

**Matthew Aaron Diller**

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**Education**

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M.S., Medical Sciences, Concentration in Biomedical Informatics, Department of Health Outcomes and Policy, College of Medicine, University of Florida, Gainesville, FL, 2016-present.

B.A. Philosophy, College of Liberal Arts and Sciences, University of Florida, Gainesville, FL, December, 2014.

**Research Interests**

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Biomedical ontologies • Knowledge representation and reasoning • Neurodegenerative disease  
Hemorrhagic stroke • Cerebral microbleeds

**Professional Experience**

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2015-present. *Research Assistant, Biomedical Informatics*, Department of Health Outcomes and Policy, College of Medicine, University of Florida. Develop and build an ontology for infectious disease epidemic simulators, called the Apollo Structured Vocabulary (Apollo-SV), which serves the purpose of integrating infectious disease simulator information for the Apollo Web Services within the Modeling Infectious Disease Agents Study (MIDAS) network.

2014-present. *Research Assistant*, Sylvain Doré Laboratory, Center for Translational Research in Neurodegenerative Diseases, Department of Anesthesiology, College of Medicine, University of Florida. Assist with study designs for various translational stroke studies, which includes developing behavior test batteries and optimizing new or existing standard operating procedures for various techniques, such as DNA isolation with polymerase chain reaction (PCR), cryosectioning, behavior testing, and transcatheter perfusions. Have also designed and currently oversee studies investigating the contribution of systemic inflammation to the onset/exacerbation of neurodegeneration seen in cerebral microbleeds and stroke.

**Peer Review**

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ASN Neuro

**Academic and Community Service**

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*Third Party Voter Registration Organization*, 2015-present. Independently offered the service of registering individuals working within the Center for Translational Research in Neurodegenerative Disease and the Clinical and Translational Science Institute at UF who were interested in voting or had just obtained United States citizenship. Goals are to

function as a conduit for individuals who would have had difficulty leaving work to register, and to provide them with relevant information on registration and voting.

*Student Volunteer*, Sylvain Doré Laboratory, Center for Translational Research in Neurodegenerative Disease, Department of Anesthesiology, College of Medicine, University of Florida, 2013-2014, 2015-Present. Assisted senior faculty and graduate students with behavior training and testing of study animals; euthanization of study animals; collection of sample tissue for genotyping and histochemistry staining; cryosectioning; various histochemistry staining techniques, including cresyl violet, luxol fast blue, neutral red, and hematoxylin and eosin; statistical analysis of data; and writing papers.

*Lambda Chi Alpha Fraternity*, University of Florida, Gainesville, FL, 2010-2014. Participated in various annual philanthropies promoted by Lambda Chi Alpha, including: Watermelon Bust, which focuses on raising money and collecting food donations for the North American Food Drive; Santa's Visit, where we worked with the Boys and Girls Club of Alachua County to offer children of low income families within the community a day of arts and crafts, as well as holiday presents. Additional position: Kitchen Manager (2013). Ensured that the fraternity house kitchen met health and safety standards.

*Dance Marathon*, University of Florida, Gainesville, FL, 2011-2013. Held various volunteer staff positions each year. Morale Staff (2011-2012): Assisted with organizing and managing various activities aimed at keeping participants and visitors entertained and engaged in the event. Hospitality Staff (2012-2013): Passed out food to staff members and dancers. Fraternity Delegate (2012-2013): Informed fraternity members and alumni about any fundraising events, service projects, and philanthropies hosted by Dance Marathon; and oversaw the chapter's fundraising and participation activities, which resulted in the fraternity winning first place in our group for overall fundraising and participation.

*Student Dental Clinic volunteer at Shands Hospital*, College of Dentistry, University of Florida, 2013. Assisted 3<sup>rd</sup> and 4<sup>th</sup> year dental students with procedures as they performed their clinical rotations.

## **Publications**

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Leclerc J.L., Lampert A, **Diller M.A.**, Immergluck J.A, Dore S. "Prostaglandin E2 EP2 receptor deletion attenuates intracerebral hemorrhage-induced brain injury and improves functional recovery," *American Society for Neurochemistry Neuro*, 7, 2015.

Leclerc J.L., Lampert A, **Diller M.A.**, Dore, S. "Genetic deletion of the PGE2 EP3 receptor improves anatomical and functional outcomes after intracerebral hemorrhage," *European Journal of Neuroscience*, 41, 2015, pp. 1381-1391.

Leclerc J.L., Lampert A, **Diller M.A.**, Dore, S. “PGE2-EP3 signaling exacerbates intracerebral hemorrhage outcomes in 24-mo-old mice,” *American Journal of Physiology – Heart and Circulatory Physiology*, 2016. (Accepted)

## **Conference Papers and Presentations**

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\* Indicates equal contribution

Leclerc J.L., Lampert A, Diller M, Doré, S. “Genetic deletion of the PGE2 EP3 receptor improves anatomical and functional outcomes after intracerebral hemorrhage”. *North Central Florida Society for Neuroscience Chapter Conference*, 7, 2015.

Leclerc J.L., Lampert A, Diller M, Immergluck J.A, Shuh N, Doré S. “Prostaglandin E2 EP2 receptor deletion attenuates intracerebral hemorrhage-induced brain injury and improves functional recovery”. *University of Florida College of Medicine Celebration of Research*, 2015.

Diller M, Johnson E, Hicks A, Hogan W. “An ontological analysis of symbiotic relationships”. *Emerging Pathogens Institute Research Day*, 2016.

Diller M, Leclerc J.L., Lampert A, Doré S. “Modulation of blood accumulation and angiogenic responses by PGE2-EP3 signaling after ICH in mice”. *University of Florida College of Medicine Celebration of Research*, 2016.

Hogan WR, Hanna J, Hicks A, Amirova S\*, Bramblett B\*, Diller M\*, Enderez R\*, Modzelewski T\*, Vasconcelos M\*, Delcher C. “Therapeutic Indications and Other Use-case-driven Updates in the Drug Ontology”. *International Conference on Biomedical Ontology and BioCreative (ICBO BioCreative 2016)*, 2016.

## **Skills and Interests**

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*Computer Skills.* Familiar with R, Python, HTML5, CSS3, and SAS. Proficient with Microsoft Word, Excel, and Powerpoint.

*Interests.* Wikipedia editor, Gardening, Cooking, Reading, and Writing.