

Elizabeth Munoz

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EDUCATION AND POSITIONS

- 2015 – Present **Postdoctoral Scholar**, Department of Psychology
University of California, Riverside, Riverside, California
Mentor: Chandra Reynolds, Ph.D.
- 2015 **Ph.D.**, Human Development and Family Studies
Concentrations: Individual Development and Developmental Methodology
Pennsylvania State University, University Park, Pennsylvania
Dissertation: *Stress, cognition, and aging: An examination of predictors and mechanisms*. Chair: Martin J. Sliwinski, Ph.D.
- 2011 **M.S.**, Human Development and Family Studies
Pennsylvania State University, University Park, Pennsylvania
Thesis: *Rumination mediates the relationship between neuroticism and cognitive function*. Chair: Martin J. Sliwinski, Ph.D.
- 2009 **B.A.**, Psychology and Social Behavior
University of California, Irvine, Irvine, California
Thesis: *Cognitive functioning among older adults: Associations with chronic stress, depression, and loneliness*. Chair: Susan T. Charles, Ph.D.

GRANTS AND FELLOWSHIPS

- 2017 - 2019 **National Institute on Aging**; Ruth L. Kirschstein National Research Service Award Individual Postdoctoral Fellowship (F32AG056134)
Project Title: *The Role of Neighborhood Stress in Cognitive Function among Racially and Ethnically Diverse Adults*
- 2015 **Pennsylvania State University**; Joseph and Jean Britton Graduate Fellowship
- 2009 & 2013 **Pennsylvania State University**; Bunton-Waller Fellowship

PUBLICATIONS

Published/In Press

Munoz, E., Stawski, R.S., Sliwinski, M., Smyth, J.S., & MacDonald, S.W.S. (2018). The ups and downs of cognitive function: Neuroticism and negative affect drive performance inconsistency. *Journal of Gerontology: Psychological Sciences*. Advance online

publication. <https://doi.org/10.1093/geronb/gby032>

- Scott, S.B., **Munoz, E.**, Gamaldo, A.A., Mogle, J., Smyth, J.M., Almeida, D.M., & Sliwinski, M.J. (2018). Perceived neighborhood characteristics predict severity and emotional response to daily stressors. *Social Science & Medicine*, 200, 262-270. <https://doi.org/10.1016/j.socscimed.2017.11.010>
- Phibbs, S., Stawski, R. S., MacDonald, S. W. S., **Munoz, E.**, Smyth, J. M., & Sliwinski, M. J. (2017). The influence of social support and perceived stress on response time inconsistency. *Aging & Mental Health*, 27, 1-8. <https://doi.org/10.1080/13607863.2017.1399339>
- Stawski, R. S., MacDonald, S. W. S., Brewster, P. W. H., **Munoz, E.**, Cerino, E. S., & Halliday, D. W. R. (2017). A comprehensive comparison of quantifications of intraindividual variability in response times: A measurement burst approach. *Journal of Gerontology: Psychological Sciences*. Advance online publication. <https://doi.org/10.1093/geronb/gbx115>
- Hill, N. L., McDermott, C., Mogle, J., **Munoz, E.**, DePasquale, N., Wion, R., & Whitaker, E. (2017). Subjective cognitive impairment and quality of life: a systematic review. *International Psychogeriatrics*, 29, 1965–1977. <https://doi.org/10.1017/S1041610217001636>
- Mogle, J., **Munoz, E.**, Hill, N.L., Smyth, J.M., & Sliwinski, M.J. (2017). Daily memory lapses in adults: Characterization and influence on well-being. *Journal of Gerontology: Psychological Sciences*. Advance online publication. <https://doi.org/10.1093/geronb/gbx012>
- Massimo, L., **Munoz, E.**, Hill, N., Mogle, J., Mulhall, P., McMillan, C. T., ... Kolanowski, A. (2017). Genetic and environmental factors associated with delirium severity in older adults with dementia. *International Journal of Geriatric Psychiatry*, 32, 574–581. <https://doi.org/10.1002/gps.4496>
- Sliwinski, M. J., Mogle, J. A., Hyun, J., **Munoz, E.**, Smyth, J. M., & Lipton, R. B. (2016). Reliability and validity of ambulatory cognitive assessments. *Assessment*. <https://doi.org/10.1177/1073191116643164>
- Hill, N. L., Mogle, J., Wion, R., **Munoz, E.**, DePasquale, N., Yevchak, A. M., & Parisi, J. M. (2016). Subjective cognitive impairment and affective symptoms: A systematic review. *The Gerontologist*, 56, 109–127. <https://doi.org/10.1093/geront/gnw091>
- Munoz, E.**, Sliwinski, M., Scott, S., & Hofer, S. (2015). Global perceived stress predicts cognitive change in older adults. *Psychology and Aging*, 30, 487-499. <https://doi:10.1037/pag0000036>.

Scott, S. B., Graham-Engeland, J. E., Engeland, C. G., Smyth, J. M., Almeida, D. M., Katz, M. J., **Munoz, E.**, Ram, N., & Sliwinski, M. J. (2015). The Effects of Stress on Cognitive Aging, Physiology and Emotion (ESCAPE) project. *BMC Psychiatry*, 15. <https://doi:10.1186/s12888-015-0497-7>.

Hill, L. N., Mogle, J., **Munoz, E.**, Colancecco, E., & Wion, R. (2015). Assessment of subjective cognitive impairment among older adults. *Journal of Gerontological Nursing*. <https://doi:10.3928/00989134-20150309-01>.

Munoz, E., Sliwinski, M. J., Smyth, J. M., Almeida, D. M., & King, H. A. (2013). Intrusive thoughts mediate the association between neuroticism and cognitive function. *Personality and Individual Differences*, 55, 898–903. <https://doi:10.1016/j.paid.2013.07.019>.

In Revision (*undergraduate student author; † graduate student author)

Munoz, E., Arogyaswamy, S. *, Petkus, D., Gatz, M., & Reynolds, C.A. An assessment of life events checklist measures: Severity appraisals and individual differences.

Munoz, E., Filshtein, T., Bettcher, B., McLaren, D., Hedden, T., Wharton, W., Mungas, D., & Therneau, T. Cognitive function and neuropathological outcomes: A forward-looking approach.

Under Review (*undergraduate student author; † graduate student author)

Reynolds, C.A., Smolen, A., Corley, R.P., **Munoz, E.**, Friedman, N.P., Rhee, S.H., Stallings, M.C., DeFries, J.C., & Wadsworth, S.J. APOE effects on cognition from childhood to adolescence.

In Preparation (*undergraduate student author; † graduate student author)

Munoz, E., Sliwinski, M.J., Kaplan, R., Lipton, R., Davis, S., Gallo, L.C., ... Isasi, C.R. Stress is associated with neurocognitive function in Hispanic/Latino adults: Results from HCHS/SOL Socio-Cultural Ancillary Study. *Data analysis complete; draft in progress*.

Munoz, E., Reynolds, C.A., for the IGEMS consortium. Life events moderate genetic contributions to cognitive function among older adults. *Data analysis and draft in progress*.

Trubenstein, B. P. †, **Munoz, E.**, Corley, R., Reynolds, C.A., & Wadsworth, S.A. Best practices for using Geographic Information Systems (GIS) in the social sciences. *Data analysis complete; draft in progress*.

CONFERENCE PRESENTATIONS

Conference Talks

Munoz, E., Scott, S., Corley, R., Wadsworth, S., Sliwinski, M.J. & Reynolds, C. A. (2018). *The Role of neighborhood contexts on cognitive function: A coordinated analysis*. In **E. Munoz**

(Chair), Contextual Influences on Health Well-Being. To be presented at the Gerontological Society of America's Annual Scientific Meeting; Boston, MA.

Reynolds, C.A., Tan, Q., **Munoz, E.**, Jylhävä, J., Hjelmberg, J., Christiansen, L. ... Pedersen, N.L. (2018). *A decade of epigenetic change in aging twins: genetic and environmental contributions to longitudinal DNA methylation*. Paper to be presented at the American Society of Human Genetics; San Diego, CA.

Munoz, E., & Reynolds, C.A., for the IGEMS Consortium (2018). *Life event severity moderates genetic influences on cognitive function*. Paper presented at the 48th Behavior Genetics Annual Meeting; Boston, MA.

Munoz, E., Gatz, M., Schoenhofen Sharp, E., Pedersen, N.L., & Reynolds, C.A. (2017). *Cognitive trajectory patterns predict incident dementia risk in older Swedish adults*. Presented at the 21st IAGG World Congress of Gerontology and Geriatrics; San Francisco, CA.

Munoz, E., Wadsworth, S., Corley, R. & Reynolds, C.A. (2017). *The effect of neighborhood context on cognitive function in middle adulthood*. Presented at the 21st IAGG World Congress of Gerontology and Geriatrics; San Francisco, CA.

Reynolds, C.A., **Munoz, E.**, Wang, Z., Morris, T., Pedersen, N. & Hägg, S. (2016). *DNA methylation in aging twins across 10 years: Heritable and environmental contributions*. Paper presented at the American Society for Human Genetics; Vancouver, Canada.

Scott, S., **Munoz, E.**, Gamaldo, A., Smyth, J., Almeida, D. & Sliwinski, M. (2016). *Neighborhood insecurity, social cohesion, and violence prolong emotional responses to everyday stressors*. Paper presented at the Gerontological Society of America's Annual Scientific Meeting; New Orleans, LA.

Munoz, E., Scott, S., Hyun, J., Almeida, D., Smyth, J. & Sliwinski, M. (2015). *Perceived neighborhood quality and cognitive function: Contrasting effects on in-lab and ambulatory assessments*. In **E. Munoz** (Chair), Contextual Effects on Well-Being and Cognition from Mid to Late Life. Presented at the Gerontological Society of America's Annual Scientific Meeting; Orlando, FL.

Scott, S., **Munoz, E.**, Almeida, D., Smyth, J., Lipton, R. & Sliwinski, M. (2015). *Current activities, social partners, and location as micro-context for mood*. In **E. Munoz** (Chair), Contextual Effects on Well-Being and Cognition from Mid to Late Life. Presented at the Gerontological Society of America's Annual Scientific Meeting; Orlando, FL.

Hyun, J., **Munoz, E.** & Sliwinski, M. (2015). *Ambulatory cognitive throughput relates to aging and contextual influences*. Presented at the Gerontological Society of America's Annual Scientific Meeting; Orlando, FL.

- Massimo, L., **Munoz E.**, Hill, N., Mogle, J., Fick, D., Mulhall, P. & Kolanowski, A.A. (2015). *Associations of APOE status and delirium severity in older adults with dementia*. Presented at the Gerontological Society of America's Annual Scientific Meeting; Orlando, FL.
- Sliwinski, M., Mogle, J., Hyun, J., **Munoz, E.**, & Smyth, J. (2015). *Measurement burst designs for enhancing longitudinal methods*. Presented at the Dallas Aging and Cognition Conference; Dallas, TX.
- Munoz, E.**, Mogle, J., Scott, S., Sliwinski, M., Smyth, J., & Almeida, D. (2014). *Facets of neuroticism differentially predict exposure and reactivity to daily events*. In S. Scott (Chair), *Mediators and Moderators of the Effects of Daily Stressors on Emotion and Cognition*. Paper presented at the Gerontological Society of America's Annual Scientific Meeting; Washington, D.C.
- Munoz, E.**, Scott, S., Mogle, J., Sliwinski, M., Smyth, J., & Almeida, D. (2014). *Individual differences in affective reactivity to daily uplifts*. In C. Matz-Costa (Chair), *The Use of Daily Life Methods in Aging Research: Insights from Four Studies*. Paper presented at the Gerontological Society of America's Annual Scientific Meeting; Washington, D.C.
- Munoz, E.**, Scott, S., & Sliwinski, M. (2013). *Perceived stress and cognitive change in older adults*. In **E. Munoz** (Chair), *Perceived Stress: Effects on Cognitive and Brain Aging*. Symposium presented at the Gerontological Society of America's Annual Scientific Meeting; New Orleans, LA.
- Sliwinski, M., Almeida, D., Martire, L., Mogle, J., **Munoz, E.**, & Wilson, S. (2011). *Momentary and daily relationships between subjective health and affect*. Paper presented at the Gerontological Society of America's Annual Scientific Meeting; Boston, MA.
- Munoz, E.**, Morack, J., King, H., Stawski, R., Smyth, J., & Sliwinski, M. (2010). *Rumination mediates the relationship between neuroticism and cognitive function*. Poster presented at the Cognitive Aging Conference; Atlanta, GA.
- Poster Presentations** (*undergraduate student author; † graduate student author)
- Allan, A.[†], **Munoz, E.**, Gamaldo, A., Mogle, J.A., Sliwinski, M., Scott, S.B. (2018). *Childhood disadvantage associated with greater physical health capabilities in adulthood*. Poster to be presented at the Gerontological Society of America's Annual Scientific Meeting; Boston, MA.
- Pasquini, G.[†], **Munoz, E.**, Gamaldo, A. A., Mogle, J. A., Sliwinski, M. J., Scott, S. B. (2018). *Environmental stressors experienced in childhood are related to emotional well-being decades Later*. Poster to be presented at the Gerontological Society of America's Annual Scientific Meeting, Boston, MA.

Allan, A.[†], **Munoz, E.**, Gamaldo, A., Mogle, J.A., Sliwinski, M., Scott, S.B. (2018). *Retrospective reports of childhood disadvantage and adversity as predictors of disparities in adult health*. Poster and brief oral presentation presented at the New York City Epidemiology Forum; New York City, NY.

Jylhävä.J., Reynolds, C., Hjelmborg J., **Munoz, E.**, Tan, Q., Christiansen, L., Hägg, S., Pedersen, N.L. (2017). *Longitudinal variance components of the Horvath clock and its contributing CpGs*. Poster presented at the 47th Behavior Genetics Annual Meeting; Oslo, Norway.

Munoz, E., Reynolds, C. A., for the IGEMS consortium (2016). *The effect of life events on cognitive function among older adults*. Poster presented at the Gerontological Society of America's Annual Scientific Meeting; New Orleans, LA.

Staben, O.* , Trubenstein, B. †, **Munoz, E.**, Reynolds, C.A. (2016). Applying Geographic Information Systems in the Psychological Sciences. GIS Day. University of California Riverside.

Stawski, R.S., Brewster, P., **Munoz, E.**, & MacDonald, S.W.S. (2016). *A comprehensive comparison of quantifications of intraindividual variability in response times: Associations with attention switching performance*. Poster presented at the Nordic Congress of Gerontology; Tampere, Finland.

Qi, S.* , **Munoz, E.**, Graham-Engeland, J., Engeland, C., Smyth, J.M., Sciegaj, M., & Sliwinski, M.J. (2014). *The association between social isolation and chronic disease burden*. Poster presented at the Gerontological Society of America's Annual Scientific Meeting; Washington, D.C.

Munoz, E., Stawski, R.S., MacDonald, S.W.S., Smyth, J.S., & Sliwinski, M.J. (2014). *Neuroticism and response time inconsistency in adulthood*. Poster presented at the Gerontological Society of America's Annual Scientific Meeting; Washington, D.C.

Sliwinski, M.J., Mogle, J., & **Munoz, E.** (2014). *Measuring cognitive function in context: Validation of ambulatory cognitive testing*. Poster presented at the Cognitive Aging Conference; Atlanta, GA.

Graham-Engeland, J., Slavish D., **Munoz, E.**, Song S., Sliwinski, M. (2014). *Sleep quality and physical symptomatology among diverse mid-life adults is predicted by depressed mood and pain severity; the role of perceived stress, anxiety, and rumination*. Poster presented at the American Psychosomatic Society Annual Scientific Meeting; San Francisco, CA.

Munoz, E., Smyth, J., & Sliwinski, M. (2012). *Intrusive thoughts mediate the association between perceived discrimination and cognition*. Poster presented at the Cognitive Aging Conference; Atlanta, GA.

Munoz, E., Mogle, J., Smyth, J., & Sliwinski, M. (2011). *Not all events are the same: Age differences in negative affect according to appraisal of daily events.* Poster presented at the Gerontological Society of America's Annual Scientific Meeting; Boston, MA.

Mogle, J., **Munoz, E.,** Smyth, J., & Sliwinski, M. (2011). *Daily memory failures and negative affect: Another source of daily stress?* Poster presented at the Gerontological Society of America's Annual Scientific Meeting; Boston, MA.

Sliwinski, M., Orland, B., Davis, K.D. Bose, M., Sciegaj, M. Cole, A., C. Ferreri, P., & **Munoz,E.** (2011). *Perceptions of the natural environment and health among residents in Marcellus and non-Marcellus communities.* Symposium paper presented at the Marcellus Shale Multi-State Academic Research Conference; Altoona, PA.

Munoz, E., Mogle, J., Smyth, J., & Sliwinski, M. (2010). *Unconstructive repetitive thoughts are associated with prolonged negative mood in younger but not older adults.* Poster presented at the Gerontological Society of America's Annual Scientific Meeting; New Orleans, LA.

Kellenberger, C., **Munoz, E.,** Luong, G. & Charles, S.T. (2009). *Personal control predicts negative and positive affect in individuals with spinal cord injury.* Poster presented at the UCLA Psychology Undergraduate Research Conference; Los Angeles, CA.

Munoz, E. & Charles, S.T. (2009). *Cognitive functioning among older adults: Associations with chronic stress, depression and loneliness.* Symposium paper presented at the annual Undergraduate Research Opportunities Program Symposium; Irvine, CA.

Munoz, E., Piazza, J.R., Charles, S.T., & Dickerson, S. (2008). *Control beliefs when faced with the uncontrollable: Perceptions influence emotional outcomes.* Poster presented at the Gerontological Society of America's Annual Scientific Meeting; National Harbor, MD.

COLLOQUIUM PRESENTATIONS AND INVITED TALKS

Munoz, E. (2018, October). Stress and cognitive aging: the role of neighborhood contexts. Department of Human Development, California State University, Long Beach. Long Beach, CA.

Munoz, E. (2017, February). *Evaluating psychological predictors of intraindividual variability in response times.* Developmental Psychology Brown Bag, University of California, Riverside. Riverside, CA

AWARDS AND HONORS

June 2017	Butler-Williams Scholar <i>National Institute on Aging</i>
May 2013	RAND Summer Institute Scholarship
April 2012	Honorable Mention, <i>Ford Foundation Fellowship</i>
August 2010	Kathryn A. Shustek Scholarship <i>Pennsylvania State University</i>
2009 – 2012	NSF AGEP-SBE Scholar <i>Pennsylvania State University</i>
August 2009	Donald Ford Endowment for Professional Development <i>Pennsylvania State University</i>
June 2009	Dean's Scholar Award for Excellence in Research <i>University of California, Irvine</i>
January 2009	Dean's Award for Community Engagement <i>University of California, Irvine</i>
December 2008	Dean's Excellence in Scholarship Fund <i>University of California, Irvine</i>
2007 – 2009	Undergraduate Research Opportunities Program Fellow <i>University of California, Irvine</i>

ADDITIONAL TRAINING

Spatial Analysis

January 2018	Learning ArcGIS Desktop Web Course (31 hrs); ESRI training.
May 2017	Introduction to GIS (1 hr); University of California, Riverside Library.

Genetics

October 2017	Advanced Genetic Epidemiology Statistical Workshop; Richmond, VA.
September 2017	Advanced Psychometrics Methods Workshop: Genetics of Cognitive Aging; Friday Harbor, WA.
April 2017	Conference on Polygenic Prediction and its Application in the Social Sciences; University of Southern California, Los Angeles, CA.
March 2016	International Workshop on Statistical Genetic Methods for Human Complex Traits; Boulder, CO.

Methods

September 2015	Advanced Psychometrics Methods Workshop: Measuring and Modeling Early Cognitive Decline; Friday Harbor, WA.
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- July 2015 UC Intercampus Consortium on Health Psychology: Measurement and Quantitative Techniques Workshop; Irvine, CA.
- June 2015 Statistical Power Analysis. Society for Ambulatory Assessment Pre-Conference Workshop; University Park, PA.
- June 2012 Analyzing Intensive Longitudinal Data (Instructors: J.-P. Laurenceau and N. Bolger); University of Massachusetts Amherst, Amherst, MA.

Aging and Health

- November 2014 Cognitive Health Disparities Research and National Policy: An NIA Conference to Improve Research Skills in Minority Aging and Address the National Alzheimer's Plan, Gerontological Society of America's Pre-Conference Workshop; Washington, D.C.
- July 2013 RAND Mini-Medical School for Social Scientists and Workshop on Aging; Santa Monica, CA.

PROFESSIONAL SERVICE ACTIVITIES

- February 2015 Invited participant to the U.S. Young Leaders Discussion Series for Innovative Ideas to Address Dementia, Washington, D.C.
- 2010 – 2013 Diversity Committee Co-Chair, Human Development and Family Studies Graduate Steering Committee.

Ad Hoc Reviewer

Aging and Mental Health
Experimental Aging Research
Gerontology
International Journal of Stress Management
Journal of Family Psychology
Journal of Gerontology: Psychological Sciences
PLOS ONE
Psychology and Aging

PROFESSIONAL AFFILIATIONS

Gerontological Society of America (GSA), *Behavioral and Social Science Section*
 American Psychological Association (APA), *Division 20 (Adult Development and Aging)*

STUDENT RESEARCH SUPERVISION

- Alexa Allan (2017 – present; Stony Brook University): Master’s thesis student advised on coding, data preparation, and analysis of Area Deprivation Index based upon Census tract data from childhood address reports.
- Sagarika Arogyaswamy (2017 – 2018; UCR): Post-baccalaureate student advised on literature review and data analysis of life events. Now medical student at the California University of Science and Medicine.
- Addison Noel-Preciado (2016 – 2018; UCR): Undergraduate student, currently applying to graduate school, advised on programming for coding and processing of historical Census tract data.
- Omar Staben (2016-2018; UCR): Undergraduate student advised on data collection, processing, and analysis on life events and spatial analysis of neighborhood factors. Now doctoral student at Arizona State University.
- Jaime Sandoval (2016 – 2017; UCR): Undergraduate student advised on a UCR Student Min-Grant submission and data management and analyses related to intraindividual variability of executive function tasks.
- Sharon Qi (2014 – 2015; Penn State): Undergraduate student advised on data analysis and dissemination at a national conference on social isolation and health in midlife adults. Now MBA student at Penn State.

TEACHING EXPERIENCE

Co-Instructor: HD FS (129): Introduction to Human Development and Family Studies (1 semester; instructor rating = 6.0/7).

- Course covering an overview of cognitive, emotional, and social development across the lifespan as well as theoretical and methodological approaches to the study of individual and family development.
- Responsibilities included designing course syllabus, preparing and giving lectures, holding office hours, and managing gradebook and online course management system.

Teaching Assistant: Responsibilities included leading review sessions; holding office hours; giving guest lectures; managing gradebooks; creating exam questions; grading assignments, course papers, and exams; leading weekly lab sections (Empirical Inquiry).

- Empirical Inquiry (2 semesters; mean instructor rating = 6.6/7)
- Adult Development and Aging (2 semesters)
- Introduction to Human Development and Family Studies (1 semester)
- Values and Ethics in the Health and Human Development Professions (1 semester)
- Family Development (1 semester)

Guest Lectures:

“Multilevel Models and Measures of Variability” for Multivariate Statistics (Graduate Seminar; Fall 2018)

“Culture, Ethnicity, and Families” for Family Relationships (Fall 2014)

“Ethics” for Empirical Inquiry (Summer 2014)

“Supporting Healthy Aging with Leisure” for Inclusive Leisure Services (Fall 2013)

“Validity of Results: External and Internal Validity” for Empirical Inquiry (Summer 2013)

“Cognitive Aging” for Development throughout Adulthood (Spring 2013)

“Personality and Aging” for Adult Development and Aging (Spring 2013, Fall 2013 & 2014)

“Stress and Aging” for Adult Development and Aging (Fall 2012)

“Personality and Emotions” for Adult Development and Aging (Spring 2012)

“Memory” for Adult Development and Aging (Spring 2011)

“Culture and Social Relationships” for Adult Development and Aging (Spring 2011)

“Cognition and Aging” for Adult Development and Aging (Fall 2010)

“Issues in Theory and Practice” for Values and Ethics in the Health and Human Development Professions (Fall 2010)

“Stress and Middle Adulthood” for Adult Development and Aging (Fall 2009)