ÁNGEL GARCÍA DE LA GARZA

Columbia Mailman School of Public Health
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EDUCATION

Columbia University Mailman School of Public Health, New York, NY

August 2017 - Present

Doctor of Philosophy (Ph.D.) in Biostatistics

Cumulative GPA: 4.09/4.00

University of Pennsylvania, College of Arts and Sciences, Philadelphia, PA

May 2015

Bachelor of Arts in Mathematics, Statistics Minor (cum laude)

Major GPA: 3.68/4.00

RESEARCH EXPERIENCE

Neuroimaging Data Analyst

August 2015 - Present

Neuropsychiatry Program, Penn Medicine

Philadelphia, PA

- Used generalized additive mixed effects models (GAMM) to analyze multimodal longitudinal neuroimaging data from the Philadelphia Neurodevelopmental Cohort.
- Developed scripts for the mass univariate voxelwise analysis of neuroimaging data using R.
- Assisted in the management, processing, and quality assurance of neuroimaging, and clinical data.

Undergraduate Research Assistant

January 2015 - July 2015

Department of Statistics, the Wharton School of the University of Pennsylvania

Philadelphia, PA

- Completed an independent study under the supervision of Professors Linda Zhao and Lawrence Brown on the applications of data mining to healthcare.
- Analyzed clinician efficiency and appointment scheduling in the Neurology Department at the Hospital of the University of Pennsylvania using appointments data from the Penn Health System.

AWARDS & HONORS

Allan Rosenfield Scholarship, Mailman School of Public Health	2017
Initiative for Maximizing Student Development Fellowship, Mailman School of Public Health	2017
Joint Statistical Meetings Diversity Workshop and Mentoring Program Travel Award	2016
Eastern North American Region of the International Biometric Society Diversity Workshop Travel Award 2016	
Dean's List, University of Pennsylvania	2014-2015
Cipactli Latino Honor Society Inductee, University of Pennsylvania	2013
State Department Summer Science Camp Scholarship, Institute of the Americas, San Diego	2010

PUBLICATIONS

- Garcia de la Garza, Angel., Vandekar, S.N., Roalf, D.R., Ruparel, K., Gur, R.E., Gur, R.C., Satterthwaite, T.D., Shinohara, R.S. *Voxel: Software for Voxelwise Analysis of Brain Images Using Linear, Nonlinear and Mixed-Effects Models.* (Manuscript in preparation for *Neuroinformatics*)
- Xia, C.H., Ma, Z., Ciric, R., Gu, S., Betzel, F.R., Kaczkurkin A.N., Calkins, M.E., Cook, P.A., **Garcia de la Garza**, **A.**, Vandekar, S.N., Moore, T.M., Roalf, D.R., Ruparel, K., Wolf, D.H., Davatzikos, C., Gur, R.C., Gur, R.E., Shinohara, R.T., Bassett, D.S., Satterthwaite, T.D. *Linked dimensions of psychopathology and connectivity in functional brain networks. (Submitted to Nature Neuroscience).*
- Rosen A*, Roalf DR*, Garcia **de la Garza A**, Elliott MA, Blake J, Villa P, Seelaus K, Ruparel K, Quarmley M, Davatzikos C, Schmitt JE, Shinohara RT, Gur RE, , Craddock C, Gur RC, Satterthwate TD. *Data-driven measures of structural image quality*. (Submitted to *Neuroimage*)
- Pehlivanova M, Wolf DH, **Garcia de La Garza A**, Ciric R, Rosen A, Kaczkurkin A, Gur RC, Gur RE, Kable J, Satterthwaite TD. *Cortical thinning is associated with impulsive choice in adolescence*. (submitted to *Journal of Neuroscience*)
- Roalf, D.R., **Garcia de la Garza**, **A.**, Calkins, M.E., Moore, T.M., Quarmley, M., Ruparel, K., Rupert, P., Elliott, M.A., Satterthwaite, T.D., Gur, R.C., Gur, R.E. *Microstructural White Matter Abnormalities in Youth with Psychosis Spectrum Symptoms: A longitudinal perspective*. (Manuscript in preparation for *JAMA Psychiatry*)
- Kaczkurkin, A.N., Moore, T.M., Calkins, M.E., Ruparel, K., Rosen, A., Ciric R., **Garcia de la Garza, A.**, Shinohara, R.T., Vandekar, S.N., Pine, D.S., Leibenluft, E., Scott, C., Foa, E.B., Elliot, A.M., Gennatas, E.D., Roalf, D.R., Wolf, D.H., Detre, J.A., Gur, R.E., Gur, R.C., Satterthwaite, T.D. *Common and Dissociable Regional Cerebral Blood Flow Differences Associate with Dimensions of Psychopathology Across Categorical Diagnoses*. (Submitted to *Molecular Psychiatry*)
- Nassar, R., **Garcia de la Garza**, **A.**, Moore, T.M., Ruparel, K., Lorch, S., Gur, R.E., Gur, R.C., Satterthwaite, T.D., *Imaging Patterns in Late Preterm Youth Mediate Cognitive Development*. (Submitted to *Pediatrics*)

CONFERENCE ABSTRACTS

- Roalf, D.R., **Garcia de la Garza**, **A.**, Calkins, M.E., Moore, T.M., Quarmley, M., Ruparel, K., Rupert, P., Elliott, M.A., Satterthwaite, T.D., Gur, R.C., Gur, R.E. *Microstructural White Matter Abnormalities in Youth with Psychosis Spectrum Symptoms: A longitudinal perspective*. Annual Meeting of the American College of Neuropsychopharmacology. Accepted for presentation December 2016.
- Kaczkurkin, A.N., Moore, T.M., Calkins, M.E., Ruparel, K., Rosen, A., Ciric R., **Garcia de la Garza, A.**, Shinohara, R.T., Vandekar, S.N., Pine, D.S., Leibenluft, E., Scott, C., Foa, E.B., Elliot, A.M., Gennatas, E.D., Roalf, D.R., Wolf, D.H., Detre, J.A., Gur, R.E., Gur, R.C., Satterthwaite, T.D. *Common and Dissociable Regional Cerebral Blood Flow Differences Associate with Dimensions of Psychopathology*

- Across Categorical Diagnoses. Annual Meeting of the American College of Neuropsychopharmacology. Accepted for presentation December 2016.
- Nassar, R., **Garcia de la Garza, A.**, Moore, T.M., Ruparel, K., Lorch, S., Gur, R.E., Gur, R.C., Satterthwaite, T.D., *Imaging Patterns in Late Preterm Youth Mediate Cognitive Development*. American Academy of Pediatrics National Conference. October, 2016.
- **Garcia de la Garza, A.**, Roalf, D.R., Ruparel, K., Satterthwaite, T.D., Bilker, W.B., Gur, R.C., Gur, R.E. *A quantitative comparison of linear and non-linear models to detect white matter differences in psychosis spectrum.* Thomas R. Ten Have Symposium on Statistics in Mental Health. June 2016
- García de la Garza, A., Olea López, J.R., Esquer Glaros, N., Astorga Paliza, J.F. Climatic Change and its Relationship with Volcanic Dust and Aerosols. 41º Congreso de Investigación y Desarrollo. Monterrey, México, January 2011.

SOFTWARE

voxel: R package for the mass-univariate voxelwise analysis of imaging NIfTI data, available at https://cran.r-project.org/web/packages/voxel/ (with S.N. Vandekar, T.D Satterthwaite, R.T. Shinohara)

ADDITIONAL INFORMATION

Languages: Spanish (native fluency), French (limited proficiency), Portuguese (limited proficiency)

Programing Languages: Proficient programming in R and Bash, intermediate experience programming in Java, basic experience programing in SQL.

Other Tools: FMRIB Software Library (FSL), git, LaTex, Adobe Photoshop.