

**Education**

West Potomac High School 2012

Honors Graduate, Advanced Diploma

George Mason University Undergraduate 2016

Bachelor of Science in Neuroscience Honors Graduate, Magna Cum Laude, Chemistry and Psychology Minor

American University Fall 2019 – **current**

PhD in Neuroscience

**Relevant Experience**

Krasnow Institute of Advanced Study: research assistant (April 2013 – May 2014)

Dr. Theodore C. Dumas, Lab PI, tdumas@gmu.edu

Developmental Psychology in grade school children research assistant (September 2014 – May 2015)

Dr. Robert Pasnak, Lab PI, rpsnak@gmu.edu, 703-993-1354

INOVA Neuroscience Biomedical Internship (September 2014 – May 2015)

Sarah Anderson, Administrative Coordinator, Sarah.Anderson@inova.org, 703-269-4750

George Mason University Student Ambassador (January 2015 – May 2016)

John Cicchetti, Director, jcicche2@gmu.edu, 703-993-3112

FDA Research Internship, ORISE Fellow (Nov 2014 – Aug 2019, full time fellow)

Center of Devices and Radiological Health, Department of Biomedical Physics, Neurophysiology lab.

Dr. Meijun Ye, Lab PI, Meijun.Ye@fda.hhs.gov, 301-796-5197

Dr. Zane Arp, Division Director, Zane.Arp@fda.hhs.gov

American University, graduate student teaching assistant for psychology department (Aug 2019 – **current**)

Dr. Maria Gomez, mgomez@american.edu, (202) 885-2681

**Honors & Awards**

George Mason University Deans List 2012 – 2016

Dean's Undergraduate Research Award 2015 with perfect score from judges

Outstanding Neuroscience Senior Award and Neuroscience Outstanding Undergraduate Research Award 2016

**Select Posters and Publications**

- Jang, H., Huang, S., Hammer, D. X., Wang, L., **Rafi, H.**, Ye, M., ... Fisher, J. A. N. (2017). Alterations in neurovascular coupling following acute traumatic brain injury. *Neurophotonics*, 4(4), 045007. <https://doi.org/10.1117/1.NPh.4.4.045007>
- **Rafi, H.**, Solarana, K., Myers, M.R., Welle, C.G., Ye, M., Evaluation of neuroinflammation and behavioral outcomes following high intensity therapeutic ultrasound to the brain, *135.08 / U11, Society for Neuroscience Conference*, November 2018
- Ye, M., Solarana, K., **Rafi, H.**, Patel, S., Nabili, M., Liu, Y., ... Welle, C. (2019). Longitudinal Functional Assessment of Brain Injury Induced by High-Intensity Ultrasound Pulse Sequences. *Scientific Reports*, 9(1), 1–17. <https://doi.org/10.1038/s41598-019-51876-5>
- Solarana, K., Ye, M., Gao, Y., **Rafi, H.**, Hammer, D.X., “Longitudinal multimodal assessment of neurodegeneration and 2 vascular remodeling correlated with signal degradation in 3 chronic cortical microelectrodes,” accepted for publication in *Neurophotonics*
- Solarana, K., Ye, M., Gao, Y., **Rafi, H.**, Hammer, D.X., “Longitudinal multimodal assessment of neurodegeneration and vascular remodeling correlated with signal degradation in chronic cortical silicon microelectrodes,” accepted for publication in *Neurophotonics*