The Duke-UNC NeuroCare Partnership
Kenan-Biddle Partnership Grant Application
October 11, 2013

Proposed By:
Minali Nigam, Class of 2015, Duke University
Lillian Sun, Class of 2015, Duke University
Lisa Guo, Class of 2016, Duke University
Rithi Chandy, Class of 2016, Duke University
Eddie Liu, Class of 2015, Duke University
Frank Lee, Class of 2015, Duke University
Katie Jordan, Class of 2015, University of North Carolina at Chapel Hill
Sakib Huq, Class of 2014, University of North Carolina at Chapel Hill
Sainath Asokan, Class of 2016, University of North Carolina at Chapel Hill
Akash Patlolla, Class of 2016, University of North Carolina at Chapel Hill
Kaity Lohrei, Class of 2016, University of North Carolina at Chapel Hill

With Guidance and Support from Faculty mentors:
Christina Williams, Ph.D., Professor, Psychology and NeuroScience
Duke University

Kelly Giovanello, Ph.D., Associate Professor, Cognitive Psychology
University of North Carolina, Chapel Hill
Introduction and Mission

There are over 600 neurological disorders that affect the human nervous system, many with limited treatment options. Neurological disorders include, but are not limited to, epilepsy, stroke, Alzheimer’s disease, Parkinson’s disease, and traumatic brain injuries. As the number of people affected by such disorders increases with little corresponding increases in support, there is a dire need for an organization like NeuroCare to step in. NeuroCare strives to spread awareness about neurological disorders and preventative measures, to promote funding in neurological research, and to provide a support system for people who have disorders of the nervous system. NeuroCare gives undergraduate students at both UNC and Duke opportunities to participate in knowledge-based service with a targeted patient population and their families.

NeuroCare takes a three-pronged approach to assisting those with neurological disorders: Awareness, Advocacy, and Action. The mission of NeuroCare is to raise awareness by educating the community about neurological disorders and their prevention, advocate and fundraise for neurological research, and help build a support system for affected populations. The following details the target audience, goal, and means by which NeuroCare carries out its vision:

Target Audience: Individuals and their families affected by neurological disorders; the North Carolina community; undergraduate students at Duke University and the University of North Carolina at Chapel Hill

Goal: To educate the community about neurological disorders and their prevention, promote research for cures, and support those affected by neurological disorders

Means: Teaching about the brain and brain injury prevention at local schools, holding fundraisers for organizations that promote neurological research, hosting interactive events for children and adults affected by neurological disorders, meeting and interacting with patients to provide a “buddy support” system through NeuroBuddies

Rationale

NeuroCare is an organization dedicated to helping people affected by neurological disorders. NeuroCare focuses on service and seeks opportunities for students to interact with patients and families in the greater community. While many academic organizations are focused on directing students through the field of neuroscience and many service organizations enable students to serve the community in an educational medical setting, there has been little opportunity for students to learn about neurological disorders from a first-person perspective. NeuroCare strives to fuse neuroscience with service to those in need, allowing students to gain a broader perspective of not only the field of neuroscience, but also the local community. Through our work in the Duke, UNC, and broader Triangle community,
NeuroCare aims to reach out to a wide audience, encompassing the greater North Carolinian community, as well as students who are not only interested in neuroscience, but who also want to make a positive impact on the lives of those afflicted by neurological disorders. We believe NeuroCare provides students with an invaluable learning experience while providing a great service to those in need.

**Benefits:**
- **Empower** patients and family members affected by neurological disorders by giving support and individualized attention by providing companionship
- **Engage** students to serve the community in meaningful and impactful way (Ex: social events with kids confined to wheelchairs, playing kickball with adolescents suffering from psychiatric disorders, one-on-one pairs with elderly patients with mental illnesses, etc.)
- **Learn** about the challenges associated with living with a neurological disorder
- **Educate** the public about neurological disorders on a institutional, local, and regional level
- **Advocate** for members of the community who feel impaired or helpless
- **Dispel** stigmas against people with mental illnesses
- **Collaborate** with other student organizations to help spread awareness at schools and the community
- **Develop** leadership skills and strong values among students and participants

**Evaluation Plan:**
Duke-UNC NeuroCare will assess our activities by:
- Ask for NeuroCare members to share their feedback, experiences, and observations
- Obtain constructive criticism from advisors
- Distribute surveys to collaborators to assess success of events

**Proposed Activities, Expected Products, and Presentations**
With support from the Kenan Biddle Grant, in the 2013 school year, NeuroCare was able to:
- Launch a UNC chapter
- Host 20 events across 2 campuses and collaborate with 16 different organizations
- Hold Traumatic Brain Injury Disorder and Parkinson’s Disease discussion panels open to the general public
- Start NeuroBuddies at the Duke chapter, a program facilitating one on one interaction with a NeuroCare member and a respective “buddy” with a neurological disorder
- Expand NeuroCare membership to 325 members at Duke and 120 members at UNC
- Increase awareness to reduce stigmatization of neurological disorders and interact with patients and their families in the Triangle Area
In addition to our ongoing projects, in the 2014 school year, NeuroCare hopes to:

- Expand NeuroBuddies to the UNC campus
- Increase emphasis on Advocacy Events to raise funding towards neurological research (5K Fundraiser Event, Duke vs. UNC $1 March Madness Bracket Competition for Charity, etc.)
- Have a student-led disorder discussion panel (in addition to disorder panels conducted by researchers, physicians, and patients)
- Host speaker events across both campuses
- Collaborate with more medical service-based organizations in the Triangle Area

Collaborators

- Active Minds
- Central Regional Hospital
- Bridge II Sports
- Carolina Neuroscience Club
- Duke & UNC Counseling and Psychological Services (CAPS)
- Duke Psychiatric Department
- Duke Institute for Brain Sciences (DIBS)
- Duke Neuroscience Majors Union (NMU)
- Durham Academy
- E.K. Powe Elementary School
- Mary Scroggs Elementary School
- ReThink Psychiatric Illness
- To Write Love on Her Arms (TWLOHA)
- Triangle Aphasia Project
- UNC Children’s Hospital
- UNC Department of Physical Medicine & Rehabilitation
The Duke & UNC NeuroCare Events for the 2013 Fall Semester are listed below. We will hold similar and new events (listed above), and funding will be needed to support all these events.

**Awareness Events**

**October 10- Depression Screening Day**

*UNC NeuroCare Collaboration Event*

*NeuroCare will be working with the Psychiatry Department for National Depression Screening Day. Members will set up a booth in the Bryan Center and talk about available psychiatric facilities, hand out paper and online depression screening tests, and give other information.

**October 17- NC Museum of Life & Sciences AfterHours- BRAINS**

*NeuroCare will be hosting a booth entitled "Brain Mythbusters" to debunk all the myths associated with the brain and neurological disorders. Our interactive activities will be geared towards the adult population.

**November 25- Brain Day at Durham Academy**

*Teaching about the nervous system & brain injury prevention to elementary school students at Durham Academy

**December 1- Brain Tumor Discussion Panel**

The Brain Tumor Discussion Panel will consist of patients, physicians, and family members; learn about brain tumors from medical & personal perspectives; open for general student body

**Advocacy Events**

**Disorder Presentations**

*Individual members can choose to give a 10-15 minute presentation about a disorder of their interest for each meeting

**November 11 from 2:00 pm- 6:00 pm**

At the Rethink: Psychiatric Illness Training, students and community members break away from societal stigma to learn the basics about mental illness, become aware of the statistics and prevalence of mental illnesses in our state, and understand the specific actions we can take to act as advocates.
Action Events

All Semester- NeuroBuddies (Duke Only in the Fall; Expand to UNC in the Spring)

*Program for NeuroCare members to partner one-on-one for an hour per week with patients who have neurological disorders, including Parkinson's, ALS, stroke, and traumatic brain injury. Number of buddies are limited.

September 14 and October 26 from 9:30 am- 11:30 am- Kickball & Basketball with Psychiatric Disordered Patients at Central Regional Hospital

*UNC NeuroCare Collaboration Event

*Playing kickball with psychiatric disordered adolescents at Central Regional Hospital. Open to 6 NeuroCare Members from each school

November 1- UNC Pediatric Playroom

*Arts & Crafts with children at the UNC Hospital Pediatric Playroom
# Detailed Budget Plan

<table>
<thead>
<tr>
<th>Proposed Activity</th>
<th>Expense</th>
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<tbody>
<tr>
<td>Speaker Events (across both campuses)</td>
<td>$1000</td>
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<tr>
<td>Disorder Discussion Panels</td>
<td>$1000</td>
</tr>
<tr>
<td>-student led panels</td>
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<tr>
<td>-physicians, researchers, therapists; etc.</td>
<td></td>
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<tr>
<td>-Ex. Brain Tumors, Parkinson’s; etc.</td>
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<tr>
<td>NeuroBuddies</td>
<td>$1500</td>
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<tr>
<td>-Transportation Reimbursement (members traveling to meet buddies)</td>
<td></td>
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<tr>
<td>-Social Night Events with buddies</td>
<td></td>
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<tr>
<td>-Launch of UNC NeuroBuddies</td>
<td></td>
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<tr>
<td>Educational resources/Arts &amp; Crafts</td>
<td>$1000</td>
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<tr>
<td>-brain models, virtual neurological disorder stimulations, activity booklets</td>
<td></td>
</tr>
<tr>
<td>Transportation Costs</td>
<td>$500</td>
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<tr>
<td>-Member reimbursement to and from events</td>
<td></td>
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<tr>
<td>Advertising Costs</td>
<td>$500</td>
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<tr>
<td>-printing surveys, flyers, stress brains, banners; etc.</td>
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<tr>
<td>Advocacy Events</td>
<td>$1000</td>
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<tr>
<td>-5K fundraiser</td>
<td></td>
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<tr>
<td>-March Madness Tournament Bracket</td>
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| Total expense expected for all events in 2014                                      | $6,500.00 |

# Budget Summary

<table>
<thead>
<tr>
<th>Expected total expense for 2014</th>
<th>$6,500.00</th>
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<tbody>
<tr>
<td>Kenan-Biddle Grant request</td>
<td>$5000.00</td>
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</table>
**Individual Qualifications**

**Minali Nigam** is a junior at Duke University. She is pursuing a major in Psychology, with a minor in Women’s Studies and a minor in Speech and Hearing Sciences from the University of North Carolina. Inspired by the writings of a Duke Medical student who had Pontine Stroke, Minali decided to start NeuroCare in the fall of her freshman year. Due to the support and encouragement that NeuroCare has received on the Duke campus, Minali helped launch the UNC chapter of NeuroCare this past spring. Minali is currently a certified Parent Educator through Parents As Teachers, a program that assesses developmental skills for children between the ages of 0-3 years. She is working with Dr. Geraldine Dawson at the Center for Developmental Epidemiology, helping run a cord blood study to consider a treatment plan for children with autism. She enjoys teaching exercise classes at Duke and singing a capella with UNC Samaa. She is excited about the continued collaboration between Duke and UNC and looks forward to future events with both NeuroCare chapters.

**Lillian Sun** is a junior at Duke University. She is pursuing a major in Biology with a concentration in Biochemistry, and a minor in Neuroscience. Lillian helped to start NeuroCare as a freshman, because of her passion for service and interest in the field of neuroscience. Within the club, Lillian hopes to give NeuroCare a stronger voice on both Duke and UNC campuses by planning large, joint-university events. She feels that the extensive collaboration between the two universities will help NeuroCare to not only be more enriching for undergraduates, but also more influential to the individuals affected by neurological disorders. In addition to helping to lead NeuroCare, Lillian is also the President of Duke Big Brothers Big Sisters, an organization that matches college students to at-risk children in positive, mentoring relationships. She works closely with Big Brothers Big Sisters of the Triangle and is a Big Sister (mentor) herself. She also is volunteering as a research assistant in a Duke Pharmacology and Cancer Biology. Lillian hopes to continue to serve others by pursuing a profession in the healthcare.

**Lisa Guo** is a sophomore at Duke University. She is pursuing a major in Biology, with a minor in Sociology and Environmental Science and Policy. Lisa joined NeuroCare her freshman year with an interest in the intersection of science and society. She finds NeuroCare’s emphasis on the role of the community and social relationships on health and the experience of disease especially compelling. It is precisely because of this importance of community that she is excited to be able to continue to develop the relationship between Duke and UNC. Lisa is currently a research intern in Dr. Murphy’s Epigenetics Research Laboratory, studying the influence of the environment on gametic epigenetic reprogramming. She also enjoys working with children, both through Duke’s FEMMES program, which organizes afterschool activities for girls to encourage interest in math, engineering and science, and Duke Hospital’s Kidz Need Hugz program.

**Rithi Chandy** is a sophomore at Duke University. He is on the pre-med track and is pursuing a major in Neuroscience, as well as a double minor in Psychology and Music. Rithi is fascinated by neurological
disorders and is intrigued by the effects of music on the brain. Rithi is working as a research assistant for conative neuroscience under the guidance of Dr. Alison Adcock, helping to run schizophrenia subjects on studies that aim to elucidate the neural pathways associated with motivation and reward and how they are affected by schizophrenia. In addition to his involvement in NeuroCare, Rithi serves on the executive board of the Duke chapter of the Minority Association for Pre-Med Students, as well as for Duke University Blue Buddies, a service organization that benefits the children and families at the Ronald McDonald House of Durham. In the future, Rithi plans to practice as a neurosurgeon while further exploring the possibilities of treating patients with neurological disorders with music therapy.

**Eddie Liu** is a junior at Duke University. He is pursuing a double major in Psychology and Neuroscience. He plans to pursue a medical career as a psychiatrist. He is passionate about and fascinated by an extensive variety of brain-related disorders. In addition to NeuroCare, he is also involved with To Write Love On Her Arms, a mental illness awareness club. Eddie is driven to help others and volunteers as a Duke Ambassador under the Pre-Health Volunteering Program as well as at Central Regional Hospital. Eddie is also interested in scientific research that ultimately helps others. He is doing a research independent study in Professor Timothy Strauman’s psychology lab and working with Dr. Holly Lisanby’s psychiatric lab on combining TMS and therapy to treat clinical depression. As part of NeuroCare, Eddie is excited to continue making real differences in the community regarding neurological awareness, treatment, and research.

**Frank Lee** is a sophomore primarily concerned with the issue of mental disorders and its impact on medicine. His highest priorities include the safety, health, and wellness of those around him. Providing care for other people is his highest calling. He enjoys working in the laboratory studying the neuroscience of attention and perception, and is being trained to be an emergency medical technician this semester. He also enjoys singing with the Duke Chapel Choir and with Duke’s Christian a cappella group, Something Borrowed Something Blue.

**Katie Jordan** is a junior at the University of North Carolina at Chapel Hill. She is on a pre-med track majoring in Biology and minoring in Chemistry at Chapel Hill while also pursuing a minor in Neuroscience from Duke. Throughout high school, Katie spent every summer as a counselor at a summer camp designed for children ages 3-21 with severe mental and physical disabilities where she got a first hand look at what it’s like for both patients and families dealing with neurological disorders. This past summer, she also got the chance to observe patients with many types of diseases, both neurological and otherwise, while shadowing a team of doctors at a hospital in Cape Town, South Africa. At Chapel Hill, she’s taken over the role of President of the UNC chapter of NeuroCare and has been working with both UNC and Duke members to start up the UNC chapter and make NeuroCare a sustainable organization at UNC.

**Sakib Huq** is a Senior from Pittsburgh, PA serving as Secretary of NeuroCare. He is studying Biology and Business Administration at UNC and is planning for a career in healthcare. He is thrilled by NeuroCare’s potential to grow at UNC and passionate about its mission to help those affected by neurological disorders, to spread awareness about these disorders, and to promote neurological research. Sakib also serves as a research assistant in the Kash lab at UNC where he explores his interests in mapping the neural circuitry and potential therapeutic targets involved in several neurological disorders.
Sakib is active in several groups on campus, including NeuroCare, the Jon Curtis Student Enrichment Fund, Sigma Phi Society, and Corpore Sano, a new undergraduate medical publication at UNC.

**Sainath Asokan** is a sophomore at the University of North Carolina at Chapel Hill, pursuing a major in Biostatistics (Public Health) with minors in Chemistry and Mathematics. As Vice President of the UNC NeuroCare organization, he is excited to collaborate with Duke on various student-organized events that will help promote awareness and research for neurological disorders. He is an avid undergraduate researcher in two laboratories at the UNC School of Medicine Departments of Pathology/Laboratory Medicine and Biochemistry/Biophysics. Driven by his interest in scientific writing, he serves as Senior E-publishing Editor on the International Editorial Board for the Triple Helix Journal as well as a staff writer for Carolina Scientific, UNC’s undergraduate research journal. In addition, he enjoys taking medical mission trips to Honduras/Panama as a part of Global Medical Brigades, volunteering at UNC Hospitals, and shadowing physician/surgeons of varying specialties in the Raleigh/Durham area. A few of his other hobbies include singing a cappella with the UNC Samaa team and playing piano. On the pre-medical track, he aspires to one day become an orthopedic or neurosurgeon that not only practices medicine but also teaches at an academic university.

**Akash Patlolla** is a sophomore at the University of North Carolina at Chapel Hill from Morrisville, NC. He is pursuing a degree in Nutrition at the Gillings School of Public Health, and is on a pre-medicine track. He is very interested in both research and medicine, and is interested in joining an MD/Ph.D program after his undergraduate studies. He performed research during the summer of his senior year of high school under Dr. Stefan Franzen at NC State University in the field of biochemistry, and continues to do research at UNC under Dr. Greg Matera in the biology department. The lab’s research is predicated on understanding the etiology of Spinal Muscular Atrophy, and Akash’s project centers on comparing mutations in *Drosophila Melanogaster* to patient mutations in humans in order to develop *Drosophila* as a model organism to study the disorder. He is also involved in a number of service organizations, such as GlobeMed and The Red Cross Club, which promote worldwide health through service, fundraising, advocacy.

**Kaity Lohrei** is a junior at the University of North Carolina at Chapel Hill. She is pursuing a degree in Health Policy and Management at the UNC Gillings School of Global Public Health. In 2010, Kaity created *Battlin' for Bob*, an annual event aimed at raising awareness of brain cancer and raising funds for the Preston Robert Tisch Brain Tumor Center at Duke University. She organizes this event in memory of her father, who passed away in September 2009 from brain cancer. Kaity is working as a lab assistant in Dr. Ryan Miller’s lab in the Department of Pathology researching GBM brain tumors. She also works as a research assistant for Dr. Ashley Skinner in the Department of Pediatrics at UNC.
October 10, 2013

To the Members of the Kenan-Biddle Grant Selection Committee,

We, Drs. Williams and Giovanello, are writing in enthusiastic support of Neurocare’s application for a Kenan-Biddle Grant. Dr. Williams has been the mentor and sponsor of this student initiated group since its inception in 2011, and Dr. Giovanello joined the team in 2012 to support the extension of this program to the University of North Carolina, Chapel Hill. This organization, which is dedicated to helping people with neurological disorders, was put together by an amazing group of young students headed by Minali Nigam and Lillian Sun, both first year students in 2011. Since its inception, NeuroCare has provided education about brain injuries to groups of elementary school students in Durham, has worked in a number of settings with brain injured individuals and patients with degenerative brain diseases and has provided education and advocacy at Duke and in Durham. With this grant, they hope to be able to reach out more broadly to the North Carolina community. This group is a wonderful combination of scholarship about brain trauma and its consequences, education about the experiences of brain injured individuals, community engagement, and service. We support their efforts fully and will help these students in a variety of different ways to enhance their experiences and to aid their engagement with Duke and UNC students, faculty and the entire Triangle community.

We will continue to aid and support this group by helping them access resources on and off campus that would help them carry out their vision. For example, Dr. Williams has helped NeuroCare connect with the Duke Institute for Brain Sciences. This allowed the group to participate in the National Brain Awareness Week and to access model brains, sheep brains and other Neuroscience demonstration equipment to use in the educational outreach activities. Additionally, Dr. Giovanello has helped NeuroCare connect with the Carolina (Undergraduate) Neuroscience Club, and together the students have held joint meetings and outreach activities. We will continue to provide our scholarly expertise in brain and psychological science to all the members of NeuroCare and ensure that the information they are providing is both accurate and engaging. We also expect to continue to provide professional advice about how to interact with people with brain disorders, how to understand their capabilities, and how to be sensitive to their needs.

Where we feel we may be most helpful is in getting these students in contact with our colleagues at UNC and Duke who do research on and treat patients with brain disorders. Both of us have connections with brain scientists and practitioners in Arts and Sciences and within our respective Medical Centers. Our expectation is that our mentorship role is two-fold. We hope to educate NeuroCare members about neuroscience, brain trauma, neurodegenerative disorders and treatment. We also expect NeuroCare members to use their knowledge to promote public awareness both on and off campus and to better support and care for patients with brain damage.

We are both committed to getting the UNC-Duke community to work together on these programs and projects and we believe that this grant will greatly aid this inter-school activity which has both a public engagement and education component.
We are pleased to offer our full support and look forward to NeuroCare’s contributions to our communities.

Sincerely,

Christina L. Williams, Ph.D.
Professor
Area Head-Systems and Integrative Neuroscience
Director-Undergraduate Neuroscience Major
Department of Psychology & Neuroscience
Duke University
GSRB-II – Box 90150
Durham, NC, 22208

Kelly S. Giovanello, Ph.D.
Associate Professor
Department of Psychology and
Biomedical Research Imaging Center
The University of North Carolina
Davie Hall 341A, CB#3270
Chapel Hill, NC 27599-3270
Christina L. Williams

**Position:**  
Professor of Psychology and Neuroscience  
Area Head: Systems and Integrative Neuroscience  
Director: Undergraduate Major in Neuroscience  
Duke University

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Phone: 919-681-7005  
Fax: 919-660-5798  
Email: williams@psych.duke.edu

Website: http://fds.duke.edu/db/aas/pn/faculty/christina.williams

**Education**

1979-1981  
The Johns Hopkins University, *Postdoctoral Fellow in Psychology, Psychiatry and Neurochemistry*

1980  
Rutgers University, Institute of Animal Behavior, Newark, NJ, *Ph.D. in Biopsychology*

1975  
Williams College, Williamstown, MA, *BA (cum laude with honors) in Biology and Psychology*

**Positions and Employment**

1981-1988  
Assistant Professor, Department of Psychology, Barnard College, Columbia University

1988-1993  
Associate Professor, Department of Psychology, Barnard College, Columbia University

1990 fall  
Visiting Scientist - MIT (Richard Wurtman Laboratory)

1991 spring  
Visiting Professor - Department of Psychology, The Johns Hopkins University

1991-1993  
Chair, Department of Psychology, Barnard College, Columbia University

1994-2001  
Associate Professor, Department of Psychology: Experimental, Duke University

1997-2006  
Chair, Department of Psychological and Brain Sciences, Duke University

2001  
Visiting Scientist – Rockefeller University (Bruce McEwen Laboratory)

2002  
Visiting Scientist – Laboratory of Neuromodulation and Cognitive Processes, University P. & M. Curie.

2002-2004  
Adjunct Professor, Rockefeller University

1994-  
Adjunct Professor, Integrated Toxicology Program, Duke University

2001-  
Professor, Department of Psychology and Neuroscience, Duke University

2007-  
Area Head, Program in Systems and Integrative Neuroscience, Duke University

2009-  
Director of Undergraduate Studies, Program in Neuroscience, Duke University

**Professional Membership and Service to Societies**

1975-  
Fellow, American Psychological Association  
(Div 6); Secretary 1985-1987; Program chair 1996, 2008

1975-  
Fellow, Society for Developmental Psychobiology  
Board Member 1990-1996; Secretary 1990-1995; Chair of Advisor Board 2006-2008  

1975-  
Member, Society for Neuroscience  
Finance Committee 2004-2010

1975-  
Member Eastern Psychological Association

1975-  
Member Sigma Xi

1981-  
Member New York Academy of Science
1981- Member American Association Advancement of Science
1997- Member, Society for Behavioral Neuroendocrinology
       Advisory Board 2004-2006; Program Committee 2003-2006
2006- Fellow, Association for Psychological Science

Editorial Boards/Reviewing

1994-1999  Editorial Board Hormones and Behavior
1999     Guest Editor: Special issue of Hormones and Behavior: Hormones and Cognition
2002     Chair: External Review Committee Department of Psychology, College of William and Mary
2004     Chair: External Review Committee Department of Psychology, Williams College
2009     Chair: External Review Committee Department of Psychology, University of Delaware
2006-2010 Associate Editor, Brain Research, Cognitive and Behavioral Neuroscience Section
2008     Guest Editor: Special issue of Brain Research: Brain, Genes and Nutrition
2011-     Senior Editor, Brain Research, Cognitive and Computational Neuroscience Section

Honors

1975     Elected to Phi Beta Kappa, Sigma Xi,
1985-1988 NIH New Investigator Research Award, NS 20671,
1999-     Trustee; Secretary Treasurer James McKeen Cattell Sabbatical Award for Psychologists
          o Oversee $2,000,000+ budget, organize annual application review and
            trustee meeting, pay-out to 2-6 award winners ($35,000/award)
2000     James Stellar Lectureship, University of Pennsylvania,
2003-2005 Member: Egg Nutrition Board
2003-2007 Member, Neuroendocrinology, Neuroimmunology and Behavior Study Section (NIH)
2006     Member, Special Review Panel for RFA-Centers of Excellent in Cognitive Neuroscience (NIH)
2005-2007 Chair: Neuroendocrinology, Neuroimmunology and Behavior Study Section (NIH)
2008     Chair: Special Emphasis Panel (NIH)
2009     Challenge Grant Reviewer
2010     Chair: Special Emphasis Panel (NIH)
          o ZRG1 IFCN-C (03): Special Emphasis Panel: Neuroendocrinology and Fetal
            Alcohol.
          o ZRG1 IFCN-C (02): Special Emphasis Panel: Memory, Stress, Pain and
            Alcohol.
2011     David and Janet Vaughan Brooks Distinguished Teaching Award, Duke University

Research Support

       of Neurological and Communicative Disorders and Stoke. Small Grant awarded to Barnard College, $50,000
direct costs.

1985-1990 Principal Investigator, “Origins of Sex Differences in Reproductive Behavior in the Female”
       National Institute of Neurological and Communicative Disorders and Stroke New Investigator Grant
       grant awarded to Barnard College, $528,446 total costs.

       National Institute of Aging Program Project “Aging of Brain: Effects of Perinatal Choline Exposure”
       grant awarded to Duke University, $2,561,540 total costs.

1997-1998 Principal Investigator, Anonymous donation for the support of “Cognitive Neuroscience & Aging
       of Brain: Effects of Perinatal Choline Exposure” -- $60,000 total costs.
2001-2004 Principle Investigator “Effects of Dietary Phosphocholines on Cognitive Function” Eridania Begin Say America $100,000 total costs.

2000-2002 co Principle Investigator with Provost Peter Lange “New facilities for Behavioral Neuroscience and Genomics Research” PAR-99-066 $2,000,000 total costs.


2004-2008 NRSA postdoctoral training fellowship Dr. Melissa Glenn “Choline and affective development” grant awarded to Duke University, $196,264 total costs.

2008-2012 coPI with Dr. Krzysztof Blusztajn NIH RO1“Juvenile trophic factors for the prevention and treatment of hippocampal aging” $1,214,875 total costs.

2012 (submitted to NIH) Principle Investigator “Choline and hippocampal plasticity” $1,934,023.00 total costs, under review.

Teaching

Undergraduate
Introduction to the biological basis of behavior
Behavioral neuroendocrinology
Developmental neuroscience and behavior
Males and females: The biological origins of sex differences in brain and behavior

Graduate
Foundations of behavioral and computational neuroscience
Neuroendocrinology and cognition
Neurobiology of cognitive aging

Recent Invited Talks and Colloquia

2012 Neuroscience Graduate Program, Vanderbilt University “Hippocampal Plasticity and Cognitive Function: Focus on Choline as an Essential Nutrient”. (September 19)

2012 “Brain Awareness Week Public Lecture: Food for Thought: Maternal Diet and Memory Enhancement” Stedmen Nutrition Center, Durham, NC, (March 8)

2011 Wake Forest School of Medicine, Department of Radiation Oncology “Hippocampal plasticity and cognitive function: exercise and nutrition”, March 24.


2010 Sexuality studies and the Kenan Institute for Ethics, Duke University – Invited Speaker in symposium on gender, sex, and sports. Tuesday April 20th, 3:30-5:00 in Perkins Library Breedlove Rare Book Room.

2009 Lectureship supported by the Taiwan National Science Council which included talks at Chang-Gung University Institute of Biomedical Sciences “Prenatal Choline Availability Alters Risk/Resilience to Neural Assaults”; National Taiwan University “Food for Thought: Prenatal Choline Supplementation”; National Chengchi UniversityPrenatal Nutrition and Hippocampal Plasticity: Focus on Choline as an Essential Nutrient”.


2008 Nathan Shock Center’s Workshop on the Neurobiology of Cognitive Aging, University of Michigan, Ann Arbor, MI. Invited speaker “Early developmental origins of cognitive aging: Prenatal diet modulates risk and resilience.”


2006 Smith College, Northampton, MA Neuroscience Program Guest speaker to commemorate the 20th anniversary of the Neuroscience Program: “Neuroendocrinology of Sex Differences in Cognition”.

2006 Center for Developmental Science, Chapel Hill, North Carolina Invited Speaker: “Food for thought: Prenatal choline availability, hippocampal development and cognitive aging”.

Publications

Kristal MB & Williams CL (1973) The effects of strain, reproductive condition, and strain of placenta donor on placentophagia in nonpregnant mice. Physiol Psychol 1, 354-356. (as an undergraduate)

McGill T E, Albelda SM, Bible HH, & Williams CL (1976). Inhibition of the ejaculatory reflex in B6D2F-sub-1 mice by testosterone propionate: Behav Biol, 16, 373-378. (as an undergraduate)


Meck WH, Smith RA, & Williams CL (1989) Organizational changes in cholinergic activity and enhanced visuospatial memory as a function of choline administered prenatally or postnatally or both. Behav Neurosci, 103, 118-146.


Pleil KE, Penner MR, Yan RY, **Williams CL** Estradiol state modulates the reliability of Arc mRNA expression in the intact female rat hippocampus and dorsal striatum during spatial navigation, submitted.

Wong-Goodrich, Mellott, TJ, Blusztajn, JK & Williams, CL Choline availability prenatal programs
hippocampal neurogenesis and memory function, submitted
Mohler EG, Einstein G & Williams CL. Female apolipoprotein E-deficient mice have impaired episodic memory performance on the radial-arm maze regardless of estrogen status, submitted.

Commentaries

Comment on: A role for ovarian hormones in the sexual differentiation of brain, Fitch and Dennenberg, Behavior and Brain Sciences 28, 340.

Williams CL (1998). Estrogen effects on cognition across the lifespan. Horm Behav. 34, 80-84.


Comment on "Sex differences in rhesus monkey toy preferences parallel those of children" by Hassett, Siebert and Wallen. Horm Behav. 54, 355-358.


Reprinted Articles


Ad hoc Journal Reviewer:

Behavioral Processes
American Journal of Physiology
Behavioral Neuroscience
Behavioral Brain Research
Brain Research
Child Development
Developmental Brain Research
Developmental Neurobiology
Developmental Psychobiology
Developmental Psychology
Endocrinology
European Journal of Neuroscience
Experimental Neurology
Frontiers in Neuroscience
Gender Medicine
Hippocampus
Hormones and Behavior
Learning and Memory
Journal of Neuroscience
Journal of Nutrition
Neurobiology of Aging
Neurobiology of Learning and Memory
Neuroendocrinology
Neuropsychopharmacology
Neuroscience
Physiology and Behavior
Proceedings of the National Academy of Sciences
Psychoneuroendocrinology
Professional Service at Duke University (1995-present)

Chair Department of Psychology: Experimental (1997-2001)
Chair: Department of Psychological and Brain Sciences (2001-2006)
Director of Graduate Studies: Department of Psychological and Brain Sciences (2001)
Academic Council Member (1997-2002: 2012- )
Executive Committee of the Academic Council (1999-2002)
Academic Priority Committee (1998-2001)
Faculty Representative to the Board of Trustee (Education and Academics Subcommittee) (1999-2002)
University-wide: Search Committees
  Chair: Department of Neurobiology
  Director: Center for Cognitive Neuroscience
Executive Committee - Senior Women in Science (2004- )
Faculty Diversity Standing Committee (2010- )
Faculty Survey Working Group (2010- )
College Prehealth Coordinating Committee (2010- )
Academic Council Committee on Undergraduate Education (2010 - 2011)
Judicial Board (2006 - )
Area Head: Systems and Integrative Neuroscience Graduate Program, Dept. Psychology & Neuroscience
Director of Undergraduate Studies – Neuroscience (2009- )
Executive Board – Duke Institute for Brain Science (2012- )
Curriculum Vitae

KELLY SULLIVAN GIOVANELLO, PH.D.

University of North Carolina at Chapel Hill                    Phone: (919)843-1302
Department of Psychology                               E-mail: kgio@unc.edu
CB #3270, Davie Hall 341A                              http://www.unc.edu/~kgio/
Chapel Hill, NC 27599-3270

EDUCATION

2003-2006  *Postdoctoral Fellow* in Cognitive Neuroscience, Department of Psychology, Harvard University and Martinos Center for Biomedical Imaging  
Advisor: Daniel L. Schacter, Ph.D.
1998-2003  *Ph.D.*, Neuroscience, Boston University, Boston, MA  
Advisor: Mieke Verfaellie, Ph.D.  
1995-1996  *M.S.*, Neuroscience, Brandeis University, Waltham, MA  
Master's Thesis: Adult age-related differences in the temporal characteristics of category free recall.
1991-1995  *B.S.*, Biology and Psychology, Stonehill College, Easton, MA

PROFESSIONAL EXPERIENCE

Academic Appointments

2012-present  *Associate Professor*, Department of Psychology, University of North Carolina at Chapel Hill.
2006-present  *Core Faculty Member*, Biomedical Research Imaging Center, University of North Carolina at Chapel Hill.
2006-2012  *Assistant Professor*, Department of Psychology, University of North Carolina at Chapel Hill.

Other Academic Activities

2008-present  *Primary Graduate Faculty*, Curriculum in Neurobiology, University of North Carolina at Chapel Hill.
2006-present  *Research Associate*, Institute on Aging, University of North Carolina at Chapel Hill.
2004-2006  *Undergraduate Seminar Instructor*, Department of Psychology, Harvard University.
2002  *Fellow*, Massachusetts General Hospital Nuclear Magnetic Resonance Center, Training Course in Functional Magnetic Resonance Imaging.
1995-1996  *Graduate Research Fellow*, Program in Neuroscience, Brandeis University.
**HONORS**

2013 Selected Participant, Neuroimaging Data Analysis Program, Statistical and Applied Mathematical Sciences Institute, Raleigh, NC.

2013 Elected Member, University of North Carolina at Chapel Hill Faculty Grievance Committee.

2011 Elected Member, University of North Carolina at Chapel Hill Faculty Council, Natural Sciences Division.

2010 Elected Member, Memory Disorders Research Society.

one of 165 members worldwide (membership is limited by bylaws and is invitation only).


2007 Gordon H. DeFriese Career Development Award in Aging Research.

2007 Teaching commendation for *Cognitive Neuroscience* (PSYC 434), UNC Department of Psychology.

2011 Elected Member, University of North Carolina at Chapel Hill Faculty Grievance Committee.

2010 Elected Member, Memory Disorders Research Society.

one of 165 members worldwide (membership is limited by bylaws and is invitation only).

2007 Gordon H. DeFriese Career Development Award in Aging Research.

2007 Teaching commendation for *Cognitive Neuroscience* (PSYC 434), UNC Department of Psychology.

2005 Elected Member, International Society for Behavioral Neuroscience

one of 150 members worldwide (membership limited by bylaws and is determined by presentation to the society and acceptance by the majority of members).

2004 Laird Cermak Award, Excellence in Graduate Research, Memory Disorders Research Society.


2003 Carol A. Biber Award for Excellence of Dissertation Research, Boston University.

2003 The Annual Laird Cermak Lecturer, Massachusetts Neuropsychological Society.

2002 Nelson Butters Award for Scholarship in Neuropsychology, Massachusetts Neuropsychology Society.

2002 Henry I. Russek Student Achievement Award, Boston University.


2000 Travel Award, Graduate Medical Sciences, Boston University.

2000 Neuroscience Academic Scholarship, Boston University.

1999 Neuroscience Academic Scholarship, Boston University.

1998 Neuroscience Academic Scholarship, Boston University.

1995 Neuroscience Academic Scholarship, Brandeis University.

**BIBLIOGRAPHY**

**BOOK CHAPTERS**

(*Indicates UNC affiliation; § Indicates a graduate student co-author in my laboratory*)


**REVIEWED ARTICLES**

(*Indicates refereed article; †Indicates UNC affiliation; §Indicates a graduate student co-author in my laboratory; °Indicates an undergraduate student co-author in my laboratory)

1. *Castel, A. & Giovanello, K. S.*  


CONFERENCE AND COLLOQUIUM PRESENTATIONS
(*Indicates refereed presentation; †Indicates UNC affiliation)

1. †Giovanello, K.S. Functional neuroimaging of memory disorders. Presented at the Bryan Alzheimer’s Disease Research Center, Duke University Medical Center, Durham, NC. June 2013.

2. †Giovanello, K.S. Neuroanatomical Organization. Presented at the Bryan Alzheimer’s Disease Research Center, Duke University Medical Center, Durham, NC. August 2012.

3. †Giovanello, K.S. Neural correlates of relational memory in healthy aging and AD. Presented at the Behavioral Neuroscience Seminar Series, UNC-Chapel Hill. February 2012.


5. †Giovanello, K.S. Medial temporal lobe memory systems. Presented at the Bryan Alzheimer’s Disease Research Center, Duke University Medical Center, Durham, NC. March 2011.


**SYMPOSIUM ORGANIZER**

(*Indicates refereed symposium; †Indicates UNC affiliation; § Indicates a graduate student co-author in my laboratory; ° Indicates an undergraduate student co-author in my laboratory)


**PUBLISHED ABSTRACTS**

(*Indicates refereed abstract; †Indicates UNC affiliation; § Indicates a graduate student co-author in my laboratory; ° Indicates an undergraduate student co-author in my laboratory)


23. †Wang, W.°, Moore W., & Giovanello, K.S. Neural correlates of successful relational memory. UNC Biomedical Research Imaging Center Symposium Abstracts, Chapel Hill. May 2008.


**TEACHING RECORD**

**Teaching Awards**

2007 Department Teaching Commendation for PSYC 434, *Cognitive Neuroscience*

**Undergraduate Courses Taught**

*Cognitive Psychology* (PSYC 230) UNC-CH Fall 2008 (120 students); Fall 2010 (130 students); Fall 2012 (130 students); Fall 2013 (120 students).

*Cognitive Neuroscience* (PSYC 434) UNC-CH Spring 2007 (45 students)

*Brain and Cognition* (PSYC 434) UNC-CH Fall 2006 (*name changed to Cognitive Neuroscience; 45 students)

Independent Research (PSYC 395) UNC-CH Fall 2006 (1 student); Spring 2007 (1 student);
Fall 2008 (2 students); Spring 2009 (2 students);
Fall 2009 (1 student); Spring 2010 (1 student);
Fall 2010 (2 students), Spring 2011 (2 students);
Fall 2011 (2 students), Spring 2012 (1 student);
Fall 2012 (2 students), Spring 2013 (1 student),
Fall 2013-Spring 2014 (1 student).

Honors Thesis (PSYC 693 and 694) UNC-CH
Fall 2008-Spring 2009 (2 students),
Fall 2013-Spring 2014 (1 student).

Cognitive Neuroscience of Memory Harvard Spring 2006
Patient-Based Neuroscience Harvard Fall 2005
Aging and Cognition Harvard Spring 2005

Graduate Courses
Cognitive Neuropsychology (PSYC 740) UNC-CH Fall 2013 (10 students)
Cognitive Aging (PSYC 743) UNC-CH Fall 2009 (13 students); Fall 2012 (9 students)
Cognitive Neuroscience (PSYC 739) UNC-CH Spring 2008 (15 students); Fall 2011 (12 students);
Independent Study: Methods in Cognitive Neuroscience (EXSS 890-002) UNC-CH, Fall 2013 (1 student);
Advanced Research (PSYC 991) UNC-CH Fall 2007 (1 student); Spring 2008 (1 student);
Fall 2011 (1 student); Spring 2012 (1 student); Fall 2012 (2 students); Spring 2013 (2 students);
Fall 2013 (1 student).
Master’s Thesis (PSYC 993) UNC-CH Fall 2008 (1 student); Spring 2009 (1 student);
Fall 2009 (1 student); Fall 2013 (1 student).
Doctoral Dissertation (PSYC 994) UNC-CH Spring 2007 (1 student); Fall 2007 (2 students);
Spring 2008 (2 students); Fall 2008 (1 student); Spring 2009 (2 students); Fall 2009 (2 students);
Spring 2010 (3 students); Fall 2010 (1 student); Spring 2011 (1 student); Fall 2011 (1 student).

Guest Lecturer
I have given guest lectures in undergraduate and graduate course at the University of North Carolina at Chapel Hill including courses in the department of Psychology, the UNC-BEST program, the UNC School of Medicine and the UNC School of Nursing. I have given numerous guest lectures at other institutions including Duke University, Elon University, North Carolina State University, Harvard University, Boston University, and Boston University School of Medicine.

Teaching Mentor
Ms. Eleanna Varangis & Ms. Page Sloan (PSYC 230-Section1), Fall 2013
Ms. Eleanna Varangis & Mr. Milton Picklesimer (PSYC 230-Section1), Fall 2012
Ms. Miri Besken & Mr. Matt Lowder, Cognitive Psychology (PSYC 230-Section1), Fall 2010
Ms. Jaclyn Hennessey, Cognitive Psychology (PSYC 230-Section2), Fall 2010
Ms. Ilana Dew & Ms. Jaclyn Hennessey, Cognitive Psychology (PSYC 230), Fall 2008
Ms. Jaclyn Hennessey Ford, Cognitive Psychology (PSYC 230), Fall 2010

Dissertation Committees (Chaired)
Ilana T. Z. Dew. *Cognitive and Neural Correlates of Implicit Relational Memory in Young and Older Adults*. Winner of an APA Dissertation Award and Supported by an Individual Predoctoral National Research Service Award through the National Institute on Aging. University of North Carolina at Chapel Hill (Defense Spring 2010)  
Current Affiliation: Postdoctoral Fellow, Center for Cognitive Neuroscience, Duke University

Current Affiliation: Postdoctoral Fellow, MIND Institute, University of California at Davis

Current Affiliation: Postdoctoral Fellow, Wake Forest University

**Dissertation Committees (Co-Chaired)**
Felipe De Brigard (Department of Philosophy, Co-Chaired with Dr. Jesse Prinz)  
Reconstructing Memory  
University of North Carolina – Chapel Hill (Defense Spring 2011)  
Current Affiliation: Postdoctoral fellow, Department of Psychology, Harvard University

**Master’s Theses (Chaired)**


**Honors Theses (Chaired)**

Elizabeth Cordell. *Frontal and Medial Temporal Lobe Contributions to Item and Associative Recognition in Aging*. University of North Carolina – Chapel Hill (Spring 2008)

**Honors Theses (Served On)**
S. Adam Smith. *An Exploration of the Negative Effects of Repetition and Testing on Memory*. University of North Carolina at Chapel Hill (Spring 2012)


Caleb Pardue. *Is Thought-Action Fusion Related to Developmental Experiences with Rigid Rules?* University of North Carolina at Chapel Hill (Spring 2010)


Nkaku Kisaalita. *Effects of Weak Auditory Stimulation on Vibrotactile Sensory Perception.* University of North Carolina at Chapel Hill (Spring 2007)

**Independent Research Supervised**

*Psychology 395*: Fahmida Azad ’09, Katie Barnes ’13, Benjamin Barone ’11, Jacquelynn Berton ’14, Ryan Brady ’14, Caroline Byrd ’11, Isabella Cassell ’13, Karrie Chapman ’12, Marie Clements, ’14, Corey Cusimano ’11, Matthew Howard ’11, Elena Medeiros ’11, Brooke Taylor ’08, and Wei-chun Wang ’08.

*Summer Pre-Graduate Research Experience (SPGRE) Fellow*: Kathryn Dunlap (Summer 2008)

*North Carolina School of Science and Math Honors Research Program*: Heather MacMoyle (2009-2010)

**GRANTS & CONTRACTS**

(콩 Indicates currently active grant)

**Grants: Principal Investigator**

*Functional Brain Network Abnormalities in MCI: Effects of Memory Performance*

PI: K. S. Giovanello  
Type: R21 AG045740-01  
Total Direct Cost: $275,000  
Funding Period: 1/1/14-12/31/2016

*Neural Mechanisms of Implicit Relational Memory in Aging*

PI: K. S. Giovanello  
Type: NSF 0005 –*under revision*  
Total Direct Cost: $567,513  
Funding Period: 7/1/13-6/30/2017

*Large-scale functional brain network abnormalities in MCI*

PI: K. S. Giovanello  
Type: NC Translational and Clinical Sciences Institute  
Total Direct Cost: $49,800  

*Functional-anatomic correlates of relational memory in aging and MCI.*

PI: K. S. Giovanello  
Type: NIA K01 AG028774  
Total Direct Cost: $563,642  
Funding Period: 7/1/2007-6/30/2012

*Neural activity during unconscious retrieval of relational memories*

PI: K. S. Giovanello  
Type: Junior Faculty Development Award  
Total Direct Cost: $7,500  
Funding Period: 1/1/2008-12/31/2008
Age-related differences in neural activity during retrieval of relational memories.
PI: K. S. Giovanello Total Direct Cost: $5,000
Type: Gordon H. DeFriese Career Development Funding Period: 9/1/2007-8/31/2008

Age-associated non-selective neural activations.
PI: K. S. Giovanello Total Direct Cost: $103,023
Type: NIA F32 AG023439; Funding Period: 2003-2006
Daniel L. Schacter, Sponsor, Harvard University and Martinos Center for Biomedical Imaging

Associative recognition memory in amnesia.
PI: K. S. Giovanello Total Direct Cost: $34,656
Type: NIMH F31 MH65113; Funding Period: 2001-2003
Mieke Verfaellie, Sponsor, Boston University

Sponsored Grants: Principal Investigator

The Role of Executive Control in Emotional Memory Retrieval in Older Adults
Sponsor: K. S. Giovanello Predoctoral Fellow: Jaclyn Hennessey Ford
Type: NIA F31 AG039100 Funding Period: 7/1/2011-6/30/2013

Executive Control and Emotional Memory in Older Adults
Sponsor: K. S. Giovanello Predoctoral Fellow: Jaclyn Hennessey Ford
Type: Earl and Barbara Baughman Dissertation Award Funding Period: 2011-2012

Implicit Relational Memory
Sponsor: K. S. Giovanello Predoctoral Fellow: Ilana T. Z. Dew
Type: NIA F31 AG031660 Funding Period: 7/1/2008-5/18/2010

Implicit Relational Memory: Dissertation Research
Sponsor: K. S. Giovanello Predoctoral Fellow: Ilana T. Z. Dew
Type: American Psychological Association Funding Period: 2009-2010

The Source of the Associative Deficit in Aging
Sponsor: K. S. Giovanello Predoctoral Fellow: So-Yeon Kim
Type: Earl and Barbara Baughman Dissertation Award Funding Period: 2010

Effects of Aging and Prospective Memory on Associative Recognition
Sponsor: K. S. Giovanello Predoctoral Fellow: Wei-chun Wang
Type: David Bray Peele Memorial Research Award Funding Period: 2007-2008

Executive Function in Daily Life
Sponsor: K. S. Giovanello Predoctoral Fellow: A. Leslie Vaughan
Type: Earl and Barbara Baughman Dissertation Award Funding Period: 2007

Grants: Co-Investigator
Advancing the Frontiers of Research in Professional Football: Safeguarding the Health of Active and Former NFL players.
Co-I: K.S. Giovanello (PI: Guskiewicz) Total Direct Cost: $99,000,000
Type: National Football League Players Association Funding Period:
Refining a Dual-Task Rehabilitation Program for Mild Traumatic Brain Injury.
Co-Investigator: K.S. Giovanello (Co-PIs: Register-Mihalik and Guskiewicz)
Total Direct Cost: $10,000
Type: NC Translation and Clinical Sciences Institute          Funding Period: 2011-2012

The Emergency of Brain Functional and Anatomical Networks in the Developing Brain.
Co-I: K.S. Giovanello (PI: Lin)                         Total Direct Cost: $50,000
Type: NC Translation and Clinical Sciences Institute          Funding Period: 2009-2010

PROFESSIONAL SERVICE TO THE DISCIPLINE

Membership in Professional Societies
2006-present  American Association for the Advancement of Science
2006-present  American Psychological Association
2006-present  Association for Psychological Science
1999-present  Cognitive Neuroscience Society
2010-present  Gerontological Society of America
2006-present  International Neuropsychological Society
2005-present  International Society for Behavioral Neuroscience
2010-present  Memory Disorders Research Society
2006-present  New York Academy of Sciences
2011-present  Psychonomic Society
1999-present  Society for Neuroscience

Ad Hoc Reviewer, Journals
Cerebral Cortex
Cognitive Neuropsychology
Hippocampus
Memory and Cognition
Neurobiology of Aging
NeuroImage
Neuron
Frontiers in Human Neuroscience
Neuropsychologia
Neuropsychology Review
Neuroscience
Psychology and Aging
Psychological Science
The Journal of Neuroscience
The Journal of Experimental Psychology: Learning, Memory, and Cognition

Grant Reviewer
2013  2014 Brain Research Foundation-Scientific Innovation Award, Internal Review Committee Member, UNC-CH
2012  2013 Searle Scholars Program, Internal Review Member, UNC-CH
2012  2013 Pew Scholars Program, Internal Review Committee Member, UNC-CH
2011  Rita Allen Scholars, Internal Review Committee Member, UNC-CH
2008-present  UNC Clinical Translation Research Program

Giovanello – CV – Page 16 of 19
Last Revision: 8/31/13
Other Service to the Discipline
2012 Faculty Mentor, Mentoring Program in Neuroscience, Boston University School of Medicine
2012 Faculty Mentor, Notre Dame Academy High School Neuroscience Network, Hingham, MA.
2010 Nanosymposium Organizer, Society for Neuroscience Annual Meeting
2010 Panel Member, Autism and Aging: Toward Defining a National Agenda, Chapel Hill, NC.
2009 Conference Organizer, International Society for Behavioral Neuroscience, Hilton Head, SC.
2007 Cognitive Neuroscience Poster Committee, Cognitive Neuroscience Society
2006 Mini-symposium Organizer, Society for Neuroscience Annual Meeting

Service Activity at Other Institutions
2005 Panelist for Good Science Good Practice Seminar on Postdoctoral Positions (Harvard University)
2005 Co-leader of Grant Writing Seminar for National Research Service Awards (with Bruce Rosen, MD, Ph.D., Martinos Center for Biomedical Imaging)
2003-2005 Organizer of weekly Martinos Center Cognitive Neuroscience series (Martinos Center for Biomedical Imaging. MIT/Harvard University)
2004 Panelist for Good Science Good Practice Seminar on Predoctoral Grant Funding (Harvard University)
1999-2001 Departmental representative to Graduate Student Organization (Boston University School of Medicine)

Professional Service to UNC Chapel Hill

UNC University Service
Upcoming Internal Review Team Member – Human Movement Science Program
2013 2014 Brain Research Foundation-Scientific Innovation Award, Internal Review Committee Member
2013 University of North Carolina at Chapel Hill Faculty Welfare Committee, appointed member
2013 University of North Carolina at Chapel Hill Faculty Grievance Committee, elected member
2013 Presentation Judge, BRIC/Radiology Research Day
2013- Chair, Dissertation Committee for Audrey Verde Nelson M.D./Ph.D. Program
2012-present Faculty mentor to the UNC NeuroCare Club
2012-present Junior Faculty Mentor, Department of Exercise and Sports Science
2012 Researcher (Non-Biomedical) Participant for site-visit from the Association of the Accreditation of Human Research Protection Programs (AAHRPP)
2012 2013 Searle Scholars Program, Internal Review Committee Member
2012 2013 Pew Scholars Program, Internal Review Committee Member
2011-2014 UNC Faculty Council, Natural Sciences Division, elected member
2012 Seminar Faculty, Certificate in Aging, UNC Institute on Aging
2011 Rita Allen Scholars Internal Review Committee Member
2011 Dissertation committee member for student: Audrey Verde Nelson M.D./Ph.D. Program
2011-2013 Dissertation committee member for student: Zakaria Khondker
2010 Department of Biostatistics, Gillings School of Public Health
2010 Education Committee, Biomedical Research Imaging Center

Giovanello – CV – Page 17 of 19
Last Revision: 8/31/13
2010       Interviewer, MD/PHD Admissions Program
2010       Seminar Faculty, Certificate in Aging, UNC Institute on Aging
2010       Search Committee Member, Department of Radiology
2009-2012  Program of Studies Committee Member for student: Kristin Dellinger
          UNC School of Education (Faculty Advisor: Jeff Greene)
2009-2013  Faculty mentor to the UNC Undergraduate Neuroscience Club
2009       Statistical Parametric Mapping Version 8 Workshop Organizer
2007-present Advisor Board Member, Certificate on Aging, UNC Institute on Aging,

UNC Psychology Departmental Service
2013-present Junior Faculty Mentor, Department of Psychology
2012-2013   Co-chair, Neuroscience Lecturer Search Committee
2012-present Dissertation committee member for student: Audrey Wells
            (Committee Chair: Dr. Rita Fuchs)
2011       Participant, Faculty-Student Research Social
2011       Committee Member, Stephenson Award Committee
2011-present Committee Member, Undergraduate Curriculum Committee
2011       Chair, Neuroscience Minor Proposal Committee
2011       Committee Member, Undergraduate Honors Program Evaluation
2011       Interviewer, Grants Management Officer
2011       Interviewer, Business Manager
2011       Dissertation committee member for student: Megan Harney
            (Committee Chair: Dr. Anna Bardone-Cone)
2009-2012  Elected to the Department of Psychology Advisory Council
2008-2010  Department of Psychology Ethics Committee
2007-2012  Liaison between Department of Psychology and University Libraries
2007       Dissertation committee member for student: Brea Salib
            (Committee Chair: Dr. Marilyn Hartman)

Cognitive Psychology Program
2013-present Dissertation committee member for student: Matthew Lowder
            (Committee Chair: Dr. Peter Gordon)
2012-2013   Dissertation committee member for student: Wonil Choi
            (Committee Chair: Dr. Peter Gordon)
2012-2013   Masters thesis committee member for student: Elise Rosa
            (Committee Chair: Dr. Jennifer Arnold)
2012       Masters thesis committee member for student: Patrick Powell
            (Committee Chair: Dr. Mark Klinger)
2012       Co-Organizer; North Carolina Cognition Conference
2011-2012   Masters thesis committee member for student: Milton Picklesimer
            (Committee Chair: Dr. Neil Mulligan)
2010-2011  Dissertation committee member for student: Miri Besken
            (Committee Chair: Dr. Neil Mulligan)
2010-2011  Dissertation committee member for student: Emily Parks
            (Committee Chair: Dr. Joseph Hopfinger)
2010-2011  Dissertation committee member for student: Daniel Peterson
            (Committee Chair: Dr. Neil Mulligan)
2010       Masters thesis committee member for student: Matt Lowder
            (Committee Chair: Dr. Peter Gordon)
2007-2008 Masters thesis committee member for student: Emily Parks  
(Committee Chair: Dr. Joseph Hopfinger)
2007-2008 Masters thesis committee member for student: Daniel Peterson  
(Committee Chair: Dr. Neil Mulligan)
2008 Masters thesis committee member for student: Miri Besken  
(Committee Chair: Dr. Neil Mulligan)
2007-2008 Dissertation committee member for student: Marcus Johnson  
(Committee Chair: Dr. Peter Gordon)
2006-2007 Dissertation committee member for student: Vicki West  
(Committee Chair: Dr. Joseph Hopfinger)
2006-2007 Dissertation committee member for student: Jeffrey Lozito  
(Committee Chair: Dr. Neil Mulligan)
2006-2007 Dissertation committee member for student: Anthony Reis  
(Committee Chair: Dr. Joseph Hopfinger)
2006-2007 Dissertation committee member for student: Sarah Hart  
(Committee Chair: Dr. Aysenil Belger)
2006-2007 Dissertation committee member for student: Mary Michael  
(Committee Chair: Dr. Peter Gordon)

**Curriculum on Neurobiology**
2013 Chair, Neurobiology Curriculum Qualifying Exam Committee for student: Sierra Stringfield
2012 Chair, Neurobiology Curriculum Qualifying Exam Committee for student: Mariko Weber
2010-present Neurobiology Curriculum Membership Committee
2010 Interviewer, Biological and Biomedical Sciences Program
2010 Neuroscience Program Tuesday’s Mini-Series Lecture, Faculty Speaker
2010 Seminar in Neuroscience, Lecturer Host

**PROFESSIONAL SERVICE TO THE PUBLIC**
2013 UNC Science Exposition Exhibitioner, Morehead Planetarium, UNC Chapel Hill, NC
2012 What’s the Big Idea: Brain Talk Series, Friday Center, UNC Chapel Hill, NC
2012 UNC Science Exposition “Ask a Scientist” Participant, Morehead Planetarium, UNC
2012 UNC Science Exposition Exhibitioner, Morehead Planetarium, UNC Chapel Hill, NC
2011 Presentation: “Healthy Aging and Memory”, Twin Lakes Community, Burlington, NC
2010 UNC Science Exposition, Morehead Planetarium, UNC Chapel Hill, NC
2010 Research Symposium 2010, North Carolina School of Science and Mathematics
2010 National Lab Day sponsored by the Society for Neuroscience
2010 Presentation: “Healthy Aging and Memory”, Carolina Meadows, Chapel Hill, NC
2009 Presentation: “Aging Memory”, Osher Institute for Life Long Learning, Durham, NC
2009 Presentation: “Making Memories in Healthy Aging”, Fearrington Village
2008 Presentation: “Staying Sharp”, Dana Alliance for Brain Initiatives, Charlotte, NC
2008 Presentation: “Making Memories”, Morehead Planetarium and Science Center
2008 Presentation: “Women in Science”, Science Center, Meredith College, Raleigh, NC
2003 Presentation: “Careers in Science”, Career Night, Stonehill College, Easton, MA
Minali Nigam  
8917 Man of War Drive  
Waxhaw, NC 28173  
(704) 654-0222  
minali.nigam@duke.edu

Education  
Duke University  
Durham, NC 27708  
A.B. in Psychology  
Women's Studies Minor,  
Speech & Hearing Sciences Minor

Extracurricular Activities/Volunteer/Certifications  
Duke & UNC NeuroCare: service organization helping people affected by neurological disorders  
Founder, President  
2011-Present

Parents As Teachers: program assessing proper development in children’s motor, social, intellectual, and language skills  
Certified Parent Educator  
2012-Present

Aarambh Reach Project: shelter for underprivileged children  
U.S. Volunteer Coordinator  
2008-Present

Child Connect Tutoring Program  
3rd grade Math Tutor  
2011

Speech & Debate  
Founder, Captain  
2007-2011

UNC Samaa: South Asian A Capella  
2012-Present

Awards & Recognition

Robertson Scholarship  
2012-2015

Certified Parent Educator  
2012-Present

Duke Dean's List  
2011-2012

AXA Community Scholarship  
2011

National Honor Society Scholarship  
2011

Prudential Spirit of Community Service Award  
2011

Presidential Service Award  
2011

National Forensic League Academic All-American Award  
2011

Outstanding Senior in Science  
2011

Varsity Tennis 3-time Conference Champions  
2008-2010

Academic Excellence Award  
2008, 2010-2011
Research Experience

Behavioral Economics Research Assistant
Center for Advanced Hindsight with Dr. Dan Ariely
2011-2012 (3 semesters)

Research Assistant
Effects of Childhood Abuse and Telomere Shortening
with Dr. Avshalom Caspi
2011-2012 (2 semesters)

Research Assistant
Cord Blood Study for Autistic Children
with Dr. Geraldine Dawson
2013-Present

Volunteer Experience

St. Gabriel's Mercy Center in Mound Bayou, Mississippi
Coordinator for Summer Youth Program
Summer 2012

Aarambh Reach Project in Indore, India U.S. Volunteer Coordinator
2008-Present

Lalla Maryem Orphanage for Abandoned Children in Rabat, Morocco
May 2013

The Lighthouse Arabia Community Psychology Clinic in Dubai, UAE
June 2013

Medical Shadowing:

Mentor: Hemanth Rao, MD, Director of the Neurological Institute, Neurology

Observed rehabilitation for TBI patients; discussed and observed medical protocol for prescription drug research; wrote proposal suggesting ways to reduce health care utilization in long-term care facilities
May 2012

Work Experience

Durham Academy Speech and Debate Coach
2011-2012

Duke Recreation and Physical Education Group Fitness Instructor
2013-Present
Lillian D Sun
32699 Seneca Dr.
Solon, OH 44139
lilliansun@ameritech.net

EDUCATION:
Duke University
Durham, NC 27708
Candidate for Graduation: May, 2015

Solon High School
33600 Inwood Road
Solon, OH 44139
Graduation: June, 2011

EXTRACURRICULAR ACTIVITIES:
Science Olympiad
National Tournament Champions 2008, 2011

Mock Trial 2007—Present
Team Captain 2009

Speech and Debate 2007—Present
State Tournament 2009
Student Congress: Semi—finalist

National Honors Society 2009—2011

Duke NeuroCare 2011—Present
Co—founder 2011—Present
Vice President 2011—Present

Duke Big Brothers Big Sisters 2011—Present
Historian/Public Relations 2011—2012
President 2012—Present

AWARDS:
Honor Roll/Academic Letter 2007—2011
Science Interest Award 2010
National Merit Scholar 2010
National Merit Semi—finalist 2010
AP Scholar with Distinction 2010
National AP Scholar 2010
Poster Award—7th International Conference on Innate Immunity 2010
  Time and Location: July 4—9, 2010; Rhodes, Greece
  Activity: Poster Presentation during poster sessions of the meeting
  Award: Special Award for Poster Presentation, $250.
Duke Fall Dean’s List with Distinction 2012
RESEARCH EXPERIENCE:

Summer Research Intern 2009-2010
Department of Pathology at Case Western Reserve University

Research Volunteer 2012-Present
Department of Pharmacology and Cancer Biology at Duke University

MEDICAL SHADOWING:

Summer of 2009 and 2010
Mentor: Mark Aronica, MD, Staff, Pulmonary, Allergy and Critical Care Medicine
Observed conversations with patients; discussed possible diagnoses and treatments; observed allergy skin testing; interacted with medical students, residents and fellows.

WORK EXPERIENCE:

Kumon Math and Reading Center 2009-2011
Teaching students (K-12) advanced reading
Comprehension and mathematical concepts

VOLUNTEER WORK:

Cleveland Clinic 2008
Junior Ambassador
The Cleveland Clinic Foundation
Cleveland, Ohio
Total Hours of Service: 93
Work: Transporting patients, filling out patient forms, checking in and out patient charts, reading to children, guiding families of patients around the hospital

Awards: Three Department Awards for outstanding volunteer services (awarded to one volunteer in each department)
EDUCATION:
Duke University – Durham, NC
Pursuing a B.S. in Biology and a Environmental Science Minor
Expected graduation date: May 2016
Current GPA: 4.0
Solon High School – Solon, OH
Graduation with Honors Diploma: May 2012
GPA: 4.0

EXTRACURRICULAR ACTIVITIES AND VOLUNTEERING:
NeuroCare
Duke Chorale
FEMMES (Females Excelling More in Math, Engineering and Science)
Duke Hospital Volunteer
National Honor Society
Mock Trial
Project P.E.A.C.E
Solon High School Freshmen Mentor
Cleveland Chinese School Teaching Assistant

LEADERSHIP:
Duke NeuroCare – Secretary
Duke NeuroCare – Freshman Representative
Solon High School Future Problem Solving Club – Vice President
Solon High School Future Problem Solving Club – Treasurer

AWARDS AND ACCOMPLISHMENTS:
Dean’s List with Distinction
Honoree at the White House Science Fair
U.S. Presidential Scholar
National Merit Scholarship Finalist
Top AP Scholar for Ohio
National AP Scholar 2011
National Level Qualifier in USA Chemistry Olympiad 2011
National Semi-finalist in the USA Biology Olympiad 2010

**WORK/RESEARCH EXPERIENCE**

Research Assistant for Murphy Lab 2013 – Present
- *The Influence of the Environment on Gametic Epigenetic Reprogramming*
Solon Board of Education v2012
Private Tutoring for Spanish and Calculus 2012
Cleveland Clinic Radiology Internship Program – Research Intern 2010
- *Assistance with the project “Retrospective Review of Imaging Strategies for Acute Ischemic Stroke”*
EDUCATION

Duke University, Durham NC
B.S. in Neuroscience; Minor in Psychology, Music expected May 2016
Deerfield Beach High School, Deerfield Beach, FL May 2012
  - Valedictorian GPA: 5.5942
  - AP (14 credits) IB (5 credits)

HONORS/AWARDS

National Merit Scholarship Finalist May 2012
National AP Scholar May 2011
AP Scholar with Distinction May 2010
Florida Junior Academy of Sciences (FJAS) – 3rd Place March 2010

EXTRA-CURRICULARS/RESEARCH/ VOLUNTEERING

Duke Men’s Rowing
Second-Year Rower – Starboard 2013-Present

Center for Cognitive Neuroscience, Duke University
Research Assistant in the Adcock Lab 2013 – Present
  - Ran schizophrenia subjects in studies to elucidate the neural pathways for motivation and reward

Biology Department, Florida State University
Lab Assistant in the McGinnis Lab June – July 2011
  - Prepared tissue samples for PCR and DNA sequencing to study missense mutations and gene silencing

NeuroCare
Treasurer 2012 – Present
  - Organized brain awareness seminars and activities in schools in Durham and Cary

Duke Symphony Orchestra
Violinist 2012 – Present
  - Raised funds for the Beaufort Cancer Center through an annual charity concert

CMA-MAPS Tutoring Program
CMA-MAPS Liaison/MAPS Executive Board Member 2013 – Present
  - Worked with faculty at City of Medicine Academy to create a Duke tutoring program

Duke University Blue Buddies
Founding Member/Fundraising Chair 2013 – Present
  - Helped establish a program to serve the children at Duke’s Ronald McDonald House
Eddie Liu
502 Westminster Dr. Chapel Hill, NC - (919) 260-3936 - eddie.liu@duke.edu

Education
Bachelor of Science, Neuroscience, Bachelor of Science, Psychology anticipated May 2015
Duke University, Durham, NC

Volunteer Experience
Volunteer – Central Regional Psychiatric Hospital – Fall 2013-ongoing
Duke Ambassador Volunteer - Duke Hospital - Fall 2012-ongoing
Volunteer - Geriatric Psychiatry at UNC-Chapel Hill Hospital - Summer 2012

Research Experience
Research Independent Study – Duke Psychology and Neuroscience Department – Fall 2013-Ongoing
Research Volunteer - Duke Institute for Brain Sciences - Fall 2012-ongoing

Work Experience
North Carolina Collaborative Summer Research Experience Program - Duke Clinical Research Institute - Summer 2013
Research Assistant - Duke Center for Cognitive Neuroscience - Summer 2011
Center for Environmental Impact of NanoTechnology Research Internship – Summer 2010

Extracurriculars
Top Contributor in Mental Health Section of Yahoo Answers – 2008-ongoing
Secretary - To Write Love on Her Arms Club – Spring 2011-ongoing
Webmaster - Duke Neurocare – Fall 2013 - ongoing
Frank B. Lee
PO Box 93081 | Durham, NC 27705 | P: (408) 857-2693 | frank.b.lee@duke.edu

Education
Expected B.S. Neuroscience, Duke University 2016

Research
SURF in Neuroscience, Jankowski Lab, Cincinnati Children’s Hospital Medical Center, Cincinnati, OH (June - August 2013)
   Exploratory study into a non-narcotic growth hormone treatment for developmental pain
   (qPCR, RNA isolation, single-unit recording, mice behavior)
Research Assistant, Woldorff Lab, Duke University, Durham, NC (January 2013 - Present)
   Designed multimodal stimulus experiments observing the interaction between human
   perception of attention and reward (MATLAB, R, encephelography)
Zebrafish Technician, Tobin Lab, Duke University, Durham, NC (October 2012 - Present)
   Maintained zebrafish facility. Duties included feeding zebrafish, euthanizing sick zebrafish,
   preparing shrimp hatcheries, and maintaining standard living conditions for zebrafish

Service
Advertising chair, Neurocare, Durham, NC (August 2012 - Present)
   Online social outreach and on-campus advertising
   Manages Neurobuddies program, a student and physician collaborative effort to provide
   disabled persons with social support and enhanced productivity
Mentor, Partners for Youth and Duke InnoWorks, Durham, NC (August 2012 - Present)
Assistant editor, Duke International Relations Association, Durham, NC (September 2012 - Present)

Computer Skills
GNU Image Manipulation Program (GIMP)
HTML/CSS

Membership & Activities
Something Borrowed Something Blue a cappella
Chapel Choir
InterVarsity Christian Fellowship
Duke Toastmasters Club
Katherine E. Jordan
kjordan8@live.unc.edu

School Address:
700 Bolinwood Drive
Apt 36F
Chapel Hill, NC 27514
(301) 300-0396 (cell)

Home Address:
15625 Copperfield Lane
Darnestown, MD 20874

EDUCATION
University of North Carolina at Chapel Hill, Chapel Hill, NC GPA: 3.83
Bachelor of Science Graduation Expected May 2015
- Major: Biology
- Minor: Chemistry
Duke University, Durham, NC GPA: 3.87
- Minor: Neuroscience
Richard Montgomery High School, Rockville, MD Graduated 2011
- Full IB Diploma Recipient

HONORS/AWARDS
Robertson Scholar 2011-present
Honors Carolina 2011-present
Provisional Patent 2010
National AP Scholar 2010

LEADERSHIP
Breakthrough Collaborative, New Orleans, LA – Intern Chemistry Teacher Summer 2012
- Planned, taught, and tracked student success in 7th grade science class
- Led and participated in program sponsored co-curricular activities designed to promote student leadership skills, such as a program wide service day
- Mentored and advised four students throughout the summer

NeuroCare, Chapel Hill, NC – Co-founder of UNC Chapter, President 2012-present
- Worked with Duke NeuroCare founder to set up a sustainable sister chapter at UNC
- Plan activities to raise awareness and provide advocacy to those suffering from mental illnesses

Creative Afternoons, Germantown, MD – Counselor 2007-2011
- Counselor at summer camp for children with severe mental/physical disabilities

Germantown Titans Softball, Germantown, MD – Assistant Coach 2010-2011
- Coached 12U competitive travel team – ranked 7th in the nation fall 2010
- Developed drills for practice and worked one on one with players on individual skills

EXPERIENCE
Physician Shadowing, Cape Town, South Africa Summer 2013
- Over 100 hours shadowing physicians in a hospital in South Africa
- Observed doctors in surgery, internal medicine, gastroenterology, and radiological services

COMMUNITY INVOLVEMENT
Biology Tutor, Chapel Hill, NC 2013-present
- Nominated by previous biology professor to tutor students in his class

Robertson Scholar Peer Mentor, Chapel Hill, NC – Peer Mentor 2012-present
- Help guide a first-year Robertson Scholar through first year at Carolina

Residential Hall Association (RHA), Chapel Hill, NC – Office Assistant 2012-2013
- Work 10 hr/week as the front line of customer service in a residential dorm

Carolina Pre-Medical Association, Chapel Hill, NC – Member 2012-present
Best Buddies, Chapel Hill, NC – College Buddy 2011-2012
- Worked with an individual in the community with a developmental disability
EDUCATION

University of North Carolina at Chapel Hill
Expected Graduation May 2014
B.S. Biology | Minor in Business Administration
Major GPA: 3.813; Minor GPA: 3.834; Cumulative GPA: 3.797
SAT – Math: 800; Reading: 770; Writing: 790
Honors: Morehead-Cain Scholar, UNC Leadership Institute Graduate
Relevant Coursework: Consulting Skills and Frameworks, Corporate Finance, Accounting, Strategic Management, Operations, Strategic Management*, Introduction to the U.S. Health System* (Fall 2013 coursework*)

EXPERIENCE

Baylor Health Care System, Dallas, TX
Department of Health Economics Intern
June 2013 – July 2013
• Analyzed cost savings associated with palliative care programs at five hospitals within the Baylor Health Care System
• Developed guidelines for physicians and administrators to use in determining when palliative care is appropriate for patients
• Presented findings to top hospital executives and authored a white paper disseminated to administrative and clinical directors
• Attended executive meetings for Chief Medical Officer council, a new accountable care organization, and quality improvement

UNC Department of Pharmacology, Chapel Hill, NC
Research Assistant, lab of Thomas Kash
February 2013 – present
• Investigate the role of a specific neurotransmitter and brain circuit in causing anxiety-like behavior in mice
• Perform intracranial brain surgery, behavioral experiments, and subsequent statistical analyses on mice
• Present findings of experiments and findings of related research from other groups during lab meetings

Foundation for Sustainable Development, Masaya, Nicaragua
Public Health Intern at Centro de Salud Monimbo
May 2011 – July 2011
• Conducted a needs assessment at a mid-size government-operated health center in a team with three fellow Morehead-Cain Scholars
• Developed and implemented a comprehensive diabetes campaign using existing infrastructure to educate and treat high risk patients
• Designed and taught a sexual education workshop to ~200 students at four local high schools in Masaya
• Created clubs for high risk patients alongside doctors and community leaders to leverage social pressure to promote good health

LEADERSHIP

The Jon Curtis Student Enrichment Fund
Co-Director and Treasurer
October 2011 – present
• Launched ~$25,000 philanthropic fund for UNC students to pursue enrichment opportunities beyond the Chapel Hill campus
• Authored bylaws, developed yearly fiscal plan, and created yearly roadmap and final report
• Reviewed and selected 37 grants awarded to students ranging from ~$200–600 per grant
• Lead fundraising team in efforts to raise funds from academic departments, UNC alumni, local businesses, and private donors

Sigma Phi Society, Alpha of North Carolina
Founding Brother
January 2011 – present
• Worked with 16 fellow students and Sigma Phi alumni to structure and grow a new chapter of an existing fraternity at UNC
• Serve as Academic Chair where responsible for providing academic support and growth/networking opportunities for members

VOLUNTEER EXPERIENCE

UNC NeuroCare
Secretary
January 2013 – present
• Organize events and steer the growth of a new service group at UNC dedicated to serving people with neurological disorders

OTHER

Carolina Kickoff Counselor
September 2011 – present
Student Advisory Committee to the Chancellor
October 2011 – May 2012
UNC Admissions Ambassador
October 2010 – May 2012

SKILLS AND HOBBIES
• Skilled in use of Microsoft Excel, PowerPoint, and Word; certified in use of Bloomberg terminal
• Proficient in Spanish and currently studying Bengali
• Hobbies: Piano (studied for 11 years), Music, Traveling, Soccer, Basketball
Sainath Asokan

Home Address:
303 Jaslie Drive
Cary, NC 27518

College Address:
(919) 522-0008
sasokan@live.unc.edu
102 Country Club Road
Chapel Hill, NC 27514

EDUCATION

UNIVERSITY OF NORTH CAROLINA at CHAPEL HILL 2012- Present
Majors: pre-BSPH (Public Health) in Biostatistics
Minors: Chemistry, Mathematics
Candidate for Graduation: May 2016
Previous Credit Hours: 60 hours by exam and transfer credit (NC State University)

ENLOE HIGH SCHOOL, Class Rank: 7th of 570 2008 -2012
GPA: 5.35/6 weighted, 3.85/4 unweighted
SAT: 2350; 800 Math, 760 Critical Reading, 790 Writing
SATII: 800 Math II, 710 Biology-M

RESEARCH EXPERIENCE

Undergraduate Researcher - UNC School of Medicine/McAllister Heart Institute Sep 2013 – Present
Dr. Monte Willis Lab, Department of Pathology and Laboratory Medicine
-Use physiologic and molecular approaches to study the role of the ubiquitin proteasome system in cardiac hypertrophy.
-Statistically analyze genetics data using various software such as GeneSpring, DAVID Microarray Analysis, and GATHER.

Undergraduate Researcher - UNC School of Medicine, Nikolay Dokholyan Lab Jan 2013 – Present
Dr. Nikolay Dokholyan Lab, Department of Biochemistry and Biophysics
-Refining tertiary structure prediction of RNA using biochemical methods (particularly SHAPE Interference).
-Involved computational biology approaches such as discrete molecular dynamics and excessive statistical analysis using Python and Bash shell scripting.
-Co-author on RNA structure prediction on publication in preparation for being submitted to journals.

Microbiology Research Intern at North Carolina State University, Amy Grunden Lab 2009 - 2011
-Real-time PCR of extremophilic archaea, P. furiosus, in response to various oxidative/temperature stresses with potential applications in gene therapy for ALS.
-Engineered bio-reactor with a temperature gradient (70-130 C) to mimic the natural growth of P. furiosus.

Environmental-Materials Science Research Intern at RTI Center for Solid State Energetics 2010
-Characterization of Aspen’s Aerogel as a potential window insulator to reduce energy wastage.

AWARDS AND HONORS

Awarded Summer Undergraduate Research Fellowship (SURF) 2012
From the Office of Undergraduate Research

Honors Carolina 2012 – Present
National AP Scholar 2012

National Science Olympiad Medalist 2012
2nd Place: Anatomy and Physiology. Team Co-Captain/Coach (2009-2012)
Coached and led school’s Varsity Team to National Competition for first time in over ten years.

National Merit Commended Scholar 2012

State Winner and National Finalist 2011
Siemens ‘We Can Change the World’ Environmental Sustainability Challenge 2011

Best Project in Cellular and Molecular Biology 2011
Sigma Xi International Student Research Conference

LEADERSHIP EXPERIENCE/EXTRA-CURRICULAR ACTIVITIES at UNC

Senior E-Publishing Editor - International Editorial Board, The Triple Helix Inc. 2013 - Present

Vice President, UNC NeuroCare Organization 2012 - Present
- Promote awareness about various neurological disorders through student-organized speaker events.

Member, Global Medical Brigades 2012 - Present
- Medical mission trips to Tegucigalpa, Honduras (Spring Breaks 2013, 2014)
- Over 75 medical community service and physician shadowing hours each trip.

Academic Affairs Committee Member, Honors Program Student Executive Board 2012 - Present

Member, UNC Samaa Collegiate Acappella Team 2012 - Present

Physician Shadowing Intern (~100 Hours) 2012 - Present
- Drs. Fred Benedict, James Crowther, and Paul Burroughs at Raleigh Bone & Joint Surgery Clinic
  - Observed Dr. Benedict in 6 orthopedic surgeries (total replacement of knee, hip, and shoulder as well as shoulder and knee arthroscopies)
- Dr. Joseph Barker at Raleigh Orthopedic Clinic
- Drs. Paul Singh and Raj Makam at Center for Digestive Diseases/Cary Endoscopy Center
  - Observed approximately 30 colonoscopy and endoscopy procedures.

Staff Writer & Copy Editing Staff, Carolina Scientific Undergraduate Research Journal 2012 - Present

Volunteer, UNC Health Care (~30 Hours) 2013 - Present
- Radiology in the Neurosciences Department (Fall 2013), In-Patient Nursing Unit (Spring 2013)

ARTICLES AND PUBLICATIONS

“Don’t Hold Your Breath”: Staff Writer, Carolina Scientific Vol: 5, Issue: 1 Fall 2012
A new model for the periciliary brush layer has changed the way we think about lung health.

“Vessel Branching”: Staff Writer, Carolina Scientific Vol: 6, Issue: 1 Fall 2013
A new study further explains the feedback loop of signaling pathways used in blood vessel formation (angiogenesis).
Akash Patlolla

**Education**

UNC Chapel Hill  Chapel Hill, NC  Fall 2012 –


**Academics**

Year: Sophomore

Major: Biology (BS), Pre-Nutrition

GPA: 3.70

**Extracurricular activities**

-Research: - regarding the maximization of the hemoglobin/enzyme Dehaloperoxidise (DHP) under Dr. Stefan Franzen at the N.C State University Biochemistry department. The research was directed towards understanding the relationship between surface charge and reaction rates/activity of the enzyme. (Summer 2011)

-Research: - regarding the development of the Drosophila Melanogaster fruit fly as a suitable model organism to study the Spinal Muscular Atrophy disease under Dr. Greg Matera at the UNC biology department. I am currently performing locomotion assays on fly larva with specific mutations that have been found to cause SMA in humans, in order to determine if muscle control (which is lost to varying degrees in SMA patients) is also lost in flies. (Summer 2013-Present)

-Shadowing- shadowed Cardiologist Dr. Mohit Pasi at WakeMed Hospitals for two weeks. (Senior Year Summer)

- UNC GlobeMed Campaigns committee member. Helped plan events such as the Red Tie Affair to benefit AIDS research during World AIDS Week. (Freshman year)

-UNC Red Cross Club – General member, participated in blood drives and other events. (Freshman/Sophomore years)

-UNC Neurocare – promote awareness of neurological disorders, advocacy towards research towards their prevention/treatment, and action in helping those that are afflicted with the disorders through events such as volunteering at psychiatric hospitals, fundraisers, etc. (Freshman/Sophomore year)

**High School**

-Enloe Science Olympiad- General member, participated in the Science Olympiad competition Junior year. (Junior and Senior years of HS)
**Volunteer/Work experience**

Enloe Engineering Club - Secretary Junior and Senior years. Organized meetings/planned logistics for the competitions. My groups and I received second place in the medical technology event, first place in the Biotechnology Issues event, and third place in the chapter team event in the state conference during those two years. (Sophomore/Junior/Senior years of HS)

-Enloe Future Problem Solving Club - participated in the statewide Future Problem Solving competition during Junior year. (Junior/Senior year of HS)

-Enloe National Honor Society (Senior year).

-Over 250 hours at the Brentwood Boys and Girls Club performing various tasks such as taking care of the kids to cleaning up the play areas.

-36 Hours at Cary Library performing general tasks to help the staff.

-45 hours (1 week) as a Governors Page, working in the Department of Revenue and helping distribute mail within the department and its associate parties.

-50 hours (1 week) as a camp counselor in the Om Squad Summer Camp.

- Worked at the UPS store in Morrisville Saturdays from 10 AM to 5 PM. Previously worked at this location on weekdays from 4 PM to 6:30 PM.

**Awards/Honors**

-Honors Carolina

-Technology Student Association (State Conference) -
  -second place in the medical technology event (Jr year of HS)
  -first place in the Biotechnology Issues event (Jr Year of HS)
  -third place in the chapter team event in the state conference (Sr Year of HS)

-Future Problem Solvers (State Competition) - Second Place

-Science Olympiad (Regional Competition) – 3rd Place in Mousetrap Vehicle

-Summer Undergraduate Research Fellow

-First Year Fellow
Kaity Lohrei
322 Mountain Creek Lane, Taylorsville, NC 28681
Phone: (704) 692-0897   E-Mail: klohrei@live.unc.edu

Education

Alexander Central High School, Taylorsville, NC 2007-2011

University of North Carolina at Chapel Hill 2011-Present
Pursuing degree in Public Health (Health Policy and Management).
Graduation planned for spring 2015.

Work Experience

Intern at Bethlehem Animal Hospital, Hickory, NC August 2010-January 2011

Stadium Vendor at SeaWorld Orlando Parks and Entertainment, Orlando, FL May 2012-July 2012

Sales Associate at Universal Orlando Resorts, Orlando, FL May 2013-July 2013

Undergraduate Researcher and Lab Assistant, Department of Pathology and Laboratory Medicine, UNC School of Medicine August 2011-Present

Research Assistant, Department of Pediatrics, UNC School of Medicine August 2013-Present

Leadership Roles

Alexander Central Student Council Executive Board 2007-2011

Alexander Central Student Body Co-President 2011

Founded “Battlin’ for Bob” 2010
• Charitable organization aimed at raising awareness of brain cancer and raising funds for the Preston Robert Tisch Brain Tumor Center at Duke University

Varsity Softball Co-Captain 2010-2011

Women’s Varsity Cross Country and Indoor Track Captain 2010-2011

Campus Outreach Raleigh 2011-Present

Executive Board of NeuroCare 2012-Present
• NeuroCare works to educate the student body and local community about neurological disorders and their prevention and interact with those affected by neurological disorders.
Honors/Activities

National Beta Club 2008-2011
Alexandar Central High School Valedictorian 2011
Member of the NC 4A State Championship Softball Team 2009 and 2011
Alternate for the Morehead-Cain Scholars Program 2011
Finalist for the NC Fellows Program 2012
Semi-finalist for the Robertson Scholars Program 2012
Admitted to the Gillings School of Global Public Health BSPH program 2013