

# L. Forest Gruss Rosenfeld

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## ACADEMIC POSITIONS

- 2022 – present **Assistant Professor of Psychology**  
University of Tampa, Tampa, Florida
- 2021 – 2022 **Visiting Professor of Psychology**  
Eckerd College, St. Petersburg, Florida
- 2019 – 2020 **Postdoctoral Scholar** in Psycho-Oncology  
University of South Florida, College of Nursing, Tampa, Florida
- 2017 – 2019 **Postdoctoral Scholar** in Psychology  
Vanderbilt University, Nashville, Tennessee
- 2010 – 2012 **Postbaccalaureate Researcher**  
University of Florida, Center for the Study of Emotion and Attention (CSEA)  
Gainesville, Florida

## EDUCATION

- 2017 **University of Florida**, Gainesville, Florida  
**Ph.D.** in Psychology, Concentration: Behavioral and Cognitive Neuroscience  
Advisor: Dr. Andreas Keil, at the Center for the Study of Emotion and Attention (CSEA)  
Dissertation: ‘*Deconstructing expectancy in human aversive learning: evidence from neurophysiological and behavioural dynamics.*’
- 2014 **University of Florida**, Gainesville, Florida  
**M.S.** (2014) and **B.S.** in Psychology (2010)  
Master’s thesis: ‘*Fear memories in visual cortex: Inter-individual differences related to the COMT val158met polymorphism and reflex physiology.*’
- 2004 Mathematisch-Naturwissenschaftliches Gymnasium Rämibühl MNG, Zürich, Switzerland  
**Matura** in Mathematics and Natural Sciences

## PEER-REVIEWED PUBLICATIONS

- [16] **Rosenfeld, L. F. G.**, & Keil (in prep). Rapid threat anticipation as evidenced by simultaneous ssVEP responses and alpha suppression during Pavlovian conditioning.
- [15] **Gruss, L. F.**, Lengacher, C. A., Reich, R. R., Moscoso, M. S., Gordillo-Casero, L., Joshi, A., Hamilton, L., Chauca, K. (under review). Mindfulness-based stress reduction for breast cancer survivors MBSR(BC) improves self-reported optimism.
- [14] Lengacher, C. A., Kip, K. E., Reich, R. R., Rodriguez, C., Meng, H., Donovan, K., **Gruss, L. F.**, Nguyen, A. T., Moscoso, M. S., Goodman, M., Chauca, K., Joshi, A., Gordillo-Casero, L., Hamilton, L., Park, J. Y. (under review). Mindfulness-based stress reduction trial for cognitive impairment in breast cancer survivors: the design and an analysis plan of a 3-armed randomized controlled trial.
- [13] **Gruss, L. F.** (re-submission). Interactions of transient and oscillatory evoked potentials during visual search: revisiting the classical superposition theory with steady state visual evoked potentials.

- [12] Rosenfeld, J. A., Kamalapurkar, R., **Gruss, L. F.**, & Johnson, T. T. (2021). On the occupation kernels, Liouville operators, and dynamic mode decomposition. *In 2021 American Control Conference (ACC)*, IEEE.
- [11] Lengacher, C. A., **Gruss, L. F.**, Kip, K. E., Reich, R. R., Chauca, K. G., Moscoso, M., Joshi, A., Tinsley, S., Shani, P. B., Cousin, L., Khan, C. P., Goodman, M., & Park, J. Y. (2021). Mindfulness-based stress reduction for breast cancer survivors (MBSR(BC)): evaluating mediators of psychological and physical outcomes in a large randomized controlled trial. *Journal of Behavioral Medicine*, 44(5), 591-604.
- [10] Rosenfeld, J. A., Kamalapurkar, R., **Gruss, L. F.**, & Johnson, T. T. (2021). Dynamic mode decomposition for continuous time systems with the Liouville operator. *Journal of Nonlinear Science*, 32(1), 1-30.
- [9] **Gruss, L. F.**, & Keil, A. (2019). Sympathetic responding to unconditioned stimuli predicts subsequent threat expectancy, orienting, and visuocortical bias in human aversive Pavlovian conditioning. *Biological Psychology*, 140, 64-74.
- [8] Campagnoli, R. R., Wieser, M. J., **Gruss, L. F.**, Boylan, M. R., McTeague, L. M., & Keil, A. (2019). How the visual brain detects emotional changes in facial expressions: Evidence from driven and intrinsic brain oscillations. *Cortex*, 111, 35-50.
- [7] Thigpen, N. N., **Gruss, L. F.**, Garcia, S., Herring, D., & Keil, A. (2018). What does the dot-probe task measure? A reverse correlation analysis of electrocortical activity. *Psychophysiology*, 55(6), e13058.
- [6] Blessing, A., Studer, A., Gross, A., **Gruss, L. F.**, Schneider, R., & Dammann, G. (2017). Disclosure of diagnosis in early recognition of psychosis. *Journal of Nervous & Mental Disease*, 205(10), 757-761.
- [5] Petro, N. M., **Gruss, L. F.**, Yin, S., Huang, H., Miskovic, V., Ding, M., & Keil, A. (2017). Multimodal imaging evidence for a fronto-cortical modulation of visual cortex during the selective processing of conditioned threat. *Journal of Cognitive Neuroscience*, 29(6), 953-967.
- [4] **Gruss, L. F.**, Langae, T., & Keil, A. (2016). The role of the COMT val158met polymorphism in mediating aversive learning in visual cortex. *Neuroimage*, 125, 633-642.
- [3] McTeague, L. M., **Gruss, L. F.**, & Keil, A. (2015). Aversive learning shapes neuronal orientation tuning in human visual cortex. *Nature Communications*, 6, 7823.
- [2] **Gruss, L. F.**, Wieser, M. J., Schweinberger, S. R., & Keil, A. (2012). Face-evoked steady-state visual potentials: effects of presentation rate and face inversion. *Frontiers in Human Neuroscience*, 6, 316.
- [1] Blessing, A., Keil, A., **Gruss, L. F.**, Zollig, J., Dammann, G., & Martin, M. (2012). Affective learning and psychophysiological reactivity in dementia patients. *International Journal of Alzheimer's Disease* vol. 2012.

## RESEARCH SUPPORT

- 2023 **NSF MRI** (Major Research Instrumentation; in preparation for November 2023 submission) (NSF 18-513) – Equipment: MRI: Track 1 Acquisition of an electroencephalography (EEG) system to investigate cognitive control processes before and after mindfulness meditation practice.  
Role: Principal Investigator (Rosenfeld)  
Total funds requested: \$90,907
- 2020 **NIH/NCI K99/R00** (submitted June 12<sup>th</sup>, 2020; not awarded October, 2020)

(PA-20-188) – Neurobiological Mechanisms of Fear Underlying Fear of Recurrence and Cancer-Related Post-Traumatic Stress among Young Breast Cancer Survivors  
 Role: Principal Investigator (Rosenfeld)  
 Total funds requested: \$1,016,253

- 2019 **NIH/NIMH NRSA T32** (turned down due to relocation)  
 Training Grant at Vanderbilt University – Clinical neuroscience methodology to investigate developmental psychopathology: threat learning across the anxiety spectrum
- 2017 **NIH/NEI T32** (not awarded)  
 Training Grant at the VVRC (Vanderbilt Vision Research Center) – Cortical interactions of visual cognitive processing underlying expectancy, error evaluation and prediction in human and non-human primates
- 2016 **American Psychological Foundation’s (APF) 2016 F. J. McGuigan Dissertation Award** – supporting dissertation research that advances the unified brain-behavior conceptualization of the human mind through empirical and/or theoretical research; \$2,000 for genotyping costs  
**E. Porter Horne Memorial Scholarship** – for Best graduate work in sensory processes, perception, and/or cognitive psychology - \$1,000
- 2015 – 2016 **Travel awards** (\$500) via the Department of Psychology for annual conference meetings
- 2012 – 2016 **Four-year Fellowship** through the Graduate School Fellowship (GSF) Awards program - \$5,000 per academic year

## TEACHING EXPERIENCE

### University of Tampa

2022/2023	Fall/Spring	Fundamentals of Biopsychology and Learning	<i>(PSY 220, Assistant Professor)</i>
		Statistics and Experimental Methods I	<i>(PSY 211, Assistant Professor)</i>
	Spring	Behavioral Neuroscience	<i>(PSY 420, Assistant Professor)</i>

### Eckerd College

2021/2022	Fall/Spring	Introduction to Psychology	<i>(PS 101S, Visiting Professor)</i>
		Biopsychology	<i>(PS 309, Visiting Professor)</i>
	Winter Term	PTSD and the Brain	<i>(WT 5S, Special Topics course, Visiting Professor)</i>

### University of Florida

2017	Spring	Psychobiology of Abnormal Behavior	<i>(PSB 4240, Teaching Assistant)</i>
2016	Fall	Physiological Psychology	<i>(PSB 3002, Instructor of Record)</i>
	Spring	Psychobiology of Abnormal Behavior	<i>(PSB 4240, Teaching Assistant)</i>
2015	Fall	Laboratory in Cognitive Neuroscience	<i>(PSB 4343C, Teaching Assistant)</i>
	Spring	Psychobiology of Abnormal Behavior	<i>(PSB 4240, Teaching Assistant)</i>
2014	Fall	Sensory Processes Laboratory	<i>(EXP 4174C, Teaching Assistant)</i>

## ACADEMIC SERVICES

2012 – present **Reviewer** for academic journals: Biological Psychology, NeuroImage, Neuropsychologia,

Psychoneuroendocrinology, Psychophysiology, Social Cognitive and Affective Neuroscience, Human Brain Mapping, Journal of Cognitive Neuroscience, Plos One, International Journal of Behavioral Medicine

- 2020 **Research Committee Member, APOS** (American Psychosocial Oncology Society)  
Associate Member
- 2016 **K-12 Outreach Volunteer** as part of the Brain Awareness Week hosted by the local North Central Florida Chapter of Society of Neuroscience (SfN) in Gainesville, FL, March 14<sup>th</sup>-19<sup>th</sup>
- 2014 – 2016 **Behavioral and Cognitive Neuroscience Representative** of the Psychology Graduate Student Organization (PGSO) at the University of Florida

## CONFERENCES & WORKSHOPS

- 2023 **Mindfulness Mechanisms & Methods Meeting (M4)** Conference  
Washington University in St. Louis, St. Louis, MO, Oct 5<sup>th</sup> – 6<sup>th</sup>, 2023  
Attended virtually.
- Society for Psychophysiological Research (SPR)**, 63<sup>rd</sup> Annual Meeting  
New Orleans, LA, September 27<sup>th</sup> - October 1<sup>st</sup>, 2023  
Attended in person.
- 2022 **NSF Virtual Grants Conference**, Fall 2022  
Virtual Meeting, Nov 14-17<sup>th</sup>, 2022  
Sessions attended: Proposal preparation, Major Research Instrumentation (MRI) Program, Directorate for Social, Behavioral and Economic Sciences (SBE), Directorate for Biological Sciences (BIO)
- PTSD and the Brain**, Special Topics seminar  
Eckerd College Winter Term, invited guest lecturers during January 24-28<sup>th</sup>, 2022
- *Dr. Sara Hofmann, Clinical Psychologist (PTSD), Eckerd College*
  - *Dr. Lisa McTeague, Clinical Psychologist (PTSD) and Researcher, MUSC*
  - *Southeastern Guide Dogs, Teaching Demo with Service Dogs trained for Veterans with PTSD*
- 2020 **Society for Psychophysiological Research (SPR)**, 2020 Virtual Annual Meeting  
Virtual Meeting, October 5-9<sup>th</sup>, 2020  
Poster (1<sup>st</sup> author, accepted): *'Interactions of transient and oscillatory evoked potentials during visual search: revisiting the classical superposition theory with steady state visual evoked potentials (ssVEPs)'*
- Society for Neuroscience (SfN) Webinar**, July 29<sup>th</sup>, 2020  
COVID-19, the Brain, and Mental Health: Weighing the Direct and Indirect Effects (attended)
- New Knowledge & Innovation Conference, 2020 SMHCS** (Sarasota Memorial Health Care System), hosted by Sarasota Memorial Hospital – Converted to virtual due to COVID-19 Pandemic; Sarasota, FL, May 1<sup>st</sup>, 2020  
Poster (3<sup>rd</sup> author): *'A pilot study evaluating the effect of mindfulness-based stress reduction on cardiovascular functioning among breast cancer survivors (BCS)'*
- American Psychosocial Oncology Society (APOS)**, 17<sup>th</sup> Annual Meeting  
Portland, OR, March 11-13<sup>th</sup>, 2020 – Converted to virtual due to COVID-19 Pandemic  
Poster (3<sup>rd</sup> author): *'A pilot study evaluating the effect of mindfulness-based stress reduction on cardiovascular functioning among breast cancer survivors (BCS)'*

- JMP Pro Workshop**, hosted by the USF Graduate and Professional Student Council (attended)  
Tampa, FL, January 31<sup>st</sup>, 2020
- 2019 **Society for Psychophysiological Research (SPR)**, 59<sup>th</sup> Annual Meeting  
Washington, DC, September 25-29<sup>th</sup>, 2019  
Invited Symposium – Faces of the Future Flash Talk: *‘Neuronal orientation tuning under changing threat contingencies: Oscillatory specificity of safety learning during fear generalization’*
- USF Postdoctoral Research Symposium**  
University of South Florida, Tampa, September 20<sup>th</sup>, 2019  
Research Lightning Talk: *‘To fear or not to fear: safety learning in human visual cortex’*
- 2018 **Vision Sciences Society (VSS)**, 18th Annual Meeting  
St. Petersburg, FL, May 18-23<sup>rd</sup>, 2018  
Poster (5<sup>th</sup> author): *‘Oscillatory dynamics in widespread cortical networks during feature-based attention: coupling across and between frequencies.’*
- 2017 **Society for Psychophysiological Research (SPR)**, 57<sup>th</sup> Annual Meeting  
Minneapolis, MN, September 21-25<sup>th</sup>, 2017  
Poster (2<sup>nd</sup> author): *‘Tagging the neurophysiological mechanisms of competing spatially overlapping visual stimuli using simultaneously recorded electrocortical and hemodynamic signals’*  
Poster (2<sup>nd</sup> author): *‘The neural signature of viewing dynamic emotional faces: complementary contributions of evoked versus induced oscillatory brain activity’*  
Poster (5<sup>th</sup> author): *‘Selective attention to targets is accompanied by cortical synchrony in the theta-band and increases in gamma power in frontal and temporal regions’*
- 2016 **Society for Neuroscience (SfN)**, 46<sup>th</sup> Annual Meeting  
San Diego, CA, November 12-16<sup>th</sup>, 2016  
Dynamic Poster (1<sup>st</sup> author): *‘Deconstructing expectancy in human aversive learning: evidence from visuocortical, physiological and behavioural dynamics’*
- 2015 **Society for Psychophysiological Research (SPR)**, 55<sup>th</sup> Annual Meeting  
Seattle, WA, September 30<sup>th</sup> – October 4<sup>th</sup>, 2015  
Poster (1<sup>st</sup> author): *‘Visuocortical changes during discriminant aversive conditioning: effects of inter-individual differences in contingency awareness and autonomic engagement’*
- Vision Sciences Society (VSS)**, 15<sup>th</sup> Annual Meeting  
St. Petersburg, FL, May 15-20<sup>th</sup>, 2015  
Poster (1<sup>st</sup> author): *‘Visuocortical changes during discriminant aversive conditioning: effects of inter-individual differences in contingency awareness and autonomic engagement’*
- 2014 **Florida Genetics 2014 Symposium**  
University of Florida Cancer & Genetics Research Complex, Gainesville, FL, October 29-30<sup>th</sup>  
Poster (1<sup>st</sup> author): *‘The role of the COMT val158met polymorphism in mediating aversive learning in visual cortex and concurrent heart rate responding’*
- Society for Psychophysiological Research (SPR)**, 54<sup>th</sup> Annual Meeting  
Atlanta, GA, September 10-14<sup>th</sup>, 2014  
Poster (1<sup>st</sup> author): *‘The role of the COMT val158met polymorphism in mediating aversive learning in visual cortex and concurrent heart rate responding’*
- Vision Sciences Society (VSS)**, 14<sup>th</sup> Annual Meeting  
St. Petersburg, FL, May 16-21<sup>st</sup>, 2014  
Poster (1<sup>st</sup> author): *‘Fear memories in visual cortex: inter-individual differences related to reflex physiology and genetic variants’*  
Poster (2<sup>nd</sup> author): *‘Characterizing the in-vivo neurophysiology of visual aversive conditioning’*

*using concurrent EEG-fMRI recordings*

- 2013      **Society for Psychophysiological Research (SPR)**, 53<sup>rd</sup> Annual Meeting  
Florence, Italy, October 2-6<sup>th</sup>, 2013  
Poster (1<sup>st</sup> author): *'Fear memories in visual cortex: inter-individual differences related to reflex physiology and genetic variants'*
- Society for Neuroscience (SfN)**, 3<sup>rd</sup> Annual North Central Florida Chapter  
Gainesville, FL, March 14<sup>th</sup>, 2013  
Poster (1<sup>st</sup> author): *'Fear memories in visual cortex: inter-individual differences and reflex physiology'*
- 2012      **Society for Psychophysiological Research (SPR)**, 52<sup>nd</sup> Annual Meeting  
New Orleans, LA, September 19-23<sup>rd</sup>, 2012  
Poster (1<sup>st</sup> author): *'Oscillatory evoked dynamics in the face processing network: effects of presentation rate and face inversion'*  
Poster (2<sup>nd</sup> author): *'Visuocortical mechanisms of threat detection during fear learning: maximizing generalization or discrimination?'*
- 2011      **3<sup>rd</sup> International Workshop on Advances in Electroencephalography (ECoG)**, hosted by  
Office of Continuing Medical Education of Albany Medical College  
Washington, DC, November 10-11<sup>th</sup>, 2011

#### ACADEMIC TRAINING

- 2021 – present    **FERPA (EC)**
- 2011 – present    **HIPAA; IRB01, IRB02; RCR** (Responsible Conduct of Research; (UF, VU, USF, UT)
- 2019 – present    **GCP** (Good Clinical Practice); COI Certification (USF)
- 2017                AALAS training for **IACUC** with non-human primates; USDA Ethics and Simian Herpes-B  
Virus training at Vanderbilt University
- 2012 – 2017      **ECoG** (electrocorticography) experiment implementation with epilepsy patients with  
implanted electrode grids at UF Shands Neurological Center
- 2014                **Philips 3T Whole-Body Human MR Operator**  
McKnight Brain Institute at the University of Florida  
Trainer: Tammy Nicholson (AMRIS Facility Technologist)

#### ACADEMIC MEMBERSHIPS

- 2012 – present    Society for Psychophysiological Research (SPR)
- 2014 – present    Vision Sciences Society (VSS)
- 2020 – 2021      American Psychosocial Oncology Society (APOS)
- 2016 – 2020      Society for Neuroscience (SfN)
- 2016 – 2017      Cognitive Neuroscience Society (CNS)
- 2013 – 2014      Society for Neuroscience (SfN), North Central Florida Chapter
- 2012 – 2013      Association for Psychological Science (APS)

#### RELATED INFORMATION

- U.S. citizen, Austrian citizen
- Full name: Laura Forest Gruss Rosenfeld
- Philips 3T Human MR Operator
- Fluent in both English and German; conversational ability in French
- Expertise with EGI, BioPac and Brain Products EEG systems
- Programming expertise in MATLAB