Alfredo Dominguez Bolaños

Education

2016 – 2019	MA, Psychology (concentration: Cognition and Perception) New York University, New York, NY, USA Thesis- Prioritizing Visual Information in Working Memory: Neural Response in Visual Field Maps Mirror Probability
2014 – 2016	NIH Post-Baccalaureate Research and Education Program (PREP) The University of New Mexico, Albuquerque, NM, USA
2011 – 2012	BSc (Hons) Psychology Study Abroad (one-year exchange program) London Metropolitan University, London, UK
2010 – 2014	BA, Psychology San Francisco State University, San Francisco, CA, USA
Research Exper	<u>ience</u>
08/2016 – 01/2019	Graduate Research Assistant, Department of Psychology New York University, New York, USA Supervisor: Dr. Clayton E. Curtis • Eye tracking data collection and analysis • fMRI data collection and analysis • TMS data collection • Analysis script creation through Python, R, UNIX, and Matlab
08/2014 — 08/2016	 Presented results from fMRI and eye tracking data Research Assistant, The Mind Research Network University of New Mexico, Albuquerque, USA Supervisor: Dr. Julia M. Stephen Participant recruitment and scheduling MEG and EEG data collection Administered a battery of neuropsychological tests Analyzed MEG data from NIH NIAAA P20 study on FASD
11/2015 – 08/2016	 Presented results generated from FASD data NSF EPSCoR Research Assistant, The Mind Research Network University of New Mexico, Albuquerque, USA Supervisor: Dr. Julia M. Stephen Participant recruitment and scheduling MEG data, MRI data, and DNA sample collection
06/2015 — 08/2015	 UCSD STARS Research Assistant, Department of Neurosciences University of California, San Diego, USA Supervisor: Dr. Doris A. Trauner Analyzed diffusion tensor imaging data with DTI studio from patient population (perinatal stroke) and normally developing children Presented results of DTI data from perinatal stroke sample

09/2014 — 11/2014	Research Assistant, Department of Neurosciences University of New Mexico, Albuquerque, USA Supervisor: Dr. Fernando Valenzuela
	Administered patch clamp recording and in vitro electrophysiological recording on rat brains
	 Retrieved mice brain and created tissue slices from the central nervous system of rats
08/2013 —	Undergraduate Research Assistant, Cognitive Psychophysiology Laboratory
05/2014	San Francisco State University, San Francisco, USA
	Supervisor: Dr. Mark W. Geisler
	 Collected, analyzed, and cleaned data with AcqKnowledge Data Acquisition and Analysis Software
	 Carried out study's methodology; applied EEG cap and monitored participants
08/2013 —	Undergraduate Research Assistant, Personality and Well-Being Lab
05/2014	San Francisco State University, San Francisco, USA
	Supervisor: Dr. Ryan T. Howell
	 Worked with dataset generated from websites to extract relevant findings

- Compiled, maintained, and analyzed large datasets for further analysis through SPSS predictive analytics software

Other Professional Experience

2019 – 2020 Reviewer of Professional Development Proposals, Travel Scholarship, an abstracts for SACNAS The National Diversity in STEM Conference	d
2016 Panelist for the Panel Discussion at the STEM Cultural Colloquium: Gett	ing at
the Gap, University of New Mexico	
2014 – 2016 Mentor position for one on one mentoring at the Project for New Mexico	
Graduates of Color (PNMGC), University of New Mexico	
2014 Reviewer for the Student Research Grant Competition, Association for	
Psychological Science Student Caucus (APSSC)	
2014 Evaluator for Student Presentations at the Biomedical Research Symposium	ım,
University of New Mexico	
2011 – 2012 Undergraduate Tutor for Psychology 200: General Psychology, San France	cisco
State University	

Professional Membership

2014 – present	Society for Advancement of Chicanos and Native Americans in Science
2014 - 2018	Society for Neuroscience
2015 - 2017	Fetal Alcohol Spectrum Disorders Study Group
2014 - 2017	Research Society on Alcoholism
2014 - 2016	New Mexico Chapter Society for Neuroscience
2013 - 2014	Association for Psychological Science
2012 – present	The International Honors Society (Psi Chi) San Francisco State Chapter

Awards and Honors

2018	Graduate Research Assistantship – NIH Research Supplement to Promote
2015	Diversity in Health-Related Research Award, National Eye Institute
2017	Recipient of the Hispanic Association of Colleges and Universities (HACU) and Southwest Airlines Travel Award
2017	Honorable Mention for the 2017 Ford Foundation Fellowship Program at the
2017	pre-doctoral level
2016	Recipient of the Hispanic Association of Colleges and Universities (HACU) and
	Southwest Airlines Travel Award
2016	Recipient of travel scholarship to attend the 2016 Society for Advancement of
	Chicanos/Hispanics and Native American in Science (SACNAS) National
	Conference
2016	Peer Mentoring Scholarship from the Project for New Mexico Graduates of
	Color (PNMGC), University of New Mexico, Albuquerque, NM
2016	Research Society on Alcoholism Student Merit Award Recipient for the 2016
	RSA Scientific meeting, funded by NIAAA
2015	Travel Scholarship to attend the 2016 Emerging Researchers National (ERN)
	Conference in STEM
2015	Travel Scholarship to attend the 2015 Annual Biomedical Research Conference
	for Minority Students (ABRCMS)
2015	University of California, San Diego, Summer Training Academy for Research
	in the Sciences, funded by Frontiers for Innovation Scholars Program
2015	Recipient of the Hispanic Association of Colleges and Universities (HACU) and
	Southwest Airlines Travel Award
2015	Travel Scholarship to attend the 2015 Society for Advancement of
	Chicanos/Hispanics and Native American in Science (SACNAS) National
	Conference
2015	Research Society on Alcoholism Student Merit Award Recipient for the 2015
	RSA Scientific meeting, funded by NIAAA
2015	Scholarship awarded for poster presentation and exhibit at the annual Shared
	Knowledge Conference, Albuquerque, NM.
2014	National Institutes of Health (NIH) funded Post-Baccalaureate Research and
	Education Program (PREP) at The University of New Mexico
2014	Travel Scholarship Recipient, Purdue University, to attend the Big Ten+
	Graduate School Expo
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Publications

Bolaños, A. D., Coffman, B. A., Candelaria-Cook, F. T., Kodituwakku, P., & Stephen, J. M. (2017). Altered Neural Oscillations During Multisensory Integration in Adolescents with Fetal Alcohol Spectrum Disorder. *Alcoholism: Clinical and Experimental Research*, *41*(12), 2173-2184.

Conference Presentations

Talks:

- **A.D. Bolanos**, G.E. Hallenbeck, C.E. Curtis, (2017, September) Don't procrastinate, prioritize: prioritizing working memory. Presented at the 2017 Program in Cognition & Perception 38th Annual Miniconvention, New York, NY.
- **A.D. Bolanos**, B.A. Coffman, P. Kodituwakku, J.M. Stephen, (2016, August) Don't Look: Cerebellar and cortical activity during an antisaccade task in adolescents with FASD. Presented at the 2016 Summer Biomedical Research Symposium, Albuquerque, NM.
- **A.D. Bolanos**, B.A. Coffman, P. Kodituwakku, J.M. Stephen, (2016, March) Don't Look: Cerebellar and cortical activity during an antisaccade task in adolescents with FASD. Presented at the 25th annual Research Day, Albuquerque, NM.
- **A.D. Bolanos,** B.A. Coffman, J.F.L. Pinner, P. Kodituwakku, J.M. Stephen, (2016, February) Altered Neural Oscillations during Multisensory Integration in Adolescents with Fetal Alcohol Spectrum Disorder. Presented at the 2016 Emerging Researchers National (ERN) Conference in STEM, Washington, D.C.
- **A.D. Bolanos,** B.A. Coffman, J.F.L. Pinner, P. Kodituwakku, J.M. Stephen, (2015, October) Magnetoencephalography study on multisensory integration in adolescents with fetal alcohol spectrum disorder. Presented at the Society for Advancement of Chicanos/Hispanics and Native American in Science (SACNAS) National Conference, Washington, D.C.
- **A.D. Bolanos,** D.A. Trauner, (2015, August) Does the integrity of the superior longitudinal fasciculus in infants with a perinatal stroke affect language development? Presented at UCSD Summer Research Conference, San Diego, CA.

Posters with published abstract:

- **A.D. Bolanos**, B.A. Coffman, P. Kodituwakku, J.M. Stephen, (2016, November) Don't Look: Cerebellar and cortical activity during an antisaccade task in adolescents with FASD. Presented at the 46th Annual Society for Neuroscience National Meeting, San Diego, CA.
- **A.D. Bolanos**, B.A. Coffman, P. Kodituwakku, J.M. Stephen, (2016, June) Don't Look: Cerebellar and cortical activity during an antisaccade task in adolescents with FASD. Presented at the 39th annual RSA Scientific Meeting, New Orleans, LA
- **A.D. Bolanos**, B.A. Coffman, J.F.L. Pinner, P. Kodituwakku, J.M. Stephen, (2015, October) Magnetoencephalography study on multisensory integration in adolescents with fetal alcohol spectrum disorder. Presented at the 45th Annual Society for Neuroscience National Meeting, Chicago, IL.
- **A.D. Bolanos,** B.A. Coffman, J.F.L. Pinner, P. Kodituwakku, J.M. Stephen, (2015, June) Multisensory Integration in Adolescents with a Fetal Alcohol Spectrum Disorder. Presented at the 38th Annual RSA Scientific Meeting, San Antonio, TX.

Posters:

- **A.D. Bolanos**, G.E. Hallenbeck, C.E. Curtis, (2017, September) Don't procrastinate, prioritize: prioritizing working memory. Presented at the 2017 Program in Cognition & Perception 38th Annual Miniconvention, New York, NY.
- **A.D. Bolanos**, B.A. Coffman, P. Kodituwakku, J.M. Stephen, (2016, August) Don't Look: Cerebellar and cortical activity during an antisaccade task in adolescents with FASD.

- Presented at the 2016 Summer Biomedical Research Symposium, Albuquerque, NM.
- G.E. Hallenbeck, **A.D. Bolanos**, T.C. Sprague, C.E. Curtis, (2018, May) Frontal and parietal cortex make distinct contributions to the storage and allocation of resources that support WM. Presented at the 18th Annual Vision Sciences Society Meeting, St. Pete Beach, FL.
- J.M. Stephen, J. Pinner, A. Bolanos, E. Kodituwakku, P. Kodituwakku, (2017, June) Probing Neurophysiological Changes Across The Developmental Spectrum Due To Prenatal Alcohol Exposure. Presented at the 40th Annual RSA Scientific Meeting, Denver, CO.
- J.F.L. Pinner, B.A. Coffman, **A.D. Bolanos**, P. Kodituwakku, J.M. Stephen, (2017, June) Joint Independent Component Analysis of Brain Structure and Function in Adolescents with FASD. Presented at the 40th Annual RSA Scientific Meeting, Denver, CO.
- **A.D. Bolanos**, B.A. Coffman, P. Kodituwakku, J.M. Stephen, (2016, October) Don't Look: Cerebellar and cortical activity during an antisaccade task in adolescents with FASD. Presented at the Society for Advancement of Chicanos/Hispanics and Native American in Science (SACNAS) National Conference, Long Beach, CA.
- **A.D. Bolanos**, B.A. Coffman, P. Kodituwakku, J.M. Stephen, (2016, March) Don't Look: Cerebellar and cortical activity during an antisaccade task in adolescents with FASD. Presented at the annual Health Sciences Center Neuroscience Day, Albuquerque, NM.
- **A.D. Bolanos,** B.A. Coffman, J.F.L. Pinner, P. Kodituwakku, J.M. Stephen, (2015, November) Altered Neural Oscillations during Multisensory Integration in Adolescents with a Fetal Alcohol Spectrum Disorder. Presented at the 2015 Annual Biomedical Research Conference for Minority Students (ABRCMS), Seattle, WA.
- **A.D. Bolanos,** B.A. Coffman, J.F.L. Pinner, P. Kodituwakku, J.M. Stephen, (2015, October) Magnetoencephalography study on multisensory integration in adolescents with fetal alcohol spectrum disorder. Presented at the 45th Annual Society for Neuroscience National
- **A.D. Bolanos,** B.A. Coffman, J.F.L. Pinner, P. Kodituwakku, J.M. Stephen, (2015, September) Magnetoencephalography study on multisensory integration in adolescents with fetal alcohol spectrum disorder. Presented at The Mind Research Network Annual Research Day Meeting, Albuquerque, NM.
- **A.D. Bolanos**, B.A. Coffman, J.F.L. Pinner, P. Kodituwakku, J.M. Stephen, (2015, April) Magnetoencephalography study on sensory information processing in adolescents with a fetal alcohol spectrum disorder. Presented at the annual Shared Knowledge Conference, Albuquerque, NM. Awarded 2nd place in the poster exhibit.
- **A.D. Bolanos,** B.A. Coffman, P. Kodituwakku, J.M. Stephen, (2015, March) Auditory—Somatosensory Integration in Adolescents with a Fetal Alcohol Spectrum Disorder. Presented at the 24th annual Research Day, Albuquerque, NM.
- **A.D. Bolanos**, B.A. Coffman, J.F.L. Pinner, P. Kodituwakku, E. Kodituwakku, J.M. Stephen, (2015, March) A closer look at sound and touch processing in adolescents exposed to alcohol before birth. Presented at the annual Health Sciences Center Neuroscience Day, Albuquerque, NM.
- **A.D. Bolanos,** S.P. Niblett, T. Jackson, J. Miller, A. Ben-Zeev, and M.W. Geisler, (2014, May). Event-related potential (ERP's) reveal White participants reduce attention towards counter-stereotypic out-group members. Presented at the annual College of Science and Engineering Graduate Showcase, San Francisco, CA.
- **A.D. Bolanos,** R.T. Howell, (2014, May) Do Time Perspectives Predict Experiential Consumption? Presented at the annual convention for the Association for Psychological Science, San Francisco, CA.

Employment Experience

01/2016 —	AVID Tutor, Albuquerque Public Schools, Albuquerque, New Mexico, US
05/2016	 Managed and facilitated tutorial session for middle and high school
	students on a weekly basis
12/2012 -	Lead Mentor/Mentor, College Spring, San Francisco, California, US
06/2014	• Lead a team of mentors trough lesson planning for the delivery of SAT
	study material to a classroom of high school students on a weekly basis
04/2013 -	AVID Tutor, San Francisco City Unified School District, California, US
05/2014	 Managed and facilitated tutorial session for middle and high school
	students on a weekly basis
09/2012 —	Team Leader, Jumpstart, San Francisco, California, US
05/2014	• Allocated roles to a team of five corps members to execute a preschool
09/2010 —	Corps Member, Jumpstart, San Francisco, California, US
05/2011	 Executed weekly lesson plans for a group of five pre-k children to
	increase literacy, phonological, and reading comprehension skills

Additional Information

Proficient in office applicable software:

Microsoft office, Excel, Publisher and Powerpoint

Proficient in data analysis software:

Python, R, DTI Studio, FreeSurfer, Analysis of Functional NeuroImages (AFNI), FSL, Linux/Unix operating system, Neuromag, SPSS, Matlab, Octave, SQL

Proficient in stimuli presentation software and data collection techniques:

SR Research- Experiment Builder, MGL, Presentation, EyeTracker, MEG, EEG/EGI EEG, TMS, Neuropsychological Assessments, Psychtoolbox

Languages:

Spanish – spoken and written fluently