, Ph.D.

Sponsor: National Institute of Mental Health R37

Neural Circuitry and Plasticity for Maternal Behavior

Co-Principal Investigator: Regina Sullivan, Ph.D.

Sponsor: National Institute of Child Health and Human Development R01

Cortical Processing

Principal Investigator: Donald Wilson, Ph.D.

Sponsor: National Institute of Health R01

Odor Perception, Recognition and Discrimination

Principal Investigator: Donald Wilson, Ph.D.

Sponsor: Givaudan UK Ltd.

Brain Circuits of Outcome-dependent vs. Habitual Avoidance

Principal Investigator: Chris Cain, Ph.D.

Sponsor: National Institute of Mental Health R01

Probing the function of hilar mossy cells in hippocampal circuits and dentate gyrus dependent Behaviors

Principal Investigator: Hannah Bernstein (Scharfman)

Sponsor: National Institute of Mental Health F30

OTHER RESEARCH

Metformin for Overweight and Obese Children and Adolescents with Bipolar Spectrum Disorders Treated with Second-generation Antipsychotics

Principal Investigator: Glenn Hirsch, M.D.

Sponsor: PCORI subcontract (Northwell)

NEST Training and Consultation (ASD NEST Support Project)

Principal Investigator: Sarah Kern, Ph.D.

Sponsor: NYC Department of Education (NYU Steinhardt School of Culture, Education and Human Development)

Expanding Trauma-Informed Care within New York Juvenile Detention

Principal Investigator: Carly Baetz, Ph.D./J.D.

Sponsor: SAMHSA

Beyond active research studies, Alicia Koplowitz Advanced Training Fellows also have access to unique archival datasets that continue to be a resource for original and impactful scientific contributions. The most remarkable of these is the 33-year follow-up of individuals diagnosed with attention-deficit/hyperactivity disorder at an average age of 8 years, the comparison individuals who were recruited during adolescence from the same communities, 270 of whom had brain-imaging scans at an average age of 41.^{1,2} These rich archival data include blinded clinician reports from multiple waves of longitudinal assessments, and have resulted in original observations, such as the novel discovery by a

prior Alicia Koplowitz Advanced Training Fellow that ADHD in childhood is associated with an increased risk of homelessness (Garcia-Murillo et al. (2016)).³

- In relation to those research projects, please specify the activities in which the fellows will be able to take part? (e.g., data collection, hypothesis formulation, data analyses, writing up papers, etc.)

The specific roles that Alicia Koplowitz Advanced Training Fellows can take vary depending on the study, the Fellow's background and the stage of the project. Certainly, all phases of research (e.g., data collection, hypothesis formulation, data analyses, and writing up results for publication) are available. Dr. Castellanos is available to link Alicia Koplowitz Advanced Training Fellows to specific project principal investigators, to assure a mutually beneficial result. Given the long lead time for obtaining approvals for participating in human subjects research, determining the preferred domain of research as early as possible is recommended. This approach has been successful in the past.⁴⁻¹²

- Please specify statistical support available to the fellows for the development of their research activity? (e.g., statistician input, attendance to statistical courses, skills meetings, etc.)

All Alicia Koplowitz Advanced Training Fellows are personally and directly tutored by Dr. Castellanos, who although not a statistician, is conversant in mainstream statistical methods. Thanks to the support of the Alicia Koplowitz Foundation, biostatistical support is available to the Advanced Training Fellows as needed, with full access to all major statistical packages, attendance at statistical courses, and specific trainings as required.

- How much of the fellows' working time will be dedicated to research activities?

The percent working time dedicated to research varies over the two-year duration of the Advanced Training Fellowship, but is expected to average 50%.

Clinical Area:

- Could you list the type of clinical placements the fellows could attend (e.g., generic outpatient services, inpatient units, specialist teams, etc.)?

Alicia Koplowitz Advanced Training Fellows can participate in clinical care of children and adolescents in specialized inpatient units (one unit specializes in young children, another on young adolescents, and a third on older adolescents; each has 15 beds); in the only Comprehensive Children's Emergency Psychiatry Program (emergency service) in the New York City area, which has up to 6 beds for intensive observation; in the Consultation-Liaison Service, in which children and adolescents with primary pediatric health needs are seen in consultation; and in the outpatient evaluation of children and adolescents in various clinics at the NYU Child Study Center.

- Could you describe the fellows' role in relation to participation in assessments and treatments in their clinical placements?

Alicia Koplowitz Advanced Training Fellows can gather clinical information in each of the above clinical settings, and then be part of the team process in which the attending physician and child and adolescent psychiatry fellows think through differential diagnoses and treatment planning that are appropriate for the patient and family.

- What are the requirements for psychiatrists and psychologist in order to be able to have a clinical role?

Psychiatrists and psychologists are not able to have direct or primary clinical roles in New York State because of licensing restrictions, but they are able to participate in the clinical management of complex patients.

- How much of the fellows' working time will be dedicated to clinical work?

Alicia Koplowitz Advanced Training Fellows will dedicate one to two days a week to participating in clinical work, on average.

Academic area:

- Will the fellows be able to join a specific academic programme? If so, could you briefly describe the structure of this programme?

The Alicia Koplowitz Advanced Training Fellows will be an integral part of all the educational programs provided to Child and Adolescent Psychiatry Fellows and Clinical Child Psychology Interns. They will also attend the weekly NYU Child Study Center Grand Rounds program and be included in the lunch discussions with the national and international presenters immediately following. They are also invited to attend a rich and varied program of scientific talks and presentations across the entire range of medical and psychological fields.

- Will the fellows be able to attend other training courses outside the specific academic programme (e.g., university courses, therapy workshops, etc.)?

Attendance at external courses is encouraged but not required. Many such courses are available in New York, including many at NYU.

- Please specify annual budget available to the fellow for training.

A minimum of US\$10,000 per Alicia Koplowitz Advanced Training Fellow is available for additional expenses required to optimize the Fellows' experiences. These funds can be used to offset additional

costs of statistical expertise or software, if required, to pay for research related expenses, such as additional measures, participant fees, or to attend additional scientific conferences, beyond the annual meeting of the American Academy of Child and Adolescent Psychiatry.

- [Please specify the clinical and research supervision offered to the fellow over the 2-years fellowship.](#)

All Alicia Koplowitz Advanced Training Fellows are individually supervised by tutor Castellanos on a weekly basis, in addition to supervision by other clinical and research faculty, as appropriate for each Fellow's program.

References and peer-reviewed papers (#3-12) published by Alicia Koplowitz
Advanced Training Fellows (**in BOLD**) from their work at NYU/Bellevue.

1. Klein RG, Mannuzza S, Olazagasti MA, et al. Clinical and functional outcome of childhood attention-deficit/hyperactivity disorder 33 years later. *Archives of General Psychiatry*. 2012;69(12):1295-1303.
2. Proal E, Reiss PT, Klein RG, et al. Brain gray matter deficits at 33-year follow-up in adults with attention-deficit/hyperactivity disorder established in childhood. *Archives of General Psychiatry*. 2011;68(11):1122-1134.
3. **Garcia Murillo L**, Ramos-Olazagasti MA, Mannuzza S, Castellanos FX, Klein RG. Childhood Attention-Deficit/Hyperactivity Disorder and Homelessness: A 33-Year Follow-Up Study. *Journal of the American Academy of Child and Adolescent Psychiatry*. 2016;55(11):931-936.
4. **Garcia Murillo L**, Cortese S, Anderson D, Di Martino A, Castellanos FX. Locomotor activity measures in the diagnosis of attention deficit hyperactivity disorder: Meta-analyses and new findings. *Journal of Neuroscience Methods*. 2015;252:14-26.
5. **Garcia Murillo L**, Ramos-Olazagasti MA, Klein RG, Mannuzza S, Castellanos FX. Correlates of nicotine dependence in men with childhood attention-deficit/hyperactivity disorder: a 33-year follow-up. *Attention Deficit and Hyperactivity Disorders*. 2018.
6. Linares LO, **Martinez-Martin N**, Castellanos FX. Stimulant and atypical antipsychotic medications for children placed in foster homes. *PLoS ONE*. 2013;8(1):e54152.
7. **Mairena MA**, Di Martino A, **Dominguez-Martin C**, et al. Low frequency oscillations of response time explain parent ratings of inattention and hyperactivity/impulsivity. *European Child & Adolescent Psychiatry*. 2012;21(2):101-109.
8. **Nieto RG**, Castellanos FX. A meta-analysis of neuropsychological functioning in patients with early onset schizophrenia and pediatric bipolar disorder. *Journal of Clinical Child and Adolescent Psychology*. 2011;40(2):266-280.
9. **Serrano-Villar M**, Calzada EJ. Ethnic identity: Evidence of protective effects for young, Latino children. *Journal of Applied Developmental Psychology*. 2016;42:21-30.
10. **Serrano-Villar M**, Huang KY, Calzada EJ. Social Support, Parenting, and Social Emotional Development in Young Mexican and Dominican American Children. *Child Psychiatry and Human Development*. 2017;48(4):597-609.
11. **Alvarez-Fernandez S**, Brown HR, Zhao Y, et al. Perceived social support in adults with autism spectrum disorder and attention-deficit/hyperactivity disorder. *Autism Research*. 2017;10(5):866-877.
12. **Gomez-Guerrero L**, **Martin-Dominguez C**, **Mairena MA**, et al. Response-time variability is related to parent ratings of inattention, hyperactivity, and executive function. *Journal of Attention Disorders*. 2011;15(7):572-582.