

Taylor Frances Fitzpatrick-Schmidt

1901 Perdido St. New Orleans, LA 70112

tfitzp@lsuhsc.edu

(774) 364-3087

EDUCATION

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

Louisiana State University Health Sciences Center: Physiology Department, Edwards Lab **New Orleans, LA**

Graduate Student

July 2022-Present

- Tentative project title: Interactions of alcohol and pain 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

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

- 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⁺320 in Mauritian-origin cynomolgus macaques. *iScience*, Volume 25, Issue 3, 2022.

PRESENTATIONS

- 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⁺320 mab-induced Natural Killer T lymphocyte activation promotes slower depletion of CCR5⁺ CD4⁺ T lymphocytes in acute SIV infection”. Poster presented at the 37th 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 37th 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

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

Association for Women in Science Southeastern Louisiana Chapter Graduate Student Representative (*August 2022-present*)

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*)