



## PEER-REVIEWED PUBLICATIONS

1. **Sarapas, C.**, Katz, A. C., Nelson, B. D., Campbell, M. L., Bishop, J. R., Robison-Andrew, E. J., Altman, S. E., Gorka, S. M., & Shankman, S. A. (In press). Are individual differences in appetitive and defensive motivation related? A psychophysiological examination in two independent samples. *Cognition & Emotion*. doi:10.1080/02699931.2013.848787
2. Nelson, B. D., Bishop, J. R., **Sarapas, C.**, Kittles, R. A., & Shankman, S. A. (In press). Asians demonstrate reduced sensitivity to unpredictable threat: A preliminary startle investigation using genetic ancestry in a multi-ethnic sample. *Emotion*.
3. Campbell, M. L., Gorka, S. M., McGowan, S. K., Nelson, B. D., **Sarapas, C.**, Katz, A. C., Robison-Andrew, E. J., & Shankman, S. A. (2014). Does anxiety sensitivity correlate with startle habituation? An examination in two independent samples. *Cognition & Emotion*, 28, 46-58. doi:10.1080/02699931.2013.799062
4. **Sarapas, C.**, Shankman, S. A., Harrow, M., & Faull, R. N. (2013). Attention/processing speed prospectively predicts social impairment 18 years later in mood disorders. *Journal of Nervous and Mental Disease*, 201, 824-827.
5. Nelson, B. D., McGowan, S. K., **Sarapas, C.**, Robison-Andrew, E. J., Altman, S. E., Campbell, M. L., Gorka, S. M., Katz, A. C., & Shankman, S. A. (2013). Biomarkers of threat and reward sensitivity demonstrate unique associations with risk for psychopathology. *Journal of Abnormal Psychology*, 122, 662-671.
6. Shankman, S. A., Nelson, B. D., **Sarapas, C.**, Robison-Andrew, E. J., Campbell, M. L., Altman, S. E., McGowan, S. K., Katz, A. C., & Gorka, S. M. (2013). A psychophysiological investigation of threat and reward sensitivity in individuals with panic disorder and/or major depressive disorder. *Journal of Abnormal Psychology*, 122, 322-338.
7. Gorka, S. M., Nelson, B. D., **Sarapas, C.**, Campbell, M. L., Lewis, G. F., Bishop, J. R., Porges, S. W., & Shankman, S. A. (2013). Relation between respiratory sinus arrhythmia and startle response during predictable and unpredictable threat. *Journal of Psychophysiology*, 27, 95-104.
8. Gorka, S. M., McGowan, S. K., Campbell, M. L., Nelson, B. D., **Sarapas, C.**, Bishop, J. R., & Shankman, S. A. (2013). Association between respiratory sinus arrhythmia and reductions in startle responding in three independent samples. *Biological Psychology*, 93, 334-341.
9. **Sarapas, C.**, Shankman, S. A., Harrow, M., & Goldberg, J. F. (2012). Parsing trait and state effects of depression severity on neurocognition: Evidence from a 26-year longitudinal study. *Journal of Abnormal Psychology*, 121, 830-837.
10. Nelson, B. D., **Sarapas, C.**, Robison-Andrew, E. J., Altman, S. E., Campbell, M. L., & Shankman, S. A. (2012). Frontal brain asymmetry in depression with comorbid anxiety: A neuropsychological investigation. *Journal of Abnormal Psychology*, 121, 579-591.
11. **Sarapas, C.**, Cai, G., Bierer, L. M., Golier, J. A., Galea, S., Ising, M., Rein, T., Schmeidler, J., Müller-Myhsok, B., Uhr, M., Holsboer, F., Buxbaum, J. D., & Yehuda, R. (2011). Genetic markers for PTSD risk and resilience among survivors of the World Trade Center attacks. *Disease Markers*, 30, 101-110.

12. Shankman, S. A., **Sarapas, C.**, & Klein, D. N. (2011). The effect of pre vs. post-reward attainment on EEG asymmetry in melancholic depression. *International Journal of Psychophysiology*, 79, 287-295.
13. Yehuda, R., Cai, G., Golier, J. A., **Sarapas, C.**, Galea, S., Ising, M., Rein, T., Schmeidler, J., Müller-Myhsok, B., Holsboer, F., & Buxbaum, J. D. (2009). Gene expression patterns associated with posttraumatic stress disorder following exposure to the World Trade Center attacks. *Biological Psychiatry*, 66, 708-711.
14. Yehuda, R., Bierer, L. M., **Sarapas, C.**, Makotkine, I., Andrew, R., & Seckl, J. R. (2009). Cortisol metabolic predictors of response to psychotherapy for PTSD in survivors of the World Trade Center attacks on September 11, 2001. *Psychoneuroendocrinology*, 34, 1304-1313.

## BOOK CHAPTERS

1. Stevens, E. S., Jendrusina, A. A., **Sarapas, C.**, & Behar, E. (2014). Generalized anxiety disorder. In T. Ehring & P. Emmelkamp (Eds.), *Wiley handbook of anxiety disorders* (pp. 378-423). Hoboken: Wiley-Blackwell.
2. Shankman, S.A., Katz, A.C., DeLizza, A. A., **Sarapas, C.**, Gorka, S.M., & Campbell, M L. (2014). The different components of anhedonia and their associations with different psychopathologies. In M.S. Ritsner (Ed.), *Anhedonia: A comprehensive handbook*. Berlin: Springer.
3. Yehuda, R., & **Sarapas, C.** (2009). Pathogenesis of posttraumatic stress disorder and acute stress disorder. In D. J. Stein, E. Hollander, B. Rothbaum (Eds.), *Textbook of anxiety disorders* (2nd ed., pp. 567-588). Washington: American Psychiatric Publishing.
4. Yehuda, R., & **Sarapas, C.** (2009). Neuroendocrine aspects of post-traumatic stress disorder. In D. Pfaff, A. Arnold, A. Etgen, S. Fahrbach, & R. Rubin (Eds.), *Hormones, brain, and behavior* (2nd ed., Vol. 5, pp. 3303-3318). San Diego: Academic Press.

## MANUSCRIPTS UNDER REVIEW

1. **Sarapas, C.**, Katz, A. C., Bishop, J. R., Patel, S. R., & Shankman, S. A. Differential relationships of serotonin transporter gene with fear versus anxiety reactivity. *Psychophysiology*.
2. Katz, A. C., **Sarapas, C.**, Bishop, J. R., Patel, S. R., & Shankman, S. A. The mediating effect of prefrontal asymmetry on the relationship between COMT SNPs and trait anticipatory and consummatory positive affect. *Cognition & Emotion*.
3. Gorka, S. M., Lieberman, L. N., Nelson, B. D., **Sarapas, C.**, & Shankman, S. A. Aversive responding to safety signals in panic disorder: The moderating role of intolerance of uncertainty. *Journal of Anxiety Disorders*.
4. Gorka, S. M., Liu, H., **Sarapas, C.**, & Shankman, S. A. Time course of threat responding in panic disorder and depression. *Depression and Anxiety*.
5. Hochberger, W. C., Axelrod, J. L. **Sarapas, C.**, Shankman, S. A., & Hill, S. K. Assessing serial order processing using a novel P3 oddball paradigm: A proof of concept investigation. *Psychophysiology*.

## MANUSCRIPTS IN PREPARATION

1. **Sarapas, C.**, Shankman, S. A., & Langenecker, S. A. Relationships among components of attention and defensive responding.

## INVITED TALKS

1. **Sarapas, C.**, Gorka, S. M., & Jones, K. (2013, October). *Preparing a successful NRSA application*. Invited talk delivered at University of Illinois at Chicago Department of Psychology.
2. **Sarapas, C.** (2013, April). *Progression of mild cognitive impairment*. Invited talk delivered at University of Illinois Hospital & Health Sciences System Department of Psychiatry.
3. **Sarapas, C.** (2012, February). *Mechanisms underlying mood and anxiety disorders in the context of genetic studies*. Invited talk delivered at University of Illinois at Chicago College of Pharmacy.
4. **Sarapas, C.** (2011, September). *Parsing trait and state effects of depression severity on neurocognition: Evidence from a 26-year longitudinal study*. Invited talk delivered at University of Illinois at Chicago Department of Psychology.

## CONFERENCE PRESENTATIONS

1. Shankman, S. A., **Sarapas, C.**, & Nelson, B. D. (2014, March). Emotional and executive function abnormalities in depression and anxiety disorders: Is there a mediating effect? In W. Heller (Chair), *Executive dysfunction in anxiety and depression: Implications for intervention*. Symposium conducted at 34th annual meeting of the Anxiety and Depression Association of America, Chicago, IL.
2. Lieberman, L., Gorka, S. M., Nelson, B. D., **Sarapas, C.**, & Shankman, S. A. (2014, March). *Intolerance of uncertainty moderates the relation between panic disorder and aversive responding during safety conditions*. Poster presented at 34th annual meeting of the Anxiety and Depression Association of America, Chicago, IL.
3. Shankman, S. A., Nelson, B. D., **Sarapas, C.**, Robison-Andrew, E. J., Campbell, M. L., Altman, S. E., McGowan, S. K., Katz, A. C., & Gorka, S. M. (November, 2013). Examining the specificity of reduced reward anticipation and heightened threat anticipation in depression and anxiety using psychophysiological indices of responding. In A. M. Ruscio (Chair), *Comorbidity of anxiety and depression: Moving beyond description to explain why and how comorbidity occurs*. Symposium conducted at 47th annual meeting of the Association for Behavioral and Cognitive Therapies, Nashville, TN.
4. Nelson, B. D., Bishop, J. R., **Sarapas, C.**, Kittles, R. A., & Shankman, S. A. (2013, October). *Ethnic/racial differences in sensitivity to uncertain threat*. Paper presented at 53rd annual meeting of the Society for Psychophysiological Research, Florence, Italy.
5. **Sarapas, C.**, Nelson, B. D., Gorka, S. M., Campbell, M. L., Katz, A. C., DeLizza, A. A., & Shankman, S. A. (2013, September). *Association of executive function with family history of depression in two independent samples*. Poster presented at 27th annual meeting of the Society for Research in Psychopathology, Oakland, CA.

6. Shankman, S. A., Nelson, B. D., **Sarapas, C.**, Campbell, M. L., Gorka, S. M., Katz, A. C., & DeLizza, A. A. (2013, September). *The discriminant validity of reward and threat anticipation in internalizing psychopathologies*. Paper presented at 27th annual meeting of the Society for Research in Psychopathology, Oakland, CA.
7. **Sarapas, C.**,† Blok, D.,\* Moricelli, A. S.,\* Rosales, G.,\* & Shankman, S. A. (2013, May). *Attentional control as a mechanism of unpredictable threat sensitivity*. Poster presented at 25th annual meeting of the Association for Psychological Science, Washington, DC.  
†SSCP Student Poster Award  
\*Student mentee
8. **Sarapas, C.**, Blok, D.,\* Moricelli, A. S.,\* Rosales, G.,\* & Shankman, S. A. (2012, October). *From cold to hot cognition: Linking basic attentional abilities and biased attention to threat*. Poster presented at 26th annual meeting of the Society for Research in Psychopathology, Ann Arbor, MI.  
\*Student mentee
9. Campbell, M. L., **Sarapas, C.**, Nelson, B. D., Patel, S. R., Bishop, J. R., & Shankman, S. A. (2012, October). *The relationship between a polymorphism in MAOA and sustained defensive responding*. Poster presented at 26th annual meeting of the Society for Research in Psychopathology, Ann Arbor, MI.
10. Shankman, S. A., Nelson, B. D., **Sarapas, C.**, Robison-Andrew, E. J., Campbell, M. L., Altman, S. E., McGowan, S. K., Katz, A. C., & Gorka, S. M. (2012, October). *A psychophysiological investigation of reward and threat sensitivity in individuals with depression and/or panic disorder*. Paper presented at 26th annual meeting of the Society for Research in Psychopathology, Ann Arbor, MI.
11. Nelson, B. D., Robison-Andrew, E. J., Altman, S. E., Campbell, M. L., **Sarapas, C.**, Katz, A. C., Gorka, S. M., McGowan, S. K., & Shankman, S. A. (2012, October). *Comparing reward sensitivity vs. DSM-defined major depressive disorder on how they predict family history of psychopathology*. Poster presented at 26th annual meeting of the Society for Research in Psychopathology, Ann Arbor, MI.
12. **Sarapas, C.**, Bishop, J. R., Patel, S. R., Nelson, B. D., Campbell, M. L., & Shankman, S. A. (2012, September). *Variation in serotonin transporter gene predicts startle response to cued but not contextual threat*. Poster presented at 52nd annual meeting of the Society for Psychophysiological Research, New Orleans, LA.
13. Katz, A. C., **Sarapas, C.**, Nelson, B. D., Campbell, M. L., Gorka, S. M., Patel, S., Bishop, J. R. & Shankman, S. A. (2012, September). *The mediating effect of prefrontal asymmetry on the relationship between COMT SNPs and trait consummatory positive affect*. Poster presented at 52nd annual meeting of the Society for Psychophysiological Research, New Orleans, LA.
14. Gorka, S. M., Nelson, B. D., **Sarapas, C.**, Campbell, M. L., Katz, A. C., McGowan, S. K. & Shankman, S. A. (2012, September). *Sensitivity to unpredictable threat in those with panic disorder and/or alcohol dependence*. Poster presented at 52nd annual meeting of the Society for Psychophysiological Research, New Orleans, LA.
15. Nelson, B. D., Robison-Andrew, E. J., Altman, S. E., **Sarapas, C.**, Campbell, M. L., Katz, A. C., Gorka, S. M., McGowan, S. K., & Shankman, S. A. (2012, September). *Does heightened sensitivity to predictable vs. unpredictable threat index risk for panic disorder? A startle electromyography investigation*. Poster presented at 52nd annual meeting of the Society for Psychophysiological Research, New Orleans, LA.

16. Lannon, E. W.,\* **Sarapas, C.**, Nelson, B. D., Campbell, M. L., & Shankman, S. A. (2012, July). *Theta oscillation during reward processing in healthy individuals*. Paper presented at Illinois Summer Research Symposium, Champaign, IL.  
\*Student mentee
17. Lowery, A. D.,\* **Sarapas, C.**, & Shankman, S. A. (2012, July). *The effects of alcohol and anxiety on attentional bias to threat*. Paper presented at Illinois Summer Research Symposium, Champaign, IL.  
\*Student mentee
18. Lehne, R. J.,\* **Sarapas, C.**, Bishop, J. R., Nelson, B. D., Campbell, M. L., & Shankman, S. A. (2012, May). *Genetic ancestry and mental health vulnerabilities*. Poster presented at 84th annual meeting of the Midwestern Psychological Association, Chicago, IL.  
\*Student mentee
19. Nelson, B. D., **Sarapas, C.**, Campbell, M. L., Katz, A. C., Gorka, S. M., Robison-Andrew, E. J., Altman, S. E., Bishop, J. B., Kittles, R. A., & Shankman, S. A. (2012, May). *Racial differences in emotional reactivity: Startle investigation using genetic indices of ancestry*. Poster presented at 24th annual meeting of the Association for Psychological Science, Chicago, IL.
20. **Sarapas, C.**,† Bishop, J. R., Nelson, B. D., Campbell, M. L., Robison-Andrew, E. J., Altman, S. E., Katz, A. C., Gorka, S. M., McGowan, S. K., & Shankman, S. A. (2011, September). *Relationships among serotonergic genes, anxious arousal, and frontal brain asymmetry during reward anticipation*. Poster presented at 25th annual meeting of the Society for Research in Psychopathology, Boston, MA.  
†**Honorable mention, Smadar Levin Award**
21. Nelson, B. D., **Sarapas, C.**, Campbell, M. L., Robison-Andrew, E. J., Altman, S. E., Katz, A. C., Gorka, S. A., McGowan, S. K., & Shankman, S. A. (2011, September). *Comparing sensitivity to unpredictable threat versus DSM defined panic disorder on how they predict family history of panic disorder*. Poster presented at 25th annual meeting of the Society for Research in Psychopathology, Boston, MA.
22. Gorka, S. M., Nelson, B. D., **Sarapas, C.**, Campbell, M. L., Robison-Andrew, E. J., Altman, S. E., & Shankman, S. A. (2011, September). *Resting heartrate variability as a predictor of startle responses to predictable and unpredictable threat*. Poster presented at 25th annual meeting of the Society for Research in Psychopathology, Boston, MA.
23. Campbell, M. L., Nelson, B. D., McGowan, S. K., Robison-Andrew, E. J., **Sarapas, C.**, Altman, S. E., Gorka, S., Katz, A. C., & Shankman, S. A. (2011, September). *Startle habituation in individuals with depression and/or panic disorder*. Poster presented at 25th annual meeting of the Society for Research in Psychopathology, Boston, MA.
24. Katz, A. C., Nelson, B. D., Robison-Andrew, E.J., Altman, S. E., Campbell, M. L., **Sarapas, C.**, Gorka, S. & Shankman, S. A. (2011, September). *The moderating effect of trait positive emotionality on EEG asymmetry recorded during a reward processing task*. Poster presented at 25th annual meeting of the Society for Research in Psychopathology, Boston, MA.
25. Gao, Y.,\* **Sarapas, C.**, Nelson, B. D., Campbell, M. L., Altman, S. E., Robison-Andrew, J., & Shankman, S. A. (2011, May). *Aspects of personality as predictors of pain threshold*. Poster presented at 83rd annual meeting of the Midwestern Psychological Association, Chicago, IL.  
\*Student mentee



26. Nelson, B. D., **Sarapas, C.**, & Shankman, S. A. (2011, February). *The effects of a comorbid anxiety disorder on measures of executive functioning in depression*. Poster presented at 39th annual meeting of the International Neuropsychological Society, Boston, MA.
27. **Sarapas, C.**, Shankman, S. A., Harrow, M., Faull, R., & Grossman, L. S. (2010, October). *Neurocognitive function in unipolar and bipolar depression: Effects of polarity and depressive symptoms*. Poster presented at 24th annual meeting of Society for Research in Psychopathology, Seattle, WA.
28. Nelson, B. D., Shankman, S. A., **Sarapas, C.**, Campbell, M. L., Altman, S. E., & Robison-Andrews, E. J. (2010, October). *Are distinctive symptoms of anxiety and depression related to emotional responding while anticipating predictable vs. unpredictable threat?* Poster presented at 24th annual meeting of the Society for Research in Psychopathology, Seattle, WA.
29. Campbell, M. L., Shankman, S. A., Nelson, B. D., Robison-Andrews, E. J., Altman, S. E., **Sarapas, C.**, & McGowan, S. K. (2010, October). *Personality correlates of startle habituation: An examination in three separate samples*. Poster presented at 24th annual meeting of the Society for Research in Psychopathology, Seattle, WA.
30. Ryszko-Grams, N., Nelson, B. D., **Sarapas, C.**, Nelson, M. L., Andrew, E. J., Altman, S. E., & Shankman, S. A. (2010, April). *Are depressive symptoms associated with sensitivity to aversiveness?* Poster presented at UIC Student Research Forum, Chicago, IL.
31. Yehuda, R., Bierer, L. M., Golier, J. A., Makotkine, I., Kessova, I., **Sarapas, C.**, Tramontin, M., & Altman, M. (2009, December). *Biological changes before, during, and after prolonged exposure therapy in OEF/OIF veterans with PTSD*. Poster presented at 48th annual meeting of the American College of Neuropsychopharmacology, Hollywood, FL.

## CLINICAL EXPERIENCE

### 2013 - Present

#### Neuropsychology Technician

#### Chicago Neuropsychology Group

Perform neuropsychological assessment for adult outpatients with referral problems including dementia, traumatic brain injury, and medical and psychiatric diagnoses including autoimmune disorders, bipolar disorder, depression, and alcohol dependence. Under Dr. Heilbronner's supervision, interview patients, select and administer tests, interpret results, and write neuropsychological evaluations.

*Supervisor:* Robert Heilbronner, Ph.D., ABPP-CN

### 2012 - 2013

#### Adult Neuropsychology Practicum

#### University of Illinois Hospital and Health Sciences System - Neuropsychology Service

Performed neuropsychological assessment for a diverse population of adult inpatients and outpatients with referral problems including dementia, cerebrovascular disorders, traumatic brain injury, and medical diagnoses including cancer, meningitis, and HIV. Under Dr. Pliskin's supervision, selected and administered tests, interpreted results, and wrote neuropsychological evaluations.

*Supervisor:* Neil Pliskin, Ph.D., ABPP-CN

**2010 - 2014**

**Practicum in Psychotherapy**

**University of Illinois at Chicago - Office of Applied Psychological Services**

Provide individual and couples psychotherapy to a diverse clientele with a variety of psychological problems, including depression, panic disorder, social anxiety, eating disorder, and interpersonal difficulties, using empirically-supported interventions.

*Supervisors:* Gloria Balague, Ph.D.; Evelyn Behar, Ph.D.; Nancy Dassoﬀ, Ph.D.; Amanda Lorenz, Ph.D.; Elise Massie, Ph.D.

**2010 - 2011**

**Practicum in Psychological Assessment**

**University of Illinois at Chicago - Office of Applied Psychological Services**

Performed neuropsychological and psychodiagnostic assessment to address referral questions including reading disorder, mathematics disorder, ADHD, memory complaints, and post-stroke cognitive impairment. Interviewed patients, selected and administered tests, interpreted and wrote up results, and communicated findings to colleagues, patients, and families.

*Supervisors:* Neil Pliskin, Ph.D., ABPP-CN; Audrey Ruderman, Ph.D.

## **RESEARCH EXPERIENCE**

**2009 - Present**

**Chicago Laboratory of Emotion and Physiology**

**University of Illinois at Chicago**

Stewart A. Shankman, Ph.D., Director.

Conduct research on reward and threat sensitivity in healthy and clinical samples. Research includes induction of positive and negative emotion, psychophysiological measurement (EEG, acoustic startle eyeblink, heart rate), neuropsychological testing, and analysis of genetic variants.

**2009 - 2010**

**Pharmacogenomics Laboratory**

**University of Illinois at Chicago**

Jeffrey R. Bishop, Pharm.D., Director.

Extracted DNA from saliva samples and performed DNA quantification, polymerase chain reaction, PCR purification, and pyrosequencing for psychiatric genetic studies.

**2007 - 2009**

**Traumatic Stress Studies Division**

**James J. Peters VA Medical Center, Bronx, NY & Mount Sinai School of Medicine, New York, NY**

Rachel Yehuda, Ph.D., Director.

Ran participants and managed data for neuroendocrine study of posttraumatic stress disorder symptoms before and after psychotherapy. Responsible for regulatory correspondence with two local IRBs, local IACUC and funding agencies. Contributed to preparation of grant applications.

## **TEACHING EXPERIENCE**

**2009 - Present**

**University of Illinois at Chicago**

TEACHING ASSISTANT:

- Behavioral Neuroscience (Spring 2010, Fall 2010, Spring 2012)
- Abnormal Psychology (Fall 2009, Fall 2011, Fall 2012)
- Theories of Personality (Spring 2011)
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UNDERGRADUATE STUDENTS MENTORED:

- Atefeh Moricelli (2012 - 2013): Research Assistant; Senior Honors Project
- Dorota Blok (2012): Research Assistant
- Genesis Rosales (2012): Research Assistant
- Edward Lannon (2012): Summer Research Opportunity Program
- Ashley Lowery (2012): Summer Research Opportunity Program
- Ramier Lehne (2011 - 2012): Senior Honors Project
- Yangfeifei Gao (2010 - 2011): Senior Honors Project