

CURRICULUM VITAE
The Johns Hopkins University School of Medicine

June 2021

Raha Dastgheyb, Ph.D**DEMOGRAPHIC AND PERSONAL INFORMATION****Current Appointment**

2020-present Instructor, Department of Neurology, School of Medicine, Johns Hopkins University, Baltimore, MD

Personal Data

Department of Neurology
600 N Wolfe St.
Baltimore, MD 21287-7613
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Education and Training

- 2004 - 2008 B.S., Biomedical Engineering, minor Computer Science, University of Virginia, Charlottesville, VA *Thesis: Evaluation of a Device for Quantification of Spasticity in Cerebral Palsy*
- 2008 - 2015 Ph.D., Biomedical Engineering, Drexel University, Philadelphia PA, *Thesis: Mechanisms of Axonal Pathology in Traumatic Brain Injury*
- 2015 - 2016 Post-Doctoral Fellow, Drexel University, School of Biomedical Engineering, Science & Health Systems, Cellular Mechanics Lab, Philadelphia, PA
- 2016 – 2019 Post-Doctoral Fellow, Department of Neurology, School of Medicine, Johns Hopkins University, Baltimore, MD

Professional Experience

- 2019 – 2020 Research Associate, Department of Neurology, School of Medicine, Johns Hopkins University, Baltimore, MD

PUBLICATIONS:**Original Research [OR]**

- Dastgheyb, R.**, & Gordeuk, V. (2005). Pulmonary hypertension in Chuvash polycythemia. *Ethnicity and Disease*, 15(3 SUPPL. 4).
- Chaudhuri, A. D., **Dastgheyb, R. M.**, Yoo, S. W., Trout, A., Talbot Jr, C. C., Hao, H., ... & Haughey, N. J. (2018). TNF α and IL-1 β modify the miRNA cargo of astrocyte shed extracellular vesicles to regulate neurotrophic signaling in neurons. *Cell death & disease*, 9(3), 1-18. *I was responsible for the all of the electrophysiology experiments, analysis, and visualization*
- Miller, S. J., Philips, T., Kim, N., **Dastgheyb, R.**, Chen, Z., Hsieh, Y. C., ... & Rothstein, J. D. (2019). Molecularly defined cortical astroglia subpopulation modulates neurons via secretion of Norrin. *Nature neuroscience*, 22(5), 741-752. *I was responsible for the all of the electrophysiology experiments, analysis, and visualization*
- Taga, A., **Dastgheyb, R.**, Habela, C., Joseph, J., Richard, J. P., Gross, S. K., ... & Maragakis, N. J. (2019). Role of Human-Induced Pluripotent Stem Cell-Derived Spinal Cord Astrocytes in the Functional Maturation of Motor Neurons in a Multielectrode Array System. *Stem cells translational medicine*, 8(12), 1272-1285. *I participated in all of the electrophysiological experiments and programmed the software to do the analysis*
- Rubin, L. H., Saylor, D., Nakigozi, G., Nakasujja, N., Robertson, K., Kisakye, A., **Dastgheyb, R.**, ... & Sacktor, N. (2019). Heterogeneity in neurocognitive change trajectories among people with HIV starting antiretroviral therapy in Rakai, Uganda. *Journal of neurovirology*, 25(6), 800-813. *I participated in the follow-up analysis and data visualization*
- Dastgheyb, R. M.**, Sacktor, N., Franklin, D., Letendre, S., Marcotte, T., Heaton, R., ... & Haughey, N. J. (2019). Cognitive trajectory phenotypes in human immunodeficiency virus infected patients. *Journal of acquired immune deficiency syndromes*, 82(1), 61.
- Chen, S., Datta-Chaudhuri, A., Deme, P., Dickens, A., **Dastgheyb, R.**, Bhargava, P., ... & Haughey, N. J. (2019). Lipidomic characterization of extracellular vesicles in human serum. *Journal of circulating biomarkers*, 8, 1849454419879848. *I designed and wrote the software to identify and filter the lipids meeting reproducibility criteria*
- Rubin, L. H., Li, Y., Fitzgerald, K. C., **Dastgheyb, R.**, Spence, A. B., Maki, P. M., ... & Williams, D. W. (2020). Associations between Antiretrovirals and Cognitive Function in Women with HIV. *Journal of Neuroimmune Pharmacology*, 1-12. *I participated in manuscript discussions and review*

9. Jha, M. K., Lee, Y., Russell, K. A., Yang, F., **Dastgheyb, R. M.**, Deme, P., ... & Morrison, B. M. (2020). Monocarboxylate transporter 1 in Schwann cells contributes to maintenance of sensory nerve myelination during aging. *Glia*, 68(1), 161-177. *I was responsible for the lipidomic analysis and visualization*
10. Williams, D. W., Li, Y., **Dastgheyb, R.**, Fitzgerald, K. C., Maki, P. M., Spence, A. B., ... & Rubin, L. H. (2020). Associations between antiretroviral drugs on depressive symptomatology in homogenous subgroups of women with HIV. *Journal of Neuroimmune Pharmacology*, 1-14. *I participated in manuscript discussions and review and created the abstract figure*
11. Rubin, L. H., Xu, Y., Norris, P. J., Wang, X., **Dastgheyb, R.**, Fitzgerald, K. C., ... & Williams, D. W. (2020). Early Inflammatory Signatures Predict Subsequent Cognition in Long-Term Virally Suppressed Women With HIV. *Frontiers in integrative neuroscience*, 14, 20. *I was responsible for initial data cleaning and filtering, participated in manuscript discussions and review, and created the manuscript figures*
12. Li, Z., Moniruzzaman, M., **Dastgheyb, R. M.**, Yoo, S. W., Wang, M., Hao, H., ... & Haughey, N. J. (2020). Astrocytes deliver CK1 to neurons via extracellular vesicles in response to inflammation promoting the translation and amyloidogenic processing of APP. *Journal of extracellular vesicles*, 10(2), e12035. *I created the software to quantify the tri-color colocalization and participated in manuscript review*
13. Fitzgerald, K. C., Maki, P. M., Xu, Y., Jin, W., **Dastgheyb, R.**, Williams, D. W., ... & Rubin, L. H. (2020). Factors Predicting Detrimental Change in Declarative Memory Among Women With HIV: A Study of Heterogeneity in Cognition. *Frontiers in psychology*, 11, 2606. *I participated in manuscript discussions and review*
14. Kamkwala, A. R., Wang, K., O'Halloran, J., Williams, D. W., **Dastgheyb, R.**, Fitzgerald, K. C., ... & Rubin, L. H. (2021). Starting or switching to an integrase inhibitor-based regimen affects PTSD symptoms in women with HIV. *AIDS and Behavior*, 25(1), 225-236. *I participated in manuscript discussions and review*
15. ***Dastgheyb, R. M.**, Yoo, S. W., & Haughey, N. J. (2020). MEAnalyzer—a Spike Train Analysis Tool for Multi Electrode Arrays. *Neuroinformatics*, 18(1), 163-179. ***Corresponding Author**
16. Rubin, L. H., Sundermann, E. E., **Dastgheyb, R.**, Buchholz, A. S., Pasipanodya, E., Heaton, R. K., ... & Moore, D. J. (2020). Sex Differences in the Patterns and Predictors of Cognitive Function in HIV. *Frontiers in neurology*, 11. *I participated in manuscript discussions and review and was responsible for the clustering analysis and visualization*
17. Rubin, L. H., Gustafson, D. R., Warrior, L., Sheira, L., Fitzgerald, K. C., **Dastgheyb, R.**, ... & Weiser, S. D. (2021). Dietary intake is associated with neuropsychological impairment in women with HIV. *The American Journal of Clinical Nutrition*. *I participated in manuscript discussions and review*
18. Aparicio, J. M., Xu, Y., Li, Y., Colantuoni, C., **Dastgheyb, R.**, Williams, D. W., ... & Rubin, L. H. (2021). Plasma microRNAs are associated with domain-specific cognitive function in people with HIV. *AIDS*. *I participated in manuscript discussions and review and created the figures*
19. O'Halloran, J. A., Wang, K., Spence, A. B., Williams, D. W., **Dastgheyb, R.**, Fitzgerald, K. C., ... & Rubin, L. H. (2021). Integrase Strand Transfer Inhibitor Start or Switch Impacts Learning in Women With HIV. *JAIDS Journal of Acquired Immune Deficiency Syndromes*, 86(5), 593-599. *I created the figures and participated in manuscript discussion and review*
20. **Dastgheyb, R. M.**, Buchholz, A. S., Fitzgerald, K. C., Xu, Y., Williams, D. W., Springer, G., ... & Rubin, L. H. (2021). Patterns and Predictors of Cognitive Function Among Virally Suppressed Women With HIV. *Frontiers in neurology*, 12.

Review Articles [RA]

None

Case Reports [CR]

None

Book Chapters, Monographs [BC]

None

Books, Textbooks [BK]

None

FUNDING

EXTRAMURAL Funding (Show as current, pending, previous under each subcategory and follow format above.)

Pending

09/01/21-08/31/26 Neurocognitive correlates of the clinical endophenotype of Polycystic Ovary Syndrome(PCOS)
 NIH/NIA
 PI: Huddleston
 Role: co-I

Current

05/08/17 – 2/28/22 JHU NIMH center for novel therapeutics for HIV-associated cognitive disorders
 P30MH075673
 NIH/NIMH

Award: \$1,005,852 (annual direct)
Multi-PI: Haughey, Rubin, Sacktor
Role: Investigator, 15%

- 04/1/19—2/31/25 Clinical Research Sites for the MACS/WIHS Combined Cohort Study (MACS-WIHS-CCS)—Baltimore/Wash DC Center
U01HL146201
NIH/NIAID
Multi-PI: Margolick/Brown
Role: Investigator, 10%
- 07/01/19 –06/30/2022 Collaborative Research: New Bayesian Methods for Modeling the Effect of Antiretroviral Drugs on Depressive Symptomatology in HIV Patients
National Science Foundation (NSF)
Award Number: DMS1918854
Award: \$598,249
Role: Investigator, 5%
MPI: Xu, Rubin
- 01/01/20—12/31/21 The Development of an Astrocyte Hemichannel Blocker to Delay Spatial and Temporal Progression in ALS
AL190044
DOD
Award: \$1,005,852
Role: Co-I, 10%
- 04/01/20—03/31/22 Secondary Analysis of Cognitive Data from the Multi-Center AIDS Cohort Study(MACS) to Identify Longitudinal Change Phenotypes in HIV+ Individuals
1R03MH123290
NIH/NIMH
Award: \$100,000
Role: PI, 30%
- 7/1/20-6/30/25 Polypharmacy, Neurotoxicity, and Aging in Adults living with HIV
R01AG063659
NIH/NIA
Award: \$4,076,182
MPI: Ma, Letendre, Rubin
Role: co-I , 20%

Previous

- 09/15/15—05/31/20 Morphine disrupts the regulation of neuronal function mediated by astrocyte exosomes
NIH/NIDA
R01DA040390
PI: Haughey
Award: \$223,652
Role: Investigator
- 09/15/17—05/31/22 Exosomes: From biogenesis and secretion to the early pathogenesis of Alzheimer's disease
NIH/NIA
R01AG057420
PI: Haughey
Role: Investigator
- 07/01/19—03/31/24 Astrocyte Norrin, Norrie Disease and Neurodegeneration

NIH/NINDS
R01NS113565
Award: \$442,448
PI: Rothstein
Role: Co-I, 50%

INTRAMURAL Funding (*Show as current, pending, previous under each subcategory and follow format above.*)

Research Intramural Funding

Previous

01/01/20—12/21/20 Combined Systems Analysis and Predictors of Neurocognitive Trajectory in HIV+ Individuals
NIH/NIAID CFAR Pilot
P30AI094189
Award : \$50,000
Role: PI

EDUCATIONAL ACTIVITIES (*in chronological order, earliest first by start date under each subcategory*)

Educational Focus

Teaching

Classroom instruction

2013 – 2014 Graduate Teaching Assistant, Undergraduate level, Programming & Modelling , Drexel University, Philadelphia PA
2009 – 2013 Graduate Teaching Assistant, Undergraduate level, Experimental and Biomechanics Lab, Drexel University, Philadelphia PA
2010 – 2011 Graduate Teaching Assistant, Undergraduate level, Junior Design , Drexel University, Philadelphia PA
2010 Graduate Teaching Assistant, Undergraduate level, Medical Sciences I, Drexel University, Philadelphia PA
2010 Graduate Teaching Assistant, Undergraduate level, Body Synthetic , Drexel University, Philadelphia PA
2019 Instructor, Undergraduate level, SOUL: Hands-on Matlab App Development for Biomedical Applications, Johns Hopkins University, Baltimore MD

Mentoring (*Please list only mentees who have received substantive and sustained mentoring in clinical, research, and/or educational activities.*)

High School Mentees

2020 Jennifer Hinton - Johns Hopkins Neuroscience Scholar Program

Pre-Doctoral Mentees

2013 - 2015 Miao Jingya, mentored on cell culture and experimental design. MS Thesis: An Improved In vitro Cell-Shearing Device for Applying High Shear Stress impulse on Cells
2019 - Present Cynthia Lo

Educational Program Building / Leadership

2010 – 2011 Graduate Representative, Drexel Middle States Mission and Goals Working Group
2011 – 2012 President, Drexel Biomedical Engineering Graduate Student Association

Educational Demonstration Activities to external audiences, on or off campus

2010 Alum Chaperone, NIH-NIDDK STEP-UP Program
2011 – 2015 Judge, Research Experience for Undergraduates, Drexel University
2010 – 2011 Guest Scientist, Science Leadership Academy, School District of Philadelphia
2013 Mentor, Biomedical Engineering Summer Research Experience for Highschool Students, Drexel University

RESEARCH ACTIVITIES (*in chronological order, earliest first by start date under each subcategory*)

Research Focus

My interests are twofold: engineering and the brain. I am ecstatic about any question that involves both, and I thrive when I use my broad background in engineering to answer specific biological questions. During my graduate career, I used this background to investigate the mechanisms of axonal pathology in traumatic brain injury and subsequent secondary neurodegeneration. For my postdoctoral training I continued to use and adapt my engineering background and strong foundation in quantitative reasoning for further understanding the mechanisms of disorders that affect the brain and spinal cord. As part of the Brain Health Program (BHP) at JHU since 2017, I am now working with much larger data sets and more avante-garde techniques. I feel strongly that we are not limited to answering questions with the tools we currently have at our disposal, but instead should find and develop tools to answer the questions that we believe to be of the utmost clinical importance. Some of these tools may already exist and I believe that translating methods from external fields to neurology can quickly open new doors for research progress. Johns Hopkins provides an ideal environment for advancing this research because it has an atmosphere that promotes collaborative interactions; allows me the freedom to explore and expand upon my own background by learning from recognized leaders in many different fields. The department of neurology is also actively involved in the local community through education and outreach, which I also consider to be a necessity for putting research goals into perspective and focusing on the translational questions that will ultimately serve patients best.

Research Program Building / Leadership

2012 – 2013 Chair, Drexel Doctoral Student Academic Affairs Advisory Committee

Research Demonstration Activities to external audience, on or off campus

None

SYSTEM INNOVATION AND QUALITY IMPROVEMENT ACTIVITIES

Not applicable

ORGANIZATIONAL ACTIVITIES (*in chronological order, earliest first by start date under each subcategory*)

Institutional Administrative Appointments

None

Editorial Activities

None

Journal peer review activities

2018	PLOS Computational Biology
2019	Journal of Neurovirology
2019	JAIDS: Journal of Acquired Immune Deficiency Syndromes
2021	JAIDS: Journal of Acquired Immune Deficiency Syndromes

Other peer review activities [*non medico-legal*]

2020	Scientific Computing with Python - General Track
2020	Scientific Computing with Python - Tutorials
2021	Scientific Computing with Python - General Track
2021	Scientific Computing with Python - Tutorials

Advisory Committees, Review Groups/Study Sections

2020 Neurology Research Re-start Committee

Professional Societies

2013 - 2016	Member, Biomedical Engineering Society (BMES)
2014 - 2015	Member, National Neurotrauma Society (NNS)
2016 - 2020	Member, International Society for NeuroVirology (ISNV)

RECOGNITION (*in chronological order, earliest first by start date under each subcategory*)

Awards, Honors

2014	Most Outstanding Graduate Student Paper and Poster Presentation, Northeastern Biomedical Engineering Conference (NEBEC)
2014	Travel Award, National Neurotrauma Society
2015	Office of Graduate Studies Dissertation Fellowship
2016	Travel Award, International Society for Neurovirology
2016	Howard E. Gendelman 2016 ISNV Pioneer in NeuroVirology Lectureship award
2018	Sponsored Registration, SciPy 2018 Conference

Invited Talks (such as grand rounds, keynote addresses, visiting professorships. *Do not duplicate entries already shown above.*)

2015 Commencement Speaker, Drexel University School of Biomedical Engineering

OTHER PROFESSIONAL ACCOMPLISHMENTS (*Optional*)

Posters

1. **Dastgheyb, R. M.**, Gallo, G., & Barbee, K. A. (2011, April). Quantification of beading intensity in cultured neurons. In *2011 IEEE 37th Annual Northeast Bioengineering Conference (NEBEC)* (pp. 1-2). IEEE.
2. **Dastgheyb, R. M.**, Cochran, M. C., & Barbee, K. A. (2012, March). Interactions of fluorescein isothiocyanate-labeled poloxamer P188 with cultured cells. In *2012 38th Annual Northeast Bioengineering Conference (NEBEC)* (pp. 311-312). IEEE.
3. **Dastgheyb, R.**, Gallo, G., Barbee, K. An Implemented Method of Quantifying Beading Intensity in Cultured Neurons. *Biomedical Engineering Society Conference (BMES)*
4. Taga, A., **Dastgheyb, R.**, Joseph, J., Habela, C., Richard, J. P., Haughey, N., & Maragakis, N. (2019). Multielectrode array analysis of human iPSC-motor neuron maturation following coculture with iPSC-spinal cord astrocytes (P4. 4-031).
5. **Dastgheyb, R. M.**, Barbee, K. A., & Gallo, G. (2014, April). The role of intracellular calcium in axonal injury. In *2014 40th Annual Northeast Bioengineering Conference (NEBEC)* (pp. 1-2). IEEE.
6. **Dastgheyb, R.**, Gallo, G., Barbee, K. The Role of Oxidative Stress in Axonal Patholog. *Biomedical Engineering Society Conference (BMES)*
7. **Dastgheyb, R. M.**, Gallo, G., & Barbee, K. A. (2014, June). SECONDARY MEMBRANE DAMAGE AND THE POTENTIAL FOR MEMBRANE-TARGETED NEUROPROTECTION. In *JOURNAL OF NEUROTRAUMA* (Vol. 31, No. 12, pp. A93-A93). 140 HUGUENOT STREET, 3RD FL, NEW ROCHELLE, NY 10801 USA: MARY ANN LIEBERT, INC.
8. **Dastgheyb, R. M.**, Barbee, K. A., & Gallo, G. (2015, April). Quantifying focal disruptions in axonal microtubules. In *2015 41st Annual Northeast Biomedical Engineering Conference (NEBEC)* (pp. 1-2). IEEE.
9. **Dastgheyb, R. M.**, Barbee, K. A., & Gallo, G. (2015, April). Investigating sources of axonal calcium in neuronal cultures modeling Traumatic Brain Injury. In *2015 41st Annual Northeast Biomedical Engineering Conference (NEBEC)* (pp. 1-2). IEEE.
10. **Dastgheyb, R.**, Khuder, S., Dorskind, J., Wang, S., Chaudhuri, A. D., Yoo, S. W., & Haughey, N. (2016, October). Astrocyte-shed extracellular vesicles regulate synchronous network burst activity. In *JOURNAL OF NEUROVIROLOGY* (Vol. 22, pp. S16-S16). 233 SPRING ST, NEW YORK, NY 10013 USA: SPRINGER.
11. Chaudhuri, D. A., Wang, S., Khuder, S., **Dastgheyb, R.**, Trout, A., Yoo, S., ... & Haughey, N. (2017, April). Exosomes released from astrocytes in response to morphine and inflammatory cytokines deconstruct synaptic connections through modulation of microRNA cargo. In *JOURNAL OF NEUROIMMUNE PHARMACOLOGY* (Vol. 12, pp. S53-S53). 233 SPRING ST, NEW YORK, NY 10013 USA: SPRINGER.
12. **Dastgheyb, R.**, Chen, S., Venkata, S. L. V., Rubin, L. H., Franklin, D., Letendre, S., ... & Haughey, N. (2018, April). Machine learning interrogation of clinical and plasma markers identify prognostic models for cognitive trajectory. In *JOURNAL OF NEUROIMMUNE PHARMACOLOGY* (Vol. 13, pp. S20-S21). 233 SPRING ST, NEW YORK, NY 10013 USA: SPRINGER.
13. **Dastgheyb R.**, Williams DW, Xu Y, Fitzgerald K, Wang Z, Keating S, Norris P, Kaplan RC, Maki PM, Anastos K, Haughey NJ, Kassaye S, Gustafson DR, Valcour VG, Rubin LH. (March 5, 2019). Early inflammatory profiles in long-term virally suppressed women predict cognition. Conference on Retroviruses and Opportunistic Infections (CROI). Seattle, Washington.
14. #Chen, S., #**Dastgheyb, R.**, Rubin, L., Venkata, S., Cox, B., Haughey, N. (2018). Analysis of Plasma Lipids with an Acute Mile TBI. National Capital Area Research Symposium # *Co-first authors*
15. Habela, C., Taga, A., **Dastgheyb, R.**, Yoon, K. J., Haughey, N., Stafstrom, C., ... & Maragakis, N. (2019, April). 15q11. 2 Deletion Results in Altered Excitability and Connectivity in Human Induced Pluripotent Stem Cell Derived Neurons (*American Academy of Neurology*, S51. 009).

16. Taga, A., **Dastgheyb, R.**, Joseph, J., Habela, C., Richard, J. P., Haughey, N., & Maragakis, N. (2019, April). Multielectrode array analysis of human iPSC-motor neuron maturation following coculture with iPSC-spinal cord astrocytes (American Academy of Neurology, P4. 4-031).
17. Rubin LH, Saylor D, Nakigozi G, Nakasujja N, Robertson K, Kisakye A, Batte J, Mayanja R, Anok A, Lofgren SM, Boulware DR, **Dastgheyb, R.**, Reynolds S, Quinn T, Gray RH, Wawer MJ, Sacktor NC. (April 9, 2019). Heterogeneity in Neurocognitive Change Trajectories Among People Starting Antiretroviral Therapy HIV Infection in Rakai, Uganda. 10th Anniversary Conference: Global Mental Health without Borders. Bethesda, MD.
18. Westergard, T. R., Miller, S. J., Philips, T., Kim, N., **Dastgheyb, R.**, Chen, Z., ... & Rothstein, J. D. (2019, July). Molecularly defined cortical astroglia subpopulation modulates neurons via secretion of Norrin. In *GLIA* (Vol. 67, pp. E737-E737). 111 RIVER ST, HOBOKEN 07030-5774, NJ USA: WILEY.
19. Moniruzzaman, M., **Dastgheyb, R.**, Lo, C., Mielke, M. M., Moore, D., Letendre, S., ... & Haughey, N. J. (2019, October). Elevated plasma eicosanoids are associated HIV-disease status and working memory in people living with HIV. In *JOURNAL OF NEUROVIROLOGY*
20. **Dastgheyb R.**, Fitzgerald KC, Chan C, Buchholz AS, Xu Y, Williams DW, Springer G, Anastos K, Gustafson DR, Spence AB, Adimora AA, Waldrop-Valverde D, Vance DE, Milam J, Bolivar H, Weber KM, Haughey NJ, Maki PM, Rubin LH. (November, 2019). Neurocognitive profiles among virally suppressed women with HIV. International Symposium on Neurovirology. Atlanta, GA
21. Kumar, A., Yoo, S. W., **Dastgheyb, R.**, Deme, P., Lee, H., Bi, H., ... & Haughey, N. (2019, October). Modulation of neuronal dendritic spine morphology and function by astrocyte derived extracellular vesicles following morphine withdrawal. In *JOURNAL OF NEUROVIROLOGY* (Vol. 25, No. SUPPL 1, pp. S22-S22). 233 SPRING ST, NEW YORK, NY 10013 USA: SPRINGER.
22. Taga, A., Rajbhandari, L., **Dastgheyb, R.**, Habela, C., Gross, S., Haughey, N., ... & Maragakis, N. (2020). Modeling the Human Corticospinal Tract-on-a-chip with Regionally-specific hiPSC-derived Neurons and Astrocytes (4811).
23. Habela, C., Taga, A., Dastgheyb, R., Yoon, K. J., Haughey, N., Stafstrom, C., ... & Maragakis, N. (2019). 15q11. 2 Deletion Results in Altered Excitability and Connectivity in Human Induced Pluripotent Stem Cell Derived Neurons (S51. 009).
24. Bi, H., Chaudhuri, A. D., & Dastgheyb, R. (2019, October). IL-1beta stimulates the release of extracellular vesicles from astrocytes that promote the expression of neuronal receptors implicated in a morphine-addiction pathway. In *JOURNAL OF NEUROVIROLOGY* (Vol. 25, No. SUPPL 1, pp. S4-S5). 233 SPRING ST, NEW YORK, NY 10013 USA: SPRINGER.
25. Lo, C., Yoo, S., Haughey, N., **Dastgheyb, R.**. Automated Detection and Quantification of Amyloid-Beta Plaque Histology. *Biomedical Engineering Society Conference (BMES)*

Oral/Podium Presentations [abstracts that were both presented orally and published]

1. **Dastgheyb, R.**, Khuder, S., Dorskind, J., Wang, S., Chaudhuri, A. D., Yoo, S. W., & Haughey, N. (2016, October). Astrocyte-shed extracellular vesicles regulate synchronous network burst activity. In *JOURNAL OF NEUROVIROLOGY* (Vol. 22, pp. S16-S16). 233 SPRING ST, NEW YORK, NY 10013 USA: SPRINGER.
2. **Dastgheyb, R.**, Making Sense of Clinical Data, Scientific Computing with Python Virtual Conference 2020

Community Services

- 2016 - Present Mentor, Refugee Youth Project
 2016 - Present Volunteer, Moveable Feast

Philanthropic Activities

- 2021 - Present Member, Moveable Feast Program Committee