

Farah Nikhath Bader, Ph.D.

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Fairfax, VA

EDUCATION

George Mason University, Ph.D. Interdepartmental Program in Neuroscience August 2022

Dissertation: Human Time Awareness and Feedback-Driven Improvements of Time Reproduction

Mentor: Dr. Martin Wiener

GMU Neuroscience Graduate Student Organization President (2017), Vice-President (2018)

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

Dean's List (Spring 2000, 2004)

PROFESSIONAL EXPERIENCE

George Mason University, Department of Psychology (Fairfax, VA) June 2017- August 2022

Graduate Research Assistant, Spatial Temporal Action Representation Lab

(Mentor: Dr. Martin Wiener)

- Conducted PhD research on temporal metacognition, learning to time, and the impact of feedback on time perception and performed a simultaneous fMRI-EEG study to investigate these areas
- Designed experiments using Psychopy and analyzed data using MATLAB

Course Instructor, Department of Psychology, GMU

- Taught Cognitive Psychology, Biopsychology, and Murder, Mystery and Madness courses to undergraduates

Graduate Teaching Assistant, Interdepartmental Program in Neuroscience, GMU August 2018-May 2021

- Graded papers and generated study guides/quizzes for in-person (Introduction to Neuroscience 101 and writing seminar) and online Molecular, Developmental and Systems Neuroscience course
- Guided students on their written critical analysis of peer-reviewed journal articles with feedback

Graduate Research Assistant, Lab of Dr. Craig McDonald, GMU September 2016- June 2017

- Performed research related to early sensory processing, error-processing, decision-making and the brain's performance monitoring system using a sensory discrimination task, EEG, and transcranial direct current stimulation

Fogarty International Center (FIC), National Institute of Health (NIH) August 2009 – August 2016

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

Public Health Analyst (GS-12)

- Provided scientific, technical, policy, and administrative analysis for a large portfolio of FIC grants
- Evaluated grantee progress and outcomes by writing reports on scientific content, bibliometrics, and funding levels of FIC grants and reported outcomes to inter- and interagency partners
- Counseled grantees on formulating research objectives, applying to funding opportunities, and progress reports for neuroscience programs
- Liaised with FIC's Communications office to provide quality content for research advances and features stories on Fogarty grantee accomplishments and publications in the newsletter, website and other public relations media
- Served as FIC's Representative for Research, Condition, and Disease Categorization (RCDC), the scientific characterization efforts of grants for public reporting categories
- Performed in-depth financial and administrative analysis to ensure grantees are compliant with NIH policy in their yearly progress reports
- Prepared oral presentations to extramural grantees and NIH staff
- Planned, coordinated, and assessed program for grantees of a neurosciences research initiative designed to build research capacity in low-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

- Analyzed research data from a 25-year longitudinal water and sanitation study on diarrhea and pneumonia in young kids in Northern Pakistan

Center for Disaster and Refugee Response, Johns Hopkins Bloomberg School of Public Health (Amman, Jordan) December 2007 - January 2008
Student Investigator

- 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
- Authored article on mental health using survey responses

United States Army Medical Research Institute of Chemical Defense (Abingdon, MD) May 2005- June 2007
Post-Graduate Oak Ridge Institute Research Fellow

- Managed projects using EEG, behavioral, and biochemical assessments related to the effectiveness of neuro-protection and treatment from chronic, low dose exposures to nerve agents in a guinea pig model

National Institute of Neurological Disorders and Stroke-NIH (Bethesda, MD) May 2004 – May 2005
Post-Baccalaureate Fellow / Pre-IRTA

- Investigated neurophysiologic data generated from a network of structures implicated in motor control from dopamine-depleted rats to understand alterations in information processing

Emergency Medicine Department, Emory Medical School (Atlanta, GA) August 2003-January 2004
Research Assistant

- Tested the therapeutic value of progesterone to treat blunt traumatic brain injury with small rodent TBI model
- Compiled background literature on the effect of food restriction on outcomes related to brain injury

VOLUNTEER AND COMMUNITY SERVICE EXPERIENCE

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

AWARDS AND CERTIFICATES

GMU Summer Research Fellowship Office of the Provost	2020,2022
GMU Center for Adaptive Systems and Brain-Body Interactions (CASBBI) Summer Award	2019
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
Nationally Registered Emergency Medical Technician (Emory)	2003

PUBLICATIONS

Bader, F., & Wiener, M. (2021). Awareness of errors and feedback in human time estimation. *Learning & Memory* 28(5), 171–177.

Bader F, Kochen WR, Kraus M, Wiener M. The dissociation of temporal processing behavior in concussion patients: Stable motor and dynamic perceptual timing. *Cortex.* 2019 May 7;119:215-230.

Wiener, M., Zhou, W, **Bader, F,** Joiner, WM. Movement Improves the Quality of Temporal Perception and Decision-making. *eNeuro.* 2019 August 20; 6(4).

Mioni G, Shelp A, Stanfield-Wiswell CT, Gladhill KA, **Bader F,** Wiener M. Modulation of Individual Alpha Frequency with tACS shifts Time Perception. *Cereb. Cortex Commun.* 2020 Sep 8;1(1)

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), Mohammad, A. , Martin Wiener. An fMRI-EEG Investigation of Feedback Driven Improvement of Time Reproduction, Poster Abstract, Cognitive Neuroscience Society, San Francisco, April 2022

Bader, F (presenter), Mohammad, A. , Martin Wiener. The Effect of Feedback and Reinforcement Learning on Time Perception, Poster Abstract, 2nd Annual Timing Research Forum II, Queretaro, Mexico, October 2019.

Bader, F. (presenter), Kochen, W., Wiener, M., Kraus, M. Dissociation between Perceptual and Motor Timing in Concussion, George Mason University Neuroscience Graduate Student Organization Welcome Back Picnic, Fairfax, VA. Sept. 25, 2018

Paquette, N.A. (presenter), Buzzell, G.A., Beatty, P.J., **Bader, F.**, Sinclair, P., Craven, K., Greenwood, P.M., Peterson, M.S. McDonald, C. Stimulating the Performance Monitoring Network: The Long and Short of it. Society for Neuroscience poster abstract, Washington D.C. 2017

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

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

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.

PRESENTATIONS

GMU 3-Minute Thesis Competition	2021
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
OppNet Research Gap Analysis on Epigenetics and Behavior in NIH's Portfolio, Bethesda, MD	2013
NIH Basics and Grants Policy at the FIC Research Administrator's Meeting, Cleveland, Ohio	2011

SKILLS

Computer: Microsoft PowerPoint, Excel, SPSS, JASP, basic STATA and SigmaStat, eRA Modules (Grants Management Module, Research, Condition, and Disease Categorizations (RCDC), Introduction to Grants Management Classes through Management Concepts, Query, View, Report Database (QVR), IN-SPIRE (text-mining), RePORTER, Spike 2-Electrophysiological Software, PsychoPy2, Matlab, Python, BrainVision Analyzer, BrainVision Recorder, SPM12

Language: Intermediate Urdu, Familiarity with Spanish

MEMBERSHIPS

American Public Health Association	2008
Society for Neuroscience	2013-present
Timing Research Forum	2019-present