






Shady El Damaty, M.Sc. | Ph.D. Candidatese394@georgetown.edu +12026874076 seldamat.github.io 

 Center for Functional & Molecular Imaging
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Education & Training

- **Georgetown University** Washington, DC
Ph.D. Neuroscience *2013 - Present*
 - Principal investigator on National Institute of Justice (NIJ)-funded dissertation grant to study interaction of community violence with development of striatal-prefrontal cortical connectivity to predict future antisocial attitudes and behavior.
 - Research assistant on NIH/NIAA-funded R01 on neurocognitive developmental factors predicting early onset of substance use in adolescence. **Qualifying Exam:** *A Balancing Act: Lexical System Design & Communication Rate Capacity*
- **Drexel University, School of Biomedical Engineering** Philadelphia, PA
M.Sc. in Biomedical Science *2011 - 2013*
 **Master's Thesis:** *Cohort-Selective Gamma Rhythms Support Hierarchical Visual Processing During Word Recognition*
- **University of Rochester** Rochester, NY
B.Sc. in Neuroscience *2007 - 2011*

Awards & Honours

Georgetown Medical Center Graduate Student Research Day 1st Place Presentation 2017
 Georgetown Graduate School of Arts & Sciences Travel Award 2017
 Georgetown Medical Center Graduate Student Organization Travel Award 2017
 National Science Foundation Modeling Developmental Change Travel Award 2017
 Georgetown Graduate School of Arts & Sciences Travel Award 2015
 New York Academy of Science Graduate Student Trainee 2014-2017
 Association for the American Advancement of Science Graduate Student Trainee 2014-2017
 Georgetown University Medical Center NIH T32 Graduate Training Fellow 2013-2015
 Drexel University Dean's Fellowship 2011-2013
 German Academic Exchange Service RISE Professional Internship (*did not accept*) 2013
 Meliora Weekend Student Showcase 2010
 1st Place SURF Oral Presentation Competition 2010
 Summer Undergraduate Research Fellowship 2010
 University of Rochester Chemistry REU Program 2009
 McNair Post-Baccalaureate Achievement Program 2008-2011

Active Fundings & Grants Awarded

-  Pattern Classification of Neurocognitive & Socio-Emotional Developmental Factors Underlying Violent Outcomes in Adolescents

National Institute of Justice

Award Amount: \$100,000







Funding Active: 2016 - *Present*

U.S. Department of Justice: Office of Justice Programs

2016-CX-0019-R2

DUNS# 049515844

Teaching Experience & Materials

- Core Foundations in Neuroscience I** Georgetown University Medical Center
Graduate Teaching Assistant Aug 2017 - Jan 2018
 -  Guided Tutorial on the Biophysical Foundations of Neural Electrophysiology
- Drugs Brain & Behavior** Georgetown University Medical Center
Graduate Student Instructor 16 February 2017
 -  Injury & Recovery of the Central Nervous System
- Drugs Brain & Behavior** Georgetown University Medical Center
Graduate Student Instructor 26 March 2015
 -  Injury & Recovery of the Central Nervous System
- Core Foundations in Neuroscience I** Georgetown University Medical Center
Graduate Teaching Assistant Aug 2014 - Jan 2015
 -  Biophysical Foundations of Neural Electrophysiology
 -  Introduction to CNS Motor Systems
 -  Introduction to Cognitive Neuroscience
- Aerospace Summer STEM Camp** NASTAR Center
Graduate Student Instructor Jun - Aug 2012

Peer-Reviewed Publications

- El Damaty S.**, Martin, K., McQuaid G., Darcie, V.L., Rose, E.J., Fishbein, D.H., and VanMeter, J.W. *Altered Resting State Functional Connectivity Predicts Adolescent Drug Use*. [in prep]
- Viacava, K.R. **El Damaty S.**, Stevens, B.W., Rose, E.J., Fishbein, D.H., and VanMeter, J.W. Awareness of Alcohol Advertising and Limbic-Frontal Activations During an Emotional Counting Stroop Task in Adolescents. [internal review]
- El Damaty**, S. Wahedi L., and VanMeter, J.W. Modulating Bargaining Behavior in the Ultimatum Game Using Subliminal Affective Visual Primes. [in prep]
- El Damaty, S.** and Maguire, J. *A Neural Architecture for Unsupervised Temporal Pattern Recognition*. NIPS. 2016. [rejected, resubmitting]

- Zhang, K., **El Damaty, S.** and Fasan, R. *P450 Fingerprinting Method for Rapid Discovery of Terpene Hydroxylating P450 Catalysts with Diversified Regioselectivity*. J. Am. Chem. Soc., 2011, 133 (10), pp 3242–3245.

Conference Papers & Presentations

- 📄 El Damaty, McQuaid G., S. Martin, K., Darcie, V.L., Fishbein, D.H., and VanMeter, J.W. *Intrinsic Functional Connectivity of the Striatum in Developing Adolescents*. Computational Cognitive Neuroscience. New York, NY. Sep 2017.
- El Damaty, Shady & Martin, Kelly & McQuaid, Goldie-Ann & Darcie, Valerie & Rose, Emma J.L., & Fishbein, Diana and John Vanmeter. Functional Connectivity Predicts the Emergence of High Violence Proneness in Developing Adolescents. Flux Congress. St. Louis, MO. Sep 2016.
- Vanmeter, John & El Damaty, Shady & Martin, Kelly & McQuaid, Goldie-Ann & Darcie, Valerie & Rose, Emma J.L. and Fishbein, Diana. Adolescent Substance Use Predicted by Pre-use Differences in Functional Connectivity. Flux Congress. St. Louis, MO. Sep 2016.
- Darcie, Valerie L., & El Damaty, Shady, Fishbein, Diana, Rose, Emma J., and John Vanmeter. DHA Status is Related to Prefrontal-Cortex Mediated Impulse Control in Adolescents. Experimental Biology. San Diego, CA. Apr 2016.
- El Damaty, Shady & James Maguire. Temporal Pattern Recognition with a Time Delay Neural Network. 30th Annual Machine Learning Conference at the New York Academy of Science. New York, NY. Mar 2016.
- El Damaty, Shady & Wahedi, Laila and John Vanmeter. Priming Behavior in the Ultimatum Game with Subliminal Affect. Society for Neuroscience. Chicago, IL. Oct 2015.
- Wahedi, Laila & El Damaty, Shady and John Vanmeter. Priming Emotions to Dissociate Affective Contributions to Decision Making in the Ultimatum Game. Organization for Human Brain Mapping. Honolulu, HI. Oct 2015.