Lea E. Frank

EDUCATION



Purpose: To find an applied research or data science position that I find both challenging and fulfilling. I am interested in work that addresses complex questions regarding human behavior and cognition, health, public policy, or other social sciences. I am passionate and driven, and eager to apply my technical and statistical knowledge towards solving real-world problems.

2017 - Present	Ph.D. in Psychology Data Science Specialization	Programming R, Matlab, Python, Bash/Shell Scripting, Git
	University of Oregon, OR	
2016 - 2017	M.S. in Psychology	Statistical analysis GLM, SEM, Bayesian, machine learning
2010 2017	Wi.G. III i Gyoriology	ozivi, ozivi, bayesiari, mashine rearning

TECHNICAL SKILLS

Neuroimaging 2010 – 2014 B.A. in Psychology Connectivity, univariate & multivariate fMRI

University of Oregon, OR

Marist College, NY

RESEARCH EXPERIENCE

2016 – Present Graduate Student

PI - Dr. Dagmar Zeithamova

Brain and Memory Lab, University of Oregon, OR

2014 – 2016 Research Assistant

Pls – Drs. Denise Krch & Nancy Chiaravalloti

Traumatic Brain Injury Lab, Kessler Foundation, NJ

2014 Intern

PIs - Drs. Russell Tobe & Anna MacKay-Brandt

Clinical Research Department, Nathan S. Kline Institute, NY

2013 – 2014 Student Research Assistant

PI - Dr. Kristin Jay

WTF Lab, Marist College, NY

PUBLICATIONS

Journal Articles

Frank, L.E.*, Bowman, C.R.*, & Zeithamova, D. (2019). Differential functional connectivity along the long axis of the hippocampus aligns with differential role in memory specificity and generalization. *Journal of Cognitive Neuroscience*, 31(12), 1958-1975.

Frank, L.E., Preston, A.R. & Zeithamova, D. (2019). Functional connectivity between memory and reward centers across task and rest track memory sensitivity to reward. *Cognitive, Affective and Behavioral Neuroscience*, 19(3), 503-522.

Krch, D., Frank, L.E., Chiaravalloti, N.D., Vakil, E., DeLuca, J. (2019). Cognitive reserve protects against memory decrements associated with neuropathology in traumatic brain injury. *Journal of Head Trauma Rehabilitation*, 34(5), E57-E65

Zeithamova, D., Gelman, B.D., Frank, L.E. & Preston, A.R. (2018). Abstract representation of prospective reward in the hippocampus. *Journal of Neuroscience*, *38*(47), 10093-10101.

* These authors contributed equally to this work.

CONFERENCE PRESENTATIONS

Symposia

Elliott, O.K., Ashby, S.R., Frank, L.E., Iwashita, T. & Zeithamova, D. (2019). Memory specificity in color and location. *Presented at the Apprenticeships in Science and Engineering Symposium, Portland, OR.*

Posters

Krch, D., Frank, L.E. & Weber, E. (2021). PPVT impacted by neuropathology in moderate to severe TBI. Poster to be presented at the 41st Annual Conference on Neuropsychology and Neurorehabilitation, Washington, D.C.

Frank, L.E. & Zeithamova, D. (2021). Individual differences in anterior and posterior hippocampal connectivity and their relationship to memory specificity and generalization. *Poster to be presented at the 50th Annual Society for Neuroscience Conference, virtual.*

Bissert, T., Frank, L.E. & Zeithamova, D. (2021). Differential functional connectivity of anterior and posterior hippocampus. *Poster presented at the University of Oregon Undergraduate Research Symposium*.

Frank, L.E., Ashby, S.R. & Zeithamova, D. (2021). Individual differences in memory generalization. *Poster presented at Cognitive Neuroscience Society 28th Annual Meeting, virtual.*

Maldonado, C., Frank, L.E. & Zeithamova, D. (2020). Memory specificity and generalization: Competing or complementary processes? *Poster presented at the University of Oregon Undergraduate Research Symposium*.

Kendrick, R., Frank, L.E. & Zeithamova, D. (2020). Memory representations contain conceptual and perceptual information. *Poster presented at the University of Oregon Undergraduate Research Symposium*.

Jackson, R., Frank, L.E. & Zeithamova, D. (2020). Augmented reality biofeedback and effects on stress, mood, and measures of memory encoding. *Poster presented at the University of Oregon Undergraduate Research Symposium*.

Zhou, S., Frank, L.E. & Zeithamova, D. (2019). The effect of absolute value vs. relative value of reward on associative memory. Poster presented at the University of Oregon Psychology Department's Annual Poster Presentation for Honors Student.

Frank, L.E., Bowman, C.R. & Zeithamova, D. (2019). Distinct connectivity patterns of anterior and posterior hippocampus. *Poster presented at Cognitive Neuroscience Society 26th Annual Meeting, San Francisco, CA*.

Krch, D., Frank, L.E., Chiaravalloti, N.D., Vakil, E., DeLuca, J. (2019). Cognitive reserve protects against memory decrements associated with neuropathology in traumatic brain injury. *Paper presented at the International Neuropsychological Society 47th Annual Meeting, New York, NY.*

Frank, L.E., Bowman, C.R. & Zeithamova, D. (2018). Distinct connectivity patterns along the hippocampal anterior-posterior axis. *Poster presented at the 48th Annual Society for Neuroscience Conference, San Diego, CA.*

Frank, L.E., Zeithamova, D. & Preston, A.R. (2017). Intrinsic connectivity between memory and reward centers predict individual differences in reward-motivated learning. *Poster presented at the 47th Annual Society for Neuroscience Conference, Washington, D.C.*

Krch, D. & Frank, L.E. (2017). Gender differences in neurobehavioral functioning in chronic TBI. Poster presented at the International Brain Injury Association's 12th World Congress on Brain Injury, New Orleans, LA.

Frank, L.E., Zeithamova, D. & Preston, A.R. (2017). Resting-state medial temporal lobe connectivity with reward centers predicts how motivation impacts learning. Poster presented at Cognitive Neuroscience Society 24th Annual Meeting, San Francisco, CA.

Krch, D., Ward, I., Lange, B., Kesten, A.G., Cording, C.M., Frank, L.E., Mejia, M., Chervin, K., König, S., Chang, C.Y., Rizzo, A., Jasey, N.J. & Nolan, K.J. (2016). A systematic delivery for multisensory balance impairment using virtual reality in TBI. Poster presented at the American Congress of Rehabilitation Medicine 92nd Annual Conference, Chicago, IL.

Frank, L.E. & Jay, K. (2014). Sensory integration in flavor perception. Poster presented at the 68th Annual Eastern Colleges Science Conference, Marist College, Poughkeepsie, NY.

Frank, L.E. & Jay, K. (2014). Sensory integration in flavor perception. Poster presented at the Celebration of Undergraduate Research, Scholarship, & Creativity (CURSCA), Marist College, Poughkeepsie, NY.

FELLOWSHIPS, AWARDS AND HONORS

2019	The Psychonomic Society's Best Article of the Year Award for Cognitive, Affective and Behavioral Neuroscience
2019	Peter O'Day Fellowship in Biological Sciences, University of Oregon
2016 - 2019	Annual Psychology Department Travel Award, University of Oregon
2014	Eastern Colleges Science Conference Award of Excellence for outstanding poster
2014	Magna cum laude, Marist College
2013	Vice President for Academic Affairs Student Research Grant
2010 - 2014	Dean's List, Marist College

MENTORSHIP

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2021	High school intern through the Apprenticeships in Science and Engineering's
	Saturday Academy Program
2021	Trevor Bissert, Psychology Program
2020	Ray Jackson, Psychology Honors Program
2020	Celina Maldonado, Psychology Program
2019 - 2020	Rennie Kendrick, Honors College
2018 - 2019	Shijing Zhou, Psychology Honors Program
2018	Neuroimaging workshop for student research assistants and interns

OUTREACH

2018 - 2021	Mental Time Travel
	Annual workshop for Summer Academy to Inspire Learning, Eugene, OR
2018 - 2019	Mental Time Travel
	Annual workshop for Apprenticeships in Science and Engineering's Saturday
	Academy Program, Corvallis, OR
2018 - 2019	Institute of Neuroscience Bootcamp
	Neuroimaging workshop for incoming graduate students, Eugene, OR
2016 - 2019	Science Open House
	Annual Science Program to Inspire Creativity and Excellence, Eugene, OR

2018

Brain Awareness Week

Workshop for brain sciences at local elementary school, Eugene, OR

TEACHING EXPERIENCE

Fall 2020 Applied Data Analysis (PSY 412/512), lab instructor

Summer 2020 Statistical Methods in Psychology (PSY 302), lab instructor Spring 2020 Learning & Memory (PSY 433/533), teaching assistant Statistical Methods in Psychology (PSY 302), lab instructor

Cognition (PSY 305), teaching assistant

Fall 2019 Applied Data Analysis (PSY 412/512), lab instructor

Winter 2018, Spring

2019

Fall 2018

Applied Data Analysis (PSY 412/512), lab instructor

Fall 2017, Spring 2018 Statistical Methods in Psychology (PSY 302), lab instructor

PROFESSIONAL MEMBERSHIPS

2019 - Present
2017 - Present
2016 - Present
2017 - Women in Graduate Sciences, University of Oregon Chapter
2016 - 2017 - Eastern Psychological Association, Associate Member
2013 - 2014 - Present Psychology, Marist College Chapter