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**Education****University of Wisconsin**

School of Medicine and Public Health, Department of Population Health Sciences

**MD/PhD candidate****Madison, WI**

2012-Present

**Pomona College****Bachelor of Arts in Neuroscience**, Minor in Music, GPA 3.75/4.00**Claremont, CA**

2007-2011

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**Significant Research Experiences****University of Wisconsin Population Health Sciences**

MD/PhD student research rotations through the Medical Scientist Training Program

▪ Mentors: Ana Martinez-Donate, PhD and Javier Nieto, MD, PhD

▪ Martinez-Donate: conducted a literature search on restaurant interventions aimed at increasing healthy meal consumption, with the goal of publishing a review paper on this topic, article submitted to **Preventing Chronic Disease CDC e-journal October 2014**.▪ Nieto: used data from the Survey of the Health of Wisconsin and the SAS program to conduct analyses and investigate regional differences in food insecurity in Wisconsin, article published in **Wisconsin Medical Journal August 2014**.**Madison, WI**

Summer 2013

**University of Wisconsin Population Health Sciences**

MD/PhD student research rotation through the Medical Scientist Training Program

▪ Mentor: Elizabeth Jacobs, MD

▪ Completed a literature review on racial differences in health care trust.

▪ Contributed to multiple parts of a research paper reporting results from a study on racial differences in health care trust in older adults.

▪ Research paper accepted in **Journal of the American Geriatrics Society September 2014**.**Madison, WI**

Summer 2012

**Pomona College Neuroscience Program**

Senior thesis in Neuroscience

▪ "The Relationship Between Stress-Related Shifts in Prefrontal Asymmetry and Depression"

▪ Mentors: Nicole Y. Weekes, PhD and Richard S. Lewis, PhD

▪ Investigated the effects of depressive symptoms on brain activity of the prefrontal cortex using electroencephalogram reactivity as a measure of participants' reaction to a laboratory stressor.

▪ Findings suggested that individuals with greater levels of depressive symptoms demonstrated a greater shift towards an increase in relative right prefrontal activity in the ventral prefrontal cortex.

**Claremont, CA**

06/2010-05/2011

**Centocor R&D, Inc.**

Research intern under Temple University's Physician Scientist Training Program

▪ Mentor: Thomas Malia, PhD

▪ Long-term goal was to determine the epitope of monoclonal antibodies on a target protein of therapeutic interest.

▪ Worked to generate and express variants of the target protein in order to later test their binding to potential drug candidates.

▪ Results indicated that some of the variants had a propensity to aggregate, while others remained soluble.

**Radnor, PA**

Summer 2008

**Center for Cancer Research, National Institutes of Health**

Research intern under Temple University's Physician Scientist Training Program

▪ Mentor: Stephen M. Hewitt, PhD

▪ Researched the recovery and quality of biomolecules in formalin-fixed, paraffin-embedded (FFPE) tissue.

▪ Results indicated that the quality of nucleic acids was highest when the melting temperature of the paraffin used was highest and when longer processing times were used.

▪ Results contributed to publications in **Journal of Histochemistry and Cytochemistry in 2008 and 2011**.**Bethesda, MD**

Summer 2006

**Temple University School of Medicine**

Research intern under Temple University's Physician Scientist Training Program

▪ Mentors: Mary F. Barbe, PhD and Michael R. Ruggieri, PhD

▪ Researched the reinnervation of motor nerves to the bladder following experimental spinal nerve transection in a canine model.

▪ Gathered data on flourgold retrogradely- labeled neuronal cell bodies using an epi-flourescent microscope.

▪ Results suggested that homotypic reanastomosis and coccygeal nerve transfer were nearly equally successful.

**Philadelphia, PA**

Summer 2005

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**Publications****[Accepted] Guerrero, N., Mendes de Leon, C.F., Evans, D. A., Jacobs, E. A. (2014).** Determinants of trust in health care in an older population. *Journal of the American Geriatrics Society*.

**Guerrero, N.,** Walsh, M.C., Malecki, K.C., Nieto, J. (2014). Urban-rural and regional variability in the prevalence of food insecurity: the Survey of the Health of Wisconsin. *Wisconsin Medical Journal*. 113 (4), 133-138.

Lewis, R.S., Weekes, N.Y. & **Guerrero, N.** (2012) Examination stress and components of working memory. *The Encyclopedia of the Sciences of Learning*. Springer Publishing. 1195-1197.

Xie, R., Chung, J., Ylaya, K., Williams, R. L., **Guerrero, N.**, Nakatsuka, N., Badie, C., & Hewitt, S. M. (2011). Factors influencing the degradation of archival formalin-fixed paraffin-embedded tissue sections. *Journal of Histochemistry and Cytochemistry*. 59 (4), 356-365.

Chung, J., Braunschweig, T., Williams, R., **Guerrero, N.**, Hoffmann, K. M., Kwon, M., Song, Y. K., Libutti, S.K., & Hewitt, S.M. (2008). Factors in tissue handling and processing that impact RNA obtained from formalin-fixed, paraffin-embedded tissue. *Journal of Histochemistry and Cytochemistry*. 56 (11), 1033-1042.

### **Presentations**

**Guerrero, N.,** Weekes, N., Lewis, R. (2011). The relationship between stress-related shifts in prefrontal asymmetry and depression. Senior Experimental Thesis in Neuroscience Oral Presentation Day, Pomona College, Claremont, CA.

**Guerrero, N.,** Kopelman, J., Traore, F., Salim, R., Weekes, N. & Lewis, R. (2010). The relationship between stress-related shifts in prefrontal asymmetry and depression. Society for Neuroscience Undergraduate Poster Session, San Diego, CA.

**Guerrero, N.,** Chung, J., Hewitt, S. M. (2006). The recovery and quality of biomolecules in formalin-fixed, paraffin-embedded tissue. National Institutes of Health Summer Research Program Student Poster Day, Bethesda, MD.

**Guerrero, N.,** Ruggieri, M., Barbe, M. F. (2005). The reinnervation of motor nerves to the bladder following experimental spinal nerve transection in a canine model. Annual Minority Trainee Research Forum, Oral Presentation and Poster Session, Aventura, FL.

### **Activities**

▪ Active member, volunteer, and mentor, Latino Medical Student Association	Present
▪ Co-chair, Medical Scientist Training Program Outreach Committee	Present
▪ Volunteer, University of Wisconsin Students Teaching and Reaching Students	Present
▪ Member and secretary, University of Wisconsin Baha'i Campus Association	2012-Present
▪ Active member, volunteer, and mentor, Medical Students for Minority Concerns	2012-Present
▪ Volunteer, University of Wisconsin School of Medicine MEDiC Free Clinics	2012-Present
▪ Coordinator and trainer, Junior Youth Spiritual Empowerment Program	2009-Present
▪ Eight-time half marathon and two-time marathon participant	2006-Present
▪ Performing violinist and vocalist	2001-Present
▪ Youth Mentor, Louhelen Baha'i School, Retreat and Conference Center	2011-12
▪ Elected member, Davison Baha'i Local Spiritual Assembly	2011-12
▪ Appointed member, Claremont Cluster Baha'i Area Teaching Committee	2010-11
▪ Teacher's assistant, Sycamore Elementary School	2010-11
▪ Elected member, Claremont Baha'i Local Spiritual Assembly	2010-11
▪ Member and primary contact, Claremont Colleges Baha'i Club	2007-11
▪ Member, Pomona College Choir	2007-11
▪ Member, University College London Opera	2010

### **References**

Ana Martinez-Donate, PhD  
Associate Professor of Population Health Sciences  
University of Wisconsin  
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Madison, WI 53726

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Neuroscience Program Coordinator  
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