

# Taylor Frances Fitzpatrick-Schmidt

3221 Baudin Street, New Orleans, LA 70119

tfitzp@lsuhsc.edu

(774) 364-3087

## EDUCATION

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**LSUHSC School of Medicine**, New Orleans, LA

Doctor of Medicine and Doctor of Philosophy Candidate, Expected Graduation May 2027

**Tulane University**, New Orleans, LA

Bachelor of Science with Honors in Neuroscience, Minor in Dance, May 2017

Cumulative GPA: 3.84 – Magna Cum Laude

**Université Paris 7 (Diderot)**, Paris, France, Spring 2016

## RESEARCH EXPERIENCE

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**Louisiana State University Health Sciences Center: Physiology Department, Edwards Lab** **New Orleans, LA**  
*Graduate Student* *July 2022-Present*

- Tentative project title: Interactions of pain and alcohol in the context of HIV

**NIAAA T35AA021097 Medical Student Alcohol Research Internship** **New Orleans, LA**  
*Summer Trainee* *June 2021-July 2021*

- Investigated the relationship between cognition and alcohol use both in people living with HIV and SIV-infected female rhesus macaques
- Performed Western blotting and analysis using ImageJ and became familiar with analyzing outputs from SAS Statistical Analysis Software
- Collected data from novel object recognition task videos
- Gave an oral presentation summarizing findings at the end of the summer and created a poster, which was presented at the Summer Student Research Day and APS New Trends in Sex and Gender Medicine conference

**Tulane National Primate Research Center: Immunology Division, Kaur Lab** **Covington, LA**  
*Medical Research Technician* *June 2019-March 2020*

- Worked on several projects studying cytomegalovirus (CMV) and simian immunodeficiency virus (SIV)
- Coordinated project investigating the immunomodulatory role of natural killer T (NKT) cells in SIV infection
- Performed immunological assays including intracellular cytokine staining, flow cytometry, Luminex assays, and RNA and DNA extractions

**Tulane University Medical School: Hayward Genetics Center, Morava Lab** **New Orleans, LA**  
*Research Assistant* *Sept. 2014-May 2017*

- Investigated congenital disorders of glycosylation, specifically the therapy response of DPM2-CDG
- Performed genetic analyses such as immunohistochemistry staining, quantitative reverse transcription polymerase chain reaction (qRT-PCR), and Western blotting

**Eastern Virginia Medical School, Summer Scholars Program** **Norfolk, VA**  
*Summer Scholar Intern* *May-August 2016*

- Studied parental awareness and familiarity of adolescent vaccines in an inner-city pediatric clinic
- Gave out surveys in the pediatrics clinic at Children's Hospital of the King's Daughters

**Tulane National Primate Research Center, Undergraduate Fellowship Program** **Covington, LA**  
*Summer Fellow* *June-August 2015*

- Investigated the effect of different immunosuppressive drugs used in transplant settings on T cell epitopes associated with cytomegalovirus (CMV)
- Mapped CMV-specific T cell epitopes and performed in vitro dose titrations using ELISPOT

## WORK EXPERIENCE

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**Partners in Health** **Boston, MA**  
*Contact Tracer* *April-July 2020*

- Worked as a contact tracer as part of the Contact Tracing Collaborative (CTC) in response to the novel coronavirus (COVID-19) pandemic
- Made phone calls to provide positive cases and possible exposed contacts with information to isolate and quarantine effectively to help stop the spread of COVID-19

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### Peace Corps Rwanda

Secondary School Instructor

- Taught Biology and English to 350 advanced secondary students (ages 15-25) for 15 classroom hours per week
- Planned and implemented two-day Student Leadership Conference for 44 students at two schools
- Elected as Stomping Out Malaria in Africa (STOMP) regional coordinator in the Western province
- Implemented Let Girls Work career development program for 35 female secondary students
- Completed three months of intensive Kinyarwanda language training and lived in a rural village where Kinyarwanda was the primary language of communication

### Gishoma, Rwanda

September 2017-March 2019

### Lycée Français de la Nouvelle Orléans

After Care Teacher

- Supervised 20-30 students ages 5-10 during the After Care program
- Helped students complete French homework and practice speaking French

### New Orleans, LA

September 2016-May 2017

### PUBLICATIONS

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- Radenkovic, S., **Fitzpatrick-Schmidt, T.**, Byeon, S. K., Madugundu, A. K., Saraswat, M., Lichty, A., Wong, S., McGee, S., Kubiak, K., Ligezka, A., Ranatunga, W., Zhang, Y., Wood, T., Friez, M. J., Clarkson, K., Pandey, A., Jones, J. R., & Morava, E. Expanding the clinical and metabolic phenotype of DPM2 deficient congenital disorders of glycosylation. *Molecular genetics and metabolism*, 132(1), 27–37, 2021.
- Bond, N., Fahlberg, M., Yu, S., Rout, N., Tran, D., **Fitzpatrick-Schmidt, T.**, et al. Immunomodulatory potential of in vivo natural killer T (NKT) activation by NK1.1<sup>+</sup>320 in Mauritian-origin cynomolgus macaques. *iScience*, Volume 25, Issue 3, 2022.

### PRESENTATIONS

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- Fitzpatrick-Schmidt, T.**, Rosen, E., Welsh, D., Simon, L., Edwards, S., Molina, P., Ferguson, T. “Cardiometabolic Risk Factors, Alcohol Use, and Cognition in People Living with HIV.” Poster presented at Research Society on Alcoholism Annual Scientific Meeting, June 2022.
- Fitzpatrick-Schmidt, T.**, Marathonitis, S., Coleman, L., Edwards, K., Simon, L., Molina, P., Edwards, S. “Neurobiological consequences of chronic binge alcohol exposure and ovariectomy on markers of hippocampal plasticity in SIV-infected female rhesus macaques.” Poster presented at American Physiological Society’s New Trends in Sex and Gender Medicine, October 2021.
- Smith A., **Fitzpatrick-Schmidt T.**, Beiter K., Scharf P., Chapman B., Brown T., Schoen J., Stuke L., Greiffenstein P., Marr A., Hunt J. The COVID-19 pandemic and its impact on mass shooting in six major US cities. *Annual Meeting for American Association for the Surgery of Trauma conference*. Atlanta, GA. September 2021.
- Zenere, G., Bond, N., Yu S., Tran, D., Sprehe, L., Weiler, A., Mostrom, M, **Fitzpatrick-Schmidt, T.**, et al. “NK1.1<sup>+</sup>320 mab-induced Natural Killer T lymphocyte activation promotes slower depletion of CCR5<sup>+</sup> CD4<sup>+</sup> T lymphocytes in acute SIV infection”. Poster presented at the 37<sup>th</sup> Annual Symposium on Nonhuman Primate Models for AIDS (NHP), San Antonio, TX, November 2019.
- Moström, M., Merino, K., Slisarenko, N., Scheef, E., Allers, C., Barnes, MB., Falkenstein, KP., Lee, A., **Fitzpatrick-Schmidt, T.**, et al. “Increased risk of early cytomegalovirus (CMV) infection in SIV-infected infant rhesus macaques”. Poster presented at the 37<sup>th</sup> Annual Symposium on Nonhuman Primate Models for AIDS (NHP), San Antonio, TX, November 2019.
- Fitzpatrick-Schmidt, T.**, Wong, S., Morava, E. “Monosaccharide Therapy as a Treatment for Dolichyl-Phosphate Mannosyltransferase 2 Deficiency (DPM2-CDG)” (2017). Honors Thesis defense at Tulane University, New Orleans, LA, May 2017.
- Fitzpatrick-Schmidt, T.**, Wong, S., Morava, E. “New Therapies in CDGs”. Oral presentation at NOLA CDG Parent, Patient, and Physician Meeting, New Orleans, LA, May 2017.
- Fitzpatrick-Schmidt, T.**, Wong, S., Morava, E. “Galactose Supplementation as a Novel Treatment for Dolichyl-Phosphate Mannosyltransferase 2 Deficiency (DPM2-CDG)”. Poster presented at Southern Regional Meeting (SRM) Conference, New Orleans, LA, February 2017.

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**Fitzpatrick-Schmidt, T.**, Moneymaker, C., Harrington, JW. “Parental Awareness and Knowledge of Adolescent Vaccine Recommendations in an Inner-City Academic Practice”. Poster presented at Summer Scholars Reception, Norfolk, VA, July 2016.

### **HONORS AND AWARDS**

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Benoit Migambi Chronic and Neurological Diseases Scholarship Winner (*July 2022*)

Research Society on Alcoholism Travel Award, Orlando, FL (*June 2022*)

Co-chair of “News in Sex Differences in Pain and Addiction” session at American Physiological Society Sex and Gender Conference, Virtual (*October 2021*)

The Neuroscience Faculty Award, Tulane University (*May 2017*)

Member of Phi Beta Kappa, Tulane University (*Inducted May 2017*)

2017 Southern Society of Pediatric Research (SSPR) Trainee Travel Award (*November 2016*)

Dean’s List, Tulane University (*Fall 2013-Spring 2017*)

Honors Program, Tulane University (*Fall 2013-Spring 2017*)

### **VOLUNTEER AND ACTIVITIES**

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Member of American Academy of HIV Medicine (*July 2022-Present*)

Member of Research Society on Alcoholism (*July 2021-Present*)

Member of American Physiological Society (*August 2021-Present*)

New Orleans Adolescent Reproductive Health Project Board Member (*January 2022-Present*)

Student Run Community Clinic Volunteer, LSUHSC-New Orleans (*January 2022-Present*)

Volunteer in Neonatal Intensive Care Unit at Ochsner Baptist Medical Center (*Fall 2015, Fall 2015-Spring 2017, Fall 2019-March 2020, July 2021-Present*)

Treasurer of Student International Health Organization (*April 2021-May 2022*)

Notetaker for Note-Taking Services, LSUHSC-New Orleans (*Fall 2020-May 2021*)

Volunteer at Mushaka Health Center in Mushaka, Rusizi, Rwanda (*January 2018-March 2019*)

Volunteer in Pediatric Oncology Unit at Hôpital Trousseau, Paris, France (*Spring 2016*)