

Farah Nikhath Bader

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EDUCATION

George Mason University, Ph.D. in Neuroscience (Expected) May 2021

Johns Hopkins Bloomberg School of Public Health, (JHSPH), Master's in Public Health May 2008
Concentration: Humanitarian Assistance and Health and Human Rights
Certificate: Public Mental Health Research

Emory University, Bachelor of Science in Neuroscience and Behavioral Biology May 2004

PROFESSIONAL EXPERIENCE

George Mason University, Department of Psychology September 2016-present

Graduate Research Assistant, Lab of Dr. Craig McDonald

Conducted research related to early sensory processing, error-processing, decision-making and the brain's performance monitoring system

- Performed transcranial direct current stimulation (anodal, cathodal, sham) on student volunteers performing a sensory discrimination task
- Assisted with electroencephalography set-up for experiments

Graduate Research Assistant, Lab of Dr. Martin Wiener

Conducted research on the neural basis of how time is measured and perceived

- Assessed timing perception in a sample of healthy controls for a traumatic brain injury study
- Designed a timing reproduction task and tested it in a participants receiving transcranial magnetic stimulation in the prefrontal cortex and the angular gyrus

Fogarty International Center (FIC), National Institute of Health (NIH) 2009 - present

Division of International Training and Research (DITR) (Bethesda, MD)

Public Health Analyst

Provides scientific, technical, and administrative analysis and support for a portfolio of FIC grants

Program Analysis and Reporting Activities:

- Analyzes grant-level and bibliometric data to inform the yearly strategic program planning process
- Formulates responses for Congressional, federal, and general public reporting requests on the FIC grant portfolio with a concentration in mental health and neuro-related areas (eg. epilepsy and Alzheimer's Disease)
- Generates reports on joint collaborative activities between FIC and other NIH Institutes or other U.S. government agencies
- Leads scientific characterization efforts for the Research, Condition, and Disease Categorizations and yearly women's health groupings and facilitates the HIV/AIDS classification efforts
- Liaises with FIC's Information Technology Office to clean and maintain the integrity of FIC's scientific reporting databases and with the FIC budget and communications office to provide programmatic and financial data on FIC initiatives
- Authors scientific briefing documents on FIC and NIH activities for high-level global health meetings
- Solicits supplemental funding in the range of 30K-100K from other Institutes for FIC's small grant research programs, specializing in the behavioral and social sciences

Program Support Activities:

Global Brain and Nervous Systems Disorder Research Program:

Initiative funds collaborative research and research capacity building in neuroscience in low- and middle-income country settings

- Co-led a 390+ attendee symposium to commemorate the anniversary and grantee accomplishments of a 10-year FIC program in global neuroscience. Contributions include developing a budget, reviewing abstracts, facilitating the development of the scientific program, and providing logistical support
- Conducts in-depth administrative and financial analysis of grant applications and progress reports
- Ensures grant applications are compliant with NIH grants policy

- Assists with managing the program: recruits potential applicants to the funding announcement, counsels on proposal ideas and budget, and steers the applications through the review process, award issuance, and yearly progress review

Research Activities:

Water, Sanitation, Health, and Hygiene Interventions in a Northern Pakistani Village

Internal FIC grant supported by the US-Pakistan Science and Technology Cooperation Program to study changes in incidence of diarrhea and pneumonia in children and in young adults that were assessed 25 years ago. This study also examines differences in water quality and sanitation.

- Analyzes the current demographics, health outcomes, education, psychological functioning, and socio-economic status data of young adults who were former participants of the original surveillance study at 5 years of age and under.
- Facilitates linking of data collected from the previous surveillance to the follow-up study

Center for Disaster and Refugee Response, Johns Hopkins Bloomberg

January 2008

School of Public Health (Amman, Jordan)

Student Investigator for a project funded by the International Medical Corps, Amman, Jordan

- Achieved capacity building by facilitating the training of 12 Iraqi physicians in sampling methods, initial piloting in clinics and administration of the survey in the clinics
- Facilitated the design, development, and implementation of a survey instrument to evaluate the health needs of 664 displaced Iraqi refugees presenting to 7 clinics served by 2 NGOs in Amman, Jordan
- Evaluated resultant survey responses and authored article on mental health, demonstrating and presenting an unmet need for services in female refugees, prior residents of Baghdad, and refugees who have been displaced for 4+ years

United States Army Medical Research Institute of Chemical Defense (Abingdon, MD)

2005- 2007

Post-Graduate Research Fellow

Managed projects related to the effectiveness of neuro-protection and treatment from chronic, low dose exposures to nerve agents (VX,GB, or GF) in a guinea pig model

- Performed biochemical tests and behavioral assessments to detect signs of nerve agent poisoning and to test the utility of antidotal therapy
- Conducted statistical analysis of behavioral data garnered from a battery of tests related to autonomic, motor, sensory, and gait abnormalities in intoxicated animals
- Trained personnel on the procedure for behavioral assessments and the use of electrophysiological data acquisition software (SPIKE 2) to detect seizure activity

National Institute of Neurological Disorders and Stroke-NIH (Bethesda, MD)

2004 -2005

Post-Baccalaureate Fellow / Pre-IRTA

Collaborated with research personnel to investigate neurophysiologic data generated from a network of structures implicated in motor control from dopamine-depleted rats to understand alterations in information processing

- Examined and analyzed interrelationships between basal ganglia structures using sub-cortical EEG
- Correlated low-frequency oscillations in the basal ganglia structures to respiratory activity and heart rate variation
- Analyzed EMG and EEG traces from a human self-paced voluntary tapping study
- Conducted literature searches on depolarization block in midbrain structures

Emergency Medicine Department, Emory Medical School (Atlanta, GA)

2004

Research Assistant

Provided project support for experimentation to determine the therapeutic value of progesterone to treat blunt traumatic brain injury

- Compiled background literature on the effect of food restriction on outcomes related to brain injury
- Assisted in small rodent surgery that modeled blunt trauma to the brain

VOLUNTEER AND COMMUNITY SERVICE EXPERIENCE

GMU Neuroscience Graduate Student Association

2017-2018

President

Mid-Atlantic South Asians Leveraging Assets (MASALA) Giving Circle

2014-2015

Team member of a Washington DC-based grassroots organization seeking to advance the work of U.S. nonprofit organizations serving disadvantaged South Asian communities in the Mid-Atlantic region

- Assisted in constructing an announcement for requesting grant proposals, recruited interest in South-Asian serving community organizations, selected winners, and participated in post-award follow-up
- Wrote as a Guest Blogger on the topic of brain mapping (<http://chaicounselors.org/news/>) for Counselors Helping (South) Asian/Indians, a MASALA award recipient

Hospice of Central Georgia Bereavement Volunteer

2009- 2009

Provided individualized and group grief support and companionship to bereaved Hospice patients

- Conducted assessments via home visits and phone calls and compiled grief-related resource material for monthly grief group of parents who had lost children

Emory First Responders (Atlanta, GA)

2003-2004

Emergency Medical Technician-Intermediate Level

Conducted medical case management services and responded to emergencies on the Emory campus

- Performed clinical assessments and interacted with 2-4 patients/week who are 18+ years of age in crisis situations
- Conducted formalized interviews and administered proper medical documentation

AWARDS AND CERTIFICATES

Recognition of the DITR Coding Team Initiative and Efforts (FIC)	2014
Team Award for Outstanding Contributions to the 10th Brain Disorders Anniversary Symposium (FIC)	2014
Individual Merit Award for Recognition of Significant, High-quality Contributions to the Grants Management Team During a Period of Understaffing (FIC)	2011
Director's Merit Award for the Global Health Clinical Research Alumni Symposium Team (FIC)	2010
American Recovery and Reinvestment Act Team Award (FIC)	2009
Master's in Public Health Field Experience Group Award (JHSPH)	2008
Dean's List (Spring Semesters) (Emory)	2000, 2004
Nationally Registered Emergency Medical Technician (Emory)	2003

PUBLICATIONS

Bader, F., Sinha, R., Leigh, J., Goyal, N., Andrews, A., IMC Study Team, Valeeva, N., Sirois, A., Doocy, S. Psychosocial Health in Displaced Iraqi Care-Seekers in NGO Clinics in Amman, Jordan: An Unmet Need. *Pre-Hospital and Disaster Medicine*. 2009 Jul-Aug 24(4):312-320

Boothby N, Wessells M, Williamson J, Huebner G, Canter K, Rolland EG, Kutlesic V, **Bader F**, Diaw L, Levine M, Malley A, Michels K, Patel S, Rasa T, Ssewamala F, Walker V. What are the most effective early response strategies and interventions to assess and address the immediate needs of children outside of family care? *Child Abuse Negl*. 2012 Oct;36(10):711-21

Rosenthal J, Jessup C, Felknor S, Humble M, **Bader F**, Bridbord K. International Environmental and occupational health: From individual scientists to networked science Hubs. *Am J Ind Med*. 2012 Dec;55(12):1069-77.

POSTER ABSTRACTS

Bader, F. (presenter), Jung, B., Ezeala, Y., Frary, S., Chandler, S., Koenings, M., Ferrara, T., O'Donnell, J., McDonough, M., Shih, T.-M. The Effects of Medical Countermeasures on Survival and Behavior of Guinea Pigs Exposed to Repeated Doses of GB and VX. Poster Abstract, *Bioscience Review*, Hunt Valley, MD June 4-9, 2006.

Bader, F (presenter), Agurs-Collins, T., Diaw, L., Divi, R., King, J., King, R., Light, E., Michels, K., Mahabir, S., Maholmes, V., McDonald, P., Reilly, M., Riddle, R., Spotts, E., Tully, L., Tyson, F., Weinberg, N., Weglicki, L. From Conception to Issuance: Using Analytic Tools to Inform the Development of a Funding Opportunity in Social and Behavioral Research, Poster Abstract, NIH Portfolio Analysis Meeting, July 2014

Shah, Wasiat (presenter); **Bader, Farah**; Hussain, Ejaz; Jahan, Assis, Sikandar, Faran, Wasim, Saba. Description of a cohort of adolescents and young adults from Oshikhandass village, Gilgit, Pakistan: Health Status, Socio-economic status and educational attainment, 9th Health Research Assembly, Poster Abstract, Aga Khan University, Pakistan, April 2015

PRESENTATIONS

NIH Basics and Grants Policy at the FIC Research Administrator's Meeting, Cleveland, Ohio	2011
OppNet (trans-NIH behavioral and social sciences committee) Research Gap Analysis on Epigenetics and Behavior in NIH's Portfolio, Bethesda, MD	2013
Young Adult Follow-Up Study Summary to the Higher Education Council of Pakistan and the National Academy of Sciences personnel during a delegation visit to FIC, Bethesda, MD	2015

SKILLS

Computer: SPSS, basic STATA and SigmaStat, eRA Modules (Grants Management Module, Research, Condition, and Disease Categorizations (RCDC), Query, View, Report Database (QVR), IN-SPIRE (text-mining), Spike 2-Electrophysiological Software, PsychoPy
Language: Intermediate Urdu, Familiarity with Spanish

MEMBERSHIPS

American Public Health Association	2008
Member of local DC Chapter of Society for Neuroscience	2013-present