*Curriculum Vitae*

Jennifer Marie Francis Gray

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**Education**

*2014 – 2018*  **St. Edward’s University** *Austin, TX*

Bachelor of Science, Behavioral Neuroscience; Minor in Biology

*2019 – Present* **Georgia State University**  *Atlanta, GA*

Doctorate of Neuroscience

**Research Interests**

Special interests: Neuroendocrinology, Neuroinflammation

* Relationship between neurophysiology, hormones, and cognitive/behavioral outcomes
* Relationship between parturition and cell death in the brain; neuroprotective properties of vasopressin at birth

**Research Experience**

*(St. Edward’s University, The University of Texas at Austin, Southwestern University)*

**Student Investigator** *Summer 2018-present*

Gore Lab, The University of Texas at Austin College of Pharmacy

Advisor: Andrea Gore, Ph.D.

* Investigating the effects of exogenous endocrine disruptors (Aroclor, Vinclozolin) in-utero and sexual conspecific aggressive response (SCAR) model in stress response behaviors, neural c-Fos expression, and corticosterone levels in adolescent female Sprague-Dawley rats
  + Responsibilities: contributed significantly to pilot data analysis, daily animal husbandry work, weekly chemical solution preparation, culling, EDC injections, SCAR behavioral testing, brain perfusion/slicing, c-Fos & corticosterone analysis, scoring behavioral data using Behavioral Observation Research Interactive Software, manuscript preparation

**Primary Student Investigator/ Lab Manager** *Spring**2017-Summer 2018*

St. Edward’s University Bio-Psychology Collaborative Research Lab

Advisor: Raelynn Deaton Haynes, Ph.D.

* Investigating changes in risk aversion behaviors and hormone profiles between women in hypogamous relationships and women in homogamous relationships
  + Responsibilities: drafted IRB proposal, contributed significantly to design and protocol, data collection, completed round 1 salivary enzyme immunoassays and data analysis

**Primary Student Investigator/ Lab Manager** *Fall 2016-Spring 2018*

St. Edward’s University Behavioral Neuroscience Lab

Advisor: Katy Goldey, Ph.D.

* Investigating the effect of imagined competitive scenarios on Testosterone levels in women
  + Responsibilities: drafted IRB proposal, contributed significantly to design and protocol, trained research assistants on lab procedures, sample collection, completed salivary enzyme immunoassays, data analysis, manuscript drafting - first author

**Student Investigator**  *Spring 2016-Fall 2016*

St. Edward’s University Behavioral Neuroscience Lab Advisor: Katy Goldey, Ph.D.

* Investigating the effect of imagined competitive scenarios on mood
  + Responsibilities: primary literature research, helped draft IRB proposal, contributed significantly to design and protocol, data analysis

**Student Investigator** *Summer 2016* Southwestern University Vertebrate Research Lab Advisor: Russel Frohardt, Ph.D.

* Investigating exposure to methylphenidate during peri-adolescence on endocrine functioning and copulatory behaviors in female Long–Evans rats
  + Responsibilities: primary literature research, animal husbandry, data collection, behavioral analysis, observed histological staining of neural tissue

**Poster and Oral Presentations**

**Gray, J.**, Montemayor, E., Archey, M.L., & Goldey, K.L. (**March 2018**). Imagination is the name of the game: Effects of competitive mental imagery on mood and testosterone. *Society for Personality and Social Psychology*, Atlanta, GA.

**Gray, J**. (**March 2018**). Imagination is the name of the game: Effects of competitive mental imagery on mood and testosterone. *SOURCE*, Austin, TX.

**Gray, J**. (**March 2017**). Imagination is the name of the game: Effects of competitive mental imagery on mood. *SOURCE*, Austin, TX.

Archey, M.L**.**, Dahlhausen, C., **Gray, J.**, Mercado, A.N., Widmann, M., & Goldey, K.L. (**January, 2017**). It's not just what you get, but also what you give: Effects of competitive mental imagery on mood. *Society for Personality and Social Psychology,* San Antonio, TX.

**Research Grants & Awards**

2019 Center for Cardiometabolic Diseases and Neuroinflammation 2CI Fellowship in Neuroinflammation

2018 St. Edward’s University Student Research Award; Behavioral Neuroscience & Biology

2017 Emma Lou Linn Endowed Faculty/Student Research Grant

2017 Funded Student Researcher/Lab Manager for Katy Goldey, PhD

**Skills**

* Lab management and organizational skills
* Salivary and blood plasma hormone measurement (collection and processing)
* Animal husbandry & associated medical procedures (injection, oophorectomy, orchiectomy, perfusion, organ extraction)
* Immunoassay (RIA, EIA, ELISA)
* Proficient in R, SPSS, Microsoft Office, BORIS, ANY-maze, Qualtrics
* Behavioral scoring & content coding/analysis
* IRB proposal preparation
* Experimental design
* Participant Recruitment (Community, Social Media & Online outlets)
* Data cleaning/management
* Manuscript and Report drafting
* Training/Mentoring research assistants
* Emergency Medical Technician, training Summer 2016

**Teaching Experience**

*Spring 2017* Psychology Statistics; A. Swinkels, PhD *Teaching Assistant*

Responsibilities: grading, tutoring, data entry

**Related Volunteer & Work Experience**

*July 2019 – Present* Graduate Research Assistant, Georgia State University Neuroscience Institute

*August 2018 – June 2019* Lead Teacher, First Presbyterian Day School of Austin

*May 2018 – July 2019* Nursery Coordinator, First Presbyterian Church of Austin

*Spring 2018– July 2019* Medical Support Staff, Austin Harm Reduction Coalition

*Spring 2018– July 2019* Community Volunteer,Girl Advocacy League

*Summer 2017* Camp Administrator, Youth & Teen Department Shalom Austin

*Spring 2016 – Fall 2017* St. Edward’s Pre-Health Advisory Board

*Fall 2015 – July 2019* Girl’s Empowerment Network Youth Advisory Board

*Fall 2014 – May 2018*  Nursery Educator, First Presbyterian Church of Austin

**Relevant Coursework**

* Abnormal Psychology
* Analytical Chemistry with Lab
* Animal Behavior
* Applied Statistics
* Graduate Statistics
* Behavioral Neuroscience
* Chemical Dependency Issues
* General Chemistry with Lab
* Emergency Medicine, EMT-B
* Graduate Neuroscience
* Hormones and Behavior with Lab
* Learning and Cognition
* Microbiology with Lab
* Molecular Biology
* Neuroscience with Lab
* Research Methods
* Psychology Statistics
* Physiology with Lab
* Responsible Conduct in Research

**Affiliations & Involvement**

* Society for Personality and Social Psychology
* Girl’s Empowerment Network
* Girl Advocacy League

**Scholarships & Honors**

*Spring 2017 – Spring 2018* St. Edward’s University Student Research Award

*Fall 2017* Dean’s List, Universita degli studi della Tuscia

*Fall 2017*  Benjamin A. Gilman International Scholarship Award

*Fall 2016 – Spring 2018* Dean’s List, St. Edward’s University

*2014 – Spring 2018* St. Edward’s University Scholar Award

**References**

Nancy Forger, Ph.D.\*

*Director of Neuroscience Institute*

Georgia State University Neuroscience Institute

Petit Science Center, 885

100 Piedmont Ave. SE

Atlanta, GA 30303

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Alexandra Castillo-Ruiz, Ph.D.\*

*Assistant Professor of Research*

Georgia State University Neuroscience Institute

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Atlanta, GA 30303

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Katherine Goldey, Ph.D.\*

*Assistant Professor of Behavioral Neuroscience*

Saint Edward’s University

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Alan Swinkels, Ph.D.\*

*Professor; Chair of Psychology Dept.*

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