

Curriculum Vitae

Mercedes Fernández

Nova Southeastern University
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Education	Ph. D.	The University of Arizona _____ Tucson, AZ May 1998, Department of Psychology. Advisor Gary E. Schwartz. Dissertation titled <i>EEG Measures of Subjects with Idiopathic Chemical Sensitivity: A Test of the Sensitization Model</i> .
	M. A.	Florida Atlantic University _____ Boca Raton, FL April 1995, Department of Psychology. Advisor Allan J. Nash. Thesis titled <i>The Effects of Standard and Deviant Tones on Event-Related Brain Potentials and Reaction-Times to Visual Stimuli</i> .
	B. A.	Florida International University _____ Miami, FL April 1990, Department of Psychology. Advisor Lorraine E. Bahrick. Honors thesis titled <i>Arbitrary Pairings of Objects and Odors in Four-Month-Old Infants</i> .
	B. A.	Florida International University _____ Miami, FL April 1987, Major in English.
Professional License		Licensed Clinical Psychologist, State of Florida No. PY6180.
Languages		Fluent in English and Spanish.
Faculty Positions	10/2017– present	Nova Southeastern University _____ Davie, FL Professor of Psychology.
	8/2013– 7/2016	Nova Southeastern University _____ Davie, FL Experimental Psychology Graduate Program Chair.
	8/2009– 10/2017	Nova Southeastern University _____ Davie, FL Associate Professor of Psychology.
	2/2009– 4/2009	Carlos Albizu University _____ Miami, FL Associate Professor of Psychology, Neuropsychology Program Coordinator.
	2003–2009	Carlos Albizu University _____ Miami, FL Assistant Professor of Psychology, Neuropsychology Program Coordinator.

Clinical Positions	2000–present	Self-Employed _____ Miami, FL Neuropsychologist.
	2003–2009	Carlos Albizu University _____ Miami, FL Clinical Supervisor.
	Apr.–Dec. 2001	Neurological Consultants, Sunrise Medical Group – Hollywood, FL Neuropsychologist.
	2000–2001	Centers for Psychological Growth _____ Miami, FL Neuropsychologist.
Postdoctoral Fellowship	1998–1999	Veterans Affairs Medical Center _____ Tucson, AZ Postdoctoral Fellow.
Grants		<ul style="list-style-type: none"> • HSI Conference: Hispanic-focused STEM Ideas for Inspiration and Innovation. National Science Foundation (1748199) (\$98,792). (Awarded 8/2017, Co-PI). • Does Learning a Second Language Enhance Inhibitory Processes and Executive Function? National Science Foundation (1632377) (\$167,298). (Awarded 9/2016, PI). • Minority Science and Engineering Improvement Program. Science Peer and Research Collaborative (SPARC). Department of Education (P120A1400120) (\$279,596). (Awarded 10/2014, Co-I). • Neurophysiological Changes during Narrative Terapy Conversation. President’s Faculty Research & Development Grant (\$10,000). (Awarded 5/2013, Co-I). • Auditory and Visual Inhibitory Control Differences in Bilinguals and Monolinguals. Dean’s Mini Grant (\$1,500) (Awarded 1/2013, PI). • Neural and Cognitive Inhibition in Bilinuals. Chancellor’s Faculty Research & Development Grant (\$9,991.32). (Awarded 5/2010, PI). • Bilingualism and Neural Inhibition. Dean’s Mini Grant (\$1,491.50) (Awarded 4/2010, PI). • Received grant of electrophysiology equipment from Lexicor Corp (2006). • The University of Arizona Minority Graduate Student Research Award (1996). • Graduate Fellowship from the National Institutes on Deafness and Other Communication Disorders (1995).
Honors		<ul style="list-style-type: none"> • Faculty of the Year Award (2008). • Member Psi Chi, The Psychology National Honor Society (1988–90).
Professional Memberships		<ul style="list-style-type: none"> • International Neuropsychological Society • National Academy of Neuropsychology • Society for Psychophysiological Research

Invited Talks

“Bilingualism and the Brain.” Miami Dade College, Miami, FL, November 2013.

Invited Papers

Friedman, M., Fernandez, M., Backer, L., Dickey, R., DeGrasse, S....Fleming, L. (2017). Updated review of Ciguatera Fish Poisoning. *Marine Drugs*, 15. doi: 10.3390/md15030072

Manuscripts under Review

Hill, L., Starrat, V., Fernandez, M. & Tartar, J.L. Heads-up!: Negative affective priming directs attention toward extrafoveal negative images. *Cognitive, Affective, & Behavioral Neuroscience*.

Publications

Chayo, I., Fernandez, M., Sandoor, S. & Tartar, J.L.(2017) Neurophysiological processing of an emotional task is sensitive to time of day. *Journal of Circadian Rhythms*, 15. doi:10.5334/jcr.148

Young, K., Hibel, J., Fernandez, M., & Tartar, J. (2017). Single session therapy and neuroscience: Scaffolding and social engagement. In Beaudoin, M. and Duvall, J. (Ed). *Collaborative Therapy and Neurobiology*. New York: Routledge.

Alomari, R.A., Fernandez, M., Banks, J.B., Acosta, J. & Tartar, J.L.(2015). Acute stress dysregulates the LPP ERP response to emotional pictures and impairs sustained attention: Time-sensitive effects. *Brain Sciences*, 5(2), 201-219. doi: 10.3390/brainsci50202001

Misdraji-Hammond, E., Lim, N.K., Fernandez, M. & Burke, M.E. (2015). Object familiarity and acculturation do not explain performance differences between Spanish-English bilinguals and English monolinguals on the Boston Naming Test. *Archives of Clinical Neuropsychology*, 30 doi: 10.1093/arclin/acu065

Fernandez, M., Acosta, J., Douglass, K., Doshi, N. & Tartar, J.L. (2014). Speaking two languages enhances an auditory but not a visual neural marker of cognitive inhibition. *AIMS Neuroscience*, 1(2), 145-157. doi: 10.3934/Neuroscience.2014.2.145

Fernandez, M., Tartar, J.L., Padron, D. & Acosta, J.(2013). Neurophysiological marker of inhibition distinguishes language groups on a non-linguistic executive function test. *Brain & Cognition*. 10.1016/j.bandc.2013.09.010

Vega, C. & Fernandez, M.(2010). Errors on the WCST correlate with language proficiency in Spanish/English bilingual children. *Archives of Clinical Neuropsychology*,26,(2), 158-164. doi:10.1093/arclin/acq097

Friedman, M.A., Fernandez, M., Wefel, J.S., Myszka, K.A., Champlin, R.E., & Meyers, C.A. (2009). Course of cognitive decline in hematopoietic stem cell transplantation: A within-subjects design. *Archives of Clinical Neuropsychology*,24(7),689-698. doi:10.1093/arclin/acp060

Friedman, M. A. & Fernandez, M. (2008). Hematological malignancies. In C.A. Meyers: *Cognition & Cancer*. New York: Cambridge University Press.

Friedman, M. A., Fleming, L., Fernandez M., Bienfang, P., Schrank, K., Dickey, R., Bottein, M., Backer, L., Ayyar, R., Weisman, R., Watkins, S., Granade, R. & Reich A. (2008). Ciguatera Fish Poisoning: Treatment, prevention and management. *Marine Drugs*, 6, 456-479.

Friedman, M. A., Arena, P., Levin, B., Fleming, L., Fernandez, M., Weisman, R., Bernstein, J., Schrank, K., Blythe, D., Backer, L. & Reich, A. (2007). Neuropsychological study of Ciguatera Fish Poisoning: A longitudinal case-control study. *Archives of Clinical Neuropsychology*, 22, 545-553.

Bell, I. R., Brooks, A. J., Baldwin, C. M., Fernandez, M., Figueredo, A. J. & Witten, M. L. (2005). JP-8 jet fuel exposure and divided attention test performance in 1991 gulf war veterans. *Aviation, Space, and Environmental Medicine*, 76, 1136–1144.

Fernandez, M., Hernandez-Reif, M., Field, T., Diego, M., Sanders, C., & Roca, A. (2004). EEG during lavender and rosemary exposure in infants of depressed and non-depressed mothers. *Infant Behavior and Development*, 27, 91–100.

Fernandez, M., Blass, E. M., Hernandez-Reif, M., Field, T., Diego, M., & Sanders, C. (2003). Sucrose attenuates a negative electroencephalographic response to an aversive stimulus for newborns. *Developmental and Behavioral Pediatrics*, 24, 1–6.

- Sanders, C., Diego, M., Fernandez, M., Field, T., Hernandez-Reif, M., & Roca, A. (2002). EEG asymmetry responses to lavender and rosemary odorants in adults and infants. *International Journal of Neuroscience*, *112*, 1305–1320.
- Baldwin, C. M., Bell, I. R., Fernandez, M. & Schwartz, G. E. R. (2000). Multiple Chemical Sensitivity. In: *Women and Health*, ed. M. B. Goldman & M. C. Hatch. New York: Academic Press.
- Fernandez, M., Schwartz, G. E. R. & Bell, I. R. (1999). Subjective ratings of odorants by women with chemical sensitivity. *Toxicology and Industrial Health*, *15*, 577–581.
- Fernandez, M., Bell, I. R. & Schwartz, G. E. R. (1999). EEG sensitization during chemical exposure in women with and without chemical sensitivity of unknown etiology. *Toxicology and Industrial Health*, *15*, 305–312.
- Bell, I. R., Baldwin, C. M., Fernandez, M. & Schwartz, G. E. R. (1999). Neural sensitization model for multiple chemical sensitivity: Overview of theory and empirical evidence. *Toxicology and Industrial Health*, *15*, 295–304.
- Nash, A. J. & Fernandez M. (1996). P300 and allocation of attention in dual modality tasks. *International Journal of Psychophysiology*, *23*, 171–180.
- Schwartz, G. E., Bell, I. R., Dikman, Z. V., Fernandez, M., Kline, J. P., Peterson, J. M. & Wright, K. P. (1994). EEG responses to low-level chemicals in different age groups and cacosmics. *Toxicology and Industrial Health*, *10*, 633–643.
- Fernandez, M. & Bahrick, L. (1994). Sensitivity to arbitrary object-odor pairings by four-month-old infants. *Infant Behavior and Development*, *17*, 471–474.

Presentations and Published Abstracts

- Auditory but not visual ERP distinguish bilinguals from monolinguals on a non-linguistic Go/NoGo task.* Society for Psychophysiology Research, September 2014, Atlanta, GA.
- Bilingualism is linked to a ERP measures of inhibition.* Society for Neuroscience, November 2011, Washington, DC.
- Assessing cognitions in bilinguals and monolinguals using visual spatial tasks.* American Psychological Association, August 2009, Toronto, CA.
- The effects of bilingualism on working memory in an Attention-Deficit/Hyperactivity Disorder population.* International Neuropsychological Society, February 2009, Atlanta, GA.
- Cognitive flexibility in Spanish/English bilingual children.* International Neuropsychological Society, February 2008, Kona Island, HI.
- Late Language Bilinguals Outperform Monolinguals on the Stroop Test.* National Academy of Neuropsychology, November 2007, Scottsdale AZ.
- Uses of EEG in the diagnosis of ADHD & dementia.* Florida Psychological Association, July 2006, Sarasota, FL.
- Impact of stereotype threat on the WASI in Hispanic women.* American Psychological Association, August 2005, Washington DC.
- Impact of stereotype threat on cognitive test performance in older adults.* American Psychological Association, August 2005, Washington DC.
- Neural sensitization model for polysymptomatic somatoform-spectrum disorders.* American Psychiatric Association, October 1999, New Orleans, LA.
- Sensitization of the human EEG during chemical exposure.* Association for Chemoreception Sciences, April 1999, Sarasota, FL.

Psychophysiological differences between fibromyalgia patients with and without environmental chemical intolerance. Society for Behavioral Medicine, March 1999, San Diego, CA.

Cacosmia and the neural sensitization model. American Psychiatric Association, October 1998, Los Angeles, CA.

Sensitization during chemical exposure in subjects with chemical sensitivities. American Chemical Society, August 1998, Boston, MA.

Chemical sensitivity: Emerging data. U.S. Environmental Protection Agency and N.I.D.C.D., April 1998, Durham, NC.

Blindsmell: An olfactory analogue of blindsight. Association for Chemoreception Sciences, April 1995, Sarasota, FL.

EEG Correlates of Unconscious Registration of Emotional Words in Repressive and Defensive Coping Styles. Society for Psychophysiological Research, October 1994, Atlanta, GA.

Application of chaos analysis to EEG registration of odors. Society for Psychophysiological Research, October 1994, Atlanta, GA.

P300 and reciprocal allocation of information-processing resources in dual-modality concurrent task. Society for Psychophysiological Research, October 1994, Atlanta, GA.

EEG registrations of suprathreshold odor concentrations of isoamyl acetate and androstenone: Application of chaos analysis. Association for Chemoreception Sciences, April 1994, Sarasota, FL.

EEG registration of unconscious odor concentrations of isoamyl acetate: A double-blind experiment. Association for Chemoreception Sciences, April 1994, Sarasota, FL.

EEG registration of androstenone odor response in androstenone anosmic subjects. Association for Chemoreception Sciences, April 1994, Sarasota, FL.

Arbitrary pairings of objects and odors in four-month old infants. International Conference on Infant Studies, May 1992, Miami Beach, FL.

Depositions/Expert Testimony

2002 November 26, *Robert Simpson v. Morrison Restaurants, Inc.*, Case No. 01-6989 CACE (02)