

Curriculum Vitae
Tyler L. Frank, M.S.
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PRESENT POSITION

PhD Scholar, Public Health Sciences Program, Brown School at Washington University in St. Louis

EDUCATION

Washington University School of Medicine in St. Louis, MO

Master of Science, May 2018

Graduate Program: Applied Health Behavior Research

Washington University in St. Louis, MO

Bachelor of Arts, May 2015

Major: Psychology, Minor: Music

RESEARCH EXPERIENCE

Washington University School of Medicine, Neurosurgery Department

St. Louis, MO

Clinical Research Coordinator & Manager, Lab of Ammar H. Hawasli, MD, PhD

August 2017 – August 2019

- Implements and manages all phases of study: ensures compliance with protocol guidelines and requirements of regulatory agencies; identifies problems and inconsistencies and monitors participant's progress to include documentation and reporting of adverse events; acts as delegate for investigator's IRB concerns, resolves IRB/protocol management issues, and recommends corrective action as appropriate; serves as liaison with funding or sponsoring agency
- Recruits and enrolls study participants; engages with participants to explain purpose of study and obtain informed consent; explains diagnostic procedures to address participant/family concerns; administers/scores tests and evaluates all lab and clinical assessments to ensure they are completed in a timely manner
- Evaluates and interprets collected clinical data in conjunction with PI; prepares oral or written presentations, reports and analyses setting forth progress trends
- Develops and practices expertise in fMRI computer data analysis and interpretation
- Trains lab personnel on MRI procedures
- Assists with the technical aspects of the studies and experiment
- Helps with revision of grant proposals
- Submits manuscripts for publication to online journals
- Supervises projects of undergraduate research assistants
- Started research laboratory from the ground up with Dr. Hawasli

Washington University School of Medicine, Neurology Department

St. Louis, MO

Full-time Research Technician II, Lab of Rafael Galindo, MD, PhD

October 2015 – August 2017

- 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

Washington University School of Medicine, Department of Otolaryngology

St. Louis, MO

Undergraduate Research Assistant, Lab of Jonathan Peelle, PhD

May 2013 – December 2014

- 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

CLINICAL EXPERIENCE

Barnes-Jewish Hospital, Emergency Department
MedPrep II Student

St. Louis, MO
January 2015 – May 2015

- Shadowed physicians, residents, and medical school students in the emergency department
- Observed the evaluation and treatment of patients through a behind-the-scenes view of clinical medicine

CLASSROOM EXPERIENCE

University College at Washington University
Introduction to Statistical Programming with R

St. Louis, MO
June 2018 – December 2018

- Used R to solve data problems, write eloquent and efficient code, and gain skills in researching bugs in code

Neural Basis of Behavior

- Wrote a case study through an online group project; investigated the neurobiology of behaviors

Washington University School of Medicine
Epidemiology for Clinical Research

St. Louis, MO
September 2016 – May 2018

- Article Critique of Published Study, Research Study Proposal in NIH format

Evaluation of Health Services Programs

- Health Program Evaluation Methodology, Health Program Evaluation Proposal and Elevator Pitch

Foundations of Health Care Research

- Literature Review, Secondary Analysis in Poster Presentation, Full Research Paper

Introduction to Biostatistics

- Probability, Descriptive Statistics, Inference for Means and Proportions, Regression, and SPSS applications

Project Management in Clinical and Community Settings

- IRB Guidelines, Consent Form, Recruitment Letter and Flyer, Recruitment Tracking Database, Survey via Qualtrics

PUBLICATIONS

Co-author

June 2019

- Hawasli AH, Ray WZ, Goad M, Frank T, Ellis E, Schmidt M, LaMartina P. Project management for developing a spine “Enhanced Recovery After Surgery” program in a large university-affiliated hospital. *J Neurosurg Sci*. 2019. Published 2019 June 12. doi: 10.23736/S0390-5616.19.04669-1

Acknowledgements

November 2017

- Movsas TZ, Weiner RL, Greenberg MB, Holtzman DM, Galindo R. Pretreatment with Human Chorionic Gonadotropin Protects the Neonatal Brain against the Effects of Hypoxic-Ischemic Injury. *Front Pediatr*. 2017;5:232. Published 2017 Nov 3. doi:10.3389/fped.2017.00232

August 2017

- Galindo R, Banks Greenberg M, Araki T, et al. NMNAT3 is protective against the effects of neonatal cerebral hypoxia-ischemia. *Ann Clin Transl Neurol*. 2017;4(10):722-738. Published 2017 Aug 30. doi:10.1002/acn3.450

PRESENTATIONS

Washington University School of Medicine
Hope Center for Neurological Disorders Retreat

St. Louis, MO
May 2017

- 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

CONFERENCES AND COURSES

Esri: The Science of Where

Online

- Getting Started with GIS

Washington University in St. Louis

St. Louis, MO

- Institute of Clinical and Translational Sciences (ICTS) Symposium: “From Clinical Discovery to Community Impact.” January 2019
- Institute for Public Health Annual Conference: “Action Toward Health Equity.” October 2018
- Neuroscience Retreat. October 2018
- Necessary Elements in the Fundamentals of Human Research. April – May 2018
- Global Health & Infectious Disease Conference: “Science to Solutions: Antimicrobial Resistance.” April 2018
- Neuroscience Retreat. October 2017
- Institute for Public Health Annual Conference: “The Case for Evidence-Based Public Health.” September 2017
- Accelerating Clinical Coordinator Excellence (ACCE) Onboarding Training. September 2017
- Hope Center for Neurological Disorders Retreat. May 2017
- Institute for Public Health Annual Conference: “Mental Health is Public Health.” November 2016
- Hope Center for Neurological Disorders Retreat. May 2016
- 9th Leonard Berg Symposium: “Sleep and Neurodegeneration: A Bidirectional Relationship?” October 2015

National Institutes of Health Clinical Center

Bethesda, MD

- Introduction to the Principles and Practice of Clinical Research. July 2018

National Association of Health Services Executives

St. Louis, MO

- Annual Health Disparities Symposium: “Opioid Epidemic.” June 2017

LEADERSHIP EXPERIENCE

Young Alumni Network

St. Louis, MO

Chair, Washington University in St. Louis

August 2018 – present

- Plan events for young alumni to stay engaged, network, and volunteer within the St. Louis community

Office of Residential Life

St. Louis, MO

Resident Advisor

August 2013 – May 2015

- Charged with the safety, and well-being of residents, ranging from 40 to 100+ students
- Responsible for completing a variety of tasks which included: conflict mediation and crisis intervention; presenting and facilitating meetings for students; administrative duties and large-scale event planning; serving as a liaison between faculty members, staff, and students

Sigma Nu Fraternity

St. Louis, MO

ThurtenE Music Director

September 2014 – April 2015

- Arranged all music for the production and directed the band, singers, and cast of the Delta Gamma and Sigma Nu chapters

Social Justice Chair

August 2013 – May 2014

- Acted as a resource within the fraternity for social justice and diversity and inclusion conversations
- Served as a liaison between the fraternity and Washington University community for social justice concerns

First Year Center

St. Louis, MO

Washington University Student Associate

April 2012 - May 2013

- Lead freshman orientation, facilitated first year programs, and worked as an academic resource for first year students

PROFESSIONAL EXPERIENCE

Summer Programs and Conference Services

Conference Assistant

St. Louis, MO
May 2014 – August 2015

- Served as a resource for conference guests and summer residents
- Assisted with conference setup, programming access cards, attendee check-in, and room setups
- Rotated an on-call phone overnight and responded to all situations
- Served as a liaison between Washington University and summer participants

COMMUNITY SERVICE

Operation Brightside

Volunteer

St. Louis, MO
June 2018

- Cleaned and assisted with tasks to make the St. Louis region cleaner and more environmentally sustainable

Boys Hope Girls Hope St. Louis

Volunteer

St. Louis, MO
April 2017

- Worked on improvement projects and interacted with scholars of the program

Beat Therapy, Hillside Manor

Volunteer

St. Louis, MO
August 2013 – May 2015

- Performed with the Stereotypes all-male a cappella group for senior citizens; used music as a catalyst for facilitating connection between students and residents and for understanding differences that transcend age, ability, and perspective

AWARDS

Washington University School of Medicine

Clinical Research Training Center, Applied Health Behavior Research

St. Louis, MO
May 2018

- Outstanding Citizenship Award

SKILLS

- Research: Manager of clinical research lab; MRI Level II Technician with expertise in training new MRI personnel
- Mathematics: Proficient in statistical analysis via R, SPSS, MATLAB and GraphPad
- Computer: Proficient in R, MATLAB, and SAS programming; Microsoft (Word, Excel, Access, and PowerPoint), REDCap, Geographic Information System (GIS)
- Training and Certification: MRI Level II Technician, Health Insurance Portability and Accountability Act (HIPAA), Human Subjects Education (CITI), Environmental Health & Safety (EHS), Division of Comparative Medicine (DCM)
- Language: Proficient in Spanish