

# TYLER L. FRANK, M.S.

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## EDUCATION & TRAINING

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- 2019 – present      **PhD Student, Public Health Sciences**  
Brown School at Washington University in St. Louis, MO
- 2018                    **Master of Science, Applied Health Behavior Research**  
Washington University School of Medicine in St. Louis, MO
- 2015                    **Bachelor of Arts, Major: Psychology, Minor: Music**  
College of Arts & Sciences at Washington University in St. Louis, MO

## PUBLICATIONS

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### Peer-Reviewed Papers

#### *Co-author*

Jabbari, J., Chun, Y., Nandan, P., McDermott, L., **Frank, T.**, Ferris, D., ... & Roll, S. (2021). How did school meal access change during the COVID-19 pandemic? A two-step floating catchment area analysis of a large metropolitan area. *International Journal of Environmental Research and Public Health*, 18(21), 11350.

Lamichhane, B., Jayasekera, D., Jakes, R., Glasser, M. F., Zhang, J., Yang, C., Grimes, D., **Frank, T. L.**, ... & Hawasli, A. H. (2021). Multi-modal biomarkers of low back pain: A machine learning approach. *NeuroImage: Clinical*, 29, 102530.

Hawasli, A. H., Ray, W. Z., Goad, M. A., **Frank, T. L.**, Ellis, E. R., Schmidt, M., & LaMartina, P. (2019). Project management for developing a spine" enhanced recovery after surgery" program in a large university-affiliated hospital. *Journal of neurosurgical sciences*, 64(2), 206-212.

#### *Acknowledgements*

Galindo, R., Banks Greenberg, M., Araki, T., Sasaki, Y., Mehta, N., Milbrandt, J., & Holtzman, D. M. (2017). NMNAT3 is protective against the effects of neonatal cerebral hypoxia-ischemia. *Annals of clinical and translational neurology*, 4(10), 722-738.

Movsas, T. Z., Weiner, R. L., Greenberg, M. B., Holtzman, D. M., Galindo, R. (2017). Pretreatment with human chorionic gonadotropin protects the neonatal brain against the effects of hypoxic-ischemic injury. *Frontiers in pediatrics*, 5, 232.

## PEER-REVIEWED PRESENTATIONS AND POSTERS

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**Frank, T.**, Pat-Horenczyk, R., Schiff, M., Grinstein-Weiss, M., Arēnliu, A., Zasiakina, L., Kagialis, A., Ferreira, N., Nesterko, Y., Glaesmer, H., Fernández-Alcántara, M., Benbenishty, R., Jabbari, J., Bessaha, M., Malik, S., Ferris, D., Brickman, S., Harwood-Gross, A. (2022, January). COVID-19 and Students' Well-Being: An International Perspective. In *SSWR's 26<sup>th</sup> Annual Conference (Jan 12-16)*. Society for Social Work and Research. Washington, DC.

- Organized the symposium and was prepared to present one of four abstracts for the in-person SSWR Conference. However, because of the Omicron surge, the symposium was canceled.

**Frank, T.,** Roll, S., Ferris, D., Jabbari, J., Mathews, K., Huang, J., Simpson, K., Gilbert, K., Moreland-Russell, S., Rothman, S., Byrd, A., Nandan, P., Hsu, S., McDermott, L. (2021, October). Fresh Rx: An innovative, evidence-based nutritional intervention in underserved communities. In *APHA's 2021 Annual Meeting and Expo (Oct 24-27)*. American Public Health Association. Denver, CO.

- Presented at Maternal & Child Health: Improving Pregnancy Outcomes Session on Oct. 27 and in Student Engagement Theater on Oct. 25

**Frank, T.,** Jabbari, J., Ferris, D. (2021, October). Mental health and academic difficulties during COVID-19: A structural equation model. In *APHA's 2021 Annual Meeting and Expo (Oct. 24-27)*. American Public Health Association.

**Frank, T.,** Roll, S., Ferris, D., Jabbari, J., Mathews, K., Huang, J., Simpson, K., Gilbert, K., Moreland-Russell, S., Rothman, S., Byrd, A., Nandan, P., Hsu, S., McDermott, L. (2021, September). Holistic Intervention to Promote Health Equity in Food-Insecure Pregnant Women. In *NIH's 2021 Virtual Food Insecurity, Neighborhood Food Environment, and Nutrition Health Disparities: State of the Science (Sep 21-23)*. National Institutes of Health.

**Frank, T.** (2020, October). WELLNESS-Step and Friends Cardio Dancy Party. In *APHA's 2020 VIRTUAL Annual Meeting and Expo (Oct. 24-28)*. American Public Health Association.

**Frank, T. L.,** Deajon-Jackson, J., Hawasli, A., & Dorward, I. (2020, October). Health disparities and opioid addiction in patients with spinal cord injury in Saint Louis. In *APHA's 2020 VIRTUAL Annual Meeting and Expo (Oct. 24-28)*. American Public Health Association.

**Frank, T.,** Vogel, M. (2020, April). Lung cancer diagnosis patterns among U.S. adults: Applying mixed effects modeling to explore the 2017 National Health Interview Survey. In *Brown School's 2020 Research Without Walls*. Washington University in St. Louis.

Jayasekera, D., **Frank, T.,** Glasser, M., Hawasli, A. (2019, October). Multimodal parcellated study of the human connectome in patients with lower back pain. In *Biomedical Engineering Society (BMES) Annual Meeting (Oct. 16-19)*. Biomedical Engineering Society. Philadelphia, PA.

Schmidt, M., Hawasli, A. H., Ray, W. Z., Goad, M., **Frank, T.,** Ellis, E. R., & LaMartina, P. (2019, April). A journey described: Development of a spine “enhanced recovery after surgery” program. In *ASER's American Congress of Enhanced Recovery and Perioperative Medicine (Apr 25-27)*. American Society for Enhanced Recovery. Washington, DC.

**Frank, T.,** Banks Greenberg, M., Holtzman, D. M., Galindo, R. (2017, May). Depletion of sterile-alpha and armadillo motif containing protein 1 (SARM1) protects the immature brain against the neurodegenerative effects of neonatal cerebral hypoxia-ischemia in a caspase-independent manner. In *Hope Center for Neurological Disorders Retreat*. Washington School of Medicine in St. Louis.

## RESEARCH EXPERIENCE

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April 2020 – present

**Doctoral Research Assistant, Social Policy Institute**  
Brown School at Washington University in St. Louis, MO

- Food Insecurity Systematic Review
  - Food insecurity-focused programs and policies on child health outcomes
- Food Insecurity Studies
  - Fresh Rx collaboration with Operation Food Search
  - WIC collaboration with Operation Food Search
- Graduate Students, COVID-19, and Academic Hardships
  - Multi-continental collaboration with institutions from Israel, New York, and Colorado
- National School Lunch Program
  - Mixed-methods research collaboration with Prevention Research Center

August 2019 – present

**Doctoral Research Assistant, Neurosurgery Department**  
Washington University School of Medicine in St. Louis, MO

- Spinal Outcomes (medical outcomes data)
  - Exploration of opioid addiction in patients with spinal disorders
  - Exploration of mental health outcomes in patients with spinal disorders
- Nervous System Imaging (clinical and neuroimaging data)
  - Analyze clinical outcomes data
  - Scan participants with spinal disorders with MRI

August 2017 – August 2019      **Clinical Research Coordinator & Lab Manager**, Neurosurgery Department  
 Lab of Ammar H. Hawasli, MD, PhD  
 Washington University School of Medicine in St. Louis, MO

- Implemented and managed all phases of study: ensured compliance with protocol guidelines and requirements of regulatory agencies; identified problems and inconsistencies and monitored participant's progress to include documentation and reporting of adverse events; acted as delegate for investigator's IRB concerns, resolved IRB/protocol management issues, and recommended corrective action as appropriate; served as liaison with funding or sponsoring agency
- Recruited and enrolled study participants; engaged with participants to explain purpose of study and obtain informed consent; explained diagnostic procedures to address participant/family concerns; administered/scored tests and evaluated all lab and clinical assessments to ensure they were completed in a timely manner
- Evaluated and interpreted collected clinical data in conjunction with PI; prepared oral or written presentations, reports and analyses setting forth progress trends
- Developed and practiced expertise in fMRI computer data analysis and interpretation
- Trained lab personnel on MRI procedures
- Assisted with the technical aspects of the studies and experiment
- Helped with revision of grant proposals
- Submitted manuscripts for publication to scientific journals
- Supervised projects of undergraduate research assistants
- Started research laboratory from the ground up with Dr. Hawasli

October 2015 – August 2017      **Research Technician II**, Neurology Department  
 Lab of Rafael Galindo, MD, PhD  
 Washington University School of Medicine in St. Louis, MO

- Managed animal colonies and performed surgical procedures which included: mating, weaning, micro-dissections, perfusions, hippocampal and cortical extractions, and hypoxia exposures
- Trained undergraduate research assistants
- Assisted with maintenance of research studies and lab conditions which involved: organization and statistical analysis of data, preparation of solutions, compliance with safety procedures, and ordering of equipment and animals
- Performed technical duties in the laboratory which included: brain sectioning, histology, genotyping, immunohistochemistry, immunocytochemistry, enzyme and protein-based biochemical assays, western blot analysis, cell culture, tissue culture, standard PCR, quantitative PCR, and DNA and RNA purification

May 2013 – December 2014      **Undergraduate Research Assistant**, Department of Otolaryngology  
 Lab of Jonathan Peelle, PhD  
 Washington University School of Medicine in St. Louis, MO

- Developed and created stimuli for use in senior honors thesis projects and research experiments
- Analyzed data from research experiments using experimental and psychological statistics
- Trained to operate neuroimaging equipment which included: Functional Magnetic Resonance Imaging (fMRI) and High-Density Diffuse Optical Tomography (HD-DOT)
- Organized physical and electronic data into their respective files

## **TEACHING EXPERIENCE**

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**Washington University in St. Louis**

2021 **Teaching Assistant**, Doctoral Programs at Brown School  
Course: Introduction to Advanced Research (Instructor: Sheretta Butler-Barnes, PhD)  
Responsibilities: Facilitated class discussions and activities, graded assignments, led consultations with students, coordinated breakout rooms, and taught the following lectures: Cross-Sectional and Quasi-Experimental Designs, Observational Methods, and Secondary Data

**Teaching Assistant**, Master of Public Health Program at Brown School  
Course: From the Inside-Out: Public Health and the Built Environment (Instructor: Rodrigo S. Reis, PhD)  
Responsibilities: Facilitated class discussions and activities, coordinated breakout rooms, and liaised with guest lecturers

Course: Program Planning, Implementation, and Evaluation (Instructor: Patrick J. Fowler, PhD)  
Responsibilities: Facilitated class discussions and activities, graded assignments, led consultations with students, coordinated breakout rooms, and taught the following lectures: Strategies, Activities, Objectives, and Goals; Quasi-Experimental Designs

2020 **Teaching Assistant**, Doctoral Programs at Brown School  
Course: Introduction to Advanced Research (Instructor: Sheretta T. Butler-Barnes, PhD)  
Responsibilities: Facilitated class discussions and activities, graded assignments, led consultations with students, coordinated breakout rooms, and taught the following lectures: Cross-Sectional and Quasi-Experimental Designs, Observational Methods, and Secondary Data

**Teaching Assistant**, Master of Public Health Program at Brown School  
Course: Cross-Cutting Themes in Public Health (Instructor: Angela Hobson, PhD, MPH)  
Responsibilities: Facilitated class discussions and activities, coordinated breakout rooms, and liaised with guest lecturers

**The Intern Group, Dublin, Ireland**

2021 **Speaker and Organizer**, Daughters of Africa Foundation in The Gambia, West Africa  
Workshop: Delivering Community Health Assessments (Three-day Series)  
Responsibilities: Created flyer for the event, prepared lecture materials, facilitated discussions and activities, and taught the young people about the fundamentals of a community health assessment

**LEADERSHIP EXPERIENCE**

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July 2021 – August 2021 **Summer Intern**, Daughters of Africa Foundation in The Gambia, West Africa  
The Intern Group, Dublin, Ireland

August 2020 – present **Peer Mentor for First-Year PhD Students**  
Brown School at Washington University in St. Louis, MO

September 2018 – present **Professionally Certified Group Fitness Instructor**  
PLNK Fitness, St. Louis  
CycleBar Richmond Heights and Creve Coeur, St. Louis  
Sumers Recreation Center at Washington University in St. Louis

August 2018 – present **Young Alumni Network Chair**, Alumni Association  
Washington University in St. Louis

May 2014 – August 2015 **Conference Assistant**, Summer Programs & Conference Services  
Washington University in St. Louis

August 2013 – May 2015 **Resident Advisor**, Office of Residential Life  
Washington University in St. Louis

- August 2013 – May 2014      **ThurtenE Music Director, Social Justice Chair**, Sigma Nu Fraternity  
Washington University in St. Louis
- April 2012 – May 2013      **Washington University Student Associate**, First Year Center  
Washington University in St. Louis

## **PROFESSIONAL & COMMUNITY SERVICE**

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### **University Service**

#### **Washington University in St. Louis**

- 2021 – present      Student Ambassador, Graduate Policy Scholars Program
- 2021      Facilitator, Social Policy Institute Roundtable, Community Centered Data Practice  
Topic: Data Protection, Data Sharing, and Who Benefits?  
Social Policy Institute Associate Director Search Committee  
Presenter, Graduate Policy Scholars Showcase  
Topic: Environmental Justice: Advocating for Underrepresented Communities
- 2020 – present      Lecturer and Creator, Data and Statistics for Policy Practice, Social Policy Institute  
Topics: Data Management in R Software; Data Management in Microsoft Excel  
Roles: Co-created the program in 2020 and refined the program for subsequent cohorts of graduate students
- 2020      Social Policy Institute Project Coordinator Search Committee
- 2018      Volunteer, Operation Brightside
- 2017      Volunteer, Boys Hope Girls Hope St. Louis
- 2013-2015      Volunteer, Beat Therapy

### **Professional Service**

- 2021 – present      Student Communications Chair, Society for Implementation Research Collaboration
- 2021      Reviewer, American Public Health Association Physical Activity Section

## **PRESS**

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- 2021      News Feature about Graduate Policy Scholars 2021 Cohort  
<https://socialpolicyinstitute.wustl.edu/celebrating-2021-graduate-policy-scholars/>
- 2020      Interview with Social Policy Institute about Data and Statistics for Policy Practice  
<https://socialpolicyinstitute.wustl.edu/spi-introduces-data-science-program-with-brown-school/>

## **AWARDS**

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- 2018      **Outstanding Citizenship Award**, Applied Health Behavior Research Master's Program  
Clinical Research Training Center, Washington University School of Medicine in St. Louis

## **PROFESSIONAL MEMBERSHIPS**

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- American Public Health Association  
Association for Public Policy Analysis & Management  
Society for Implementation Research Collaboration  
The American Council on Exercise