CARLOS I. RODRIGUEZ, Ph.D.

Albuquerque, NM 87114 | rodriguez.carlosivan@gmail.com | 505-720-4312
LinkedIn: https://linkedin.com/in/carlosivanr | GitHub: https://github.com/carlosivanr

SUMMARY

Experimental psychologist with specialized training in translational neuroscience. Experienced in conducting clinical and preclinical research. Skilled in experimental research design, data management, and statistical analysis. Seeking a position on an effective team to contribute broadly to translational, interdisciplinary and innovative research.

SKILLS

Programming
- o MATLAB
- o Linux Shell Scripting
- o R
- o Python

Functional Neuroimaging
- o MNE Python
- o Group Independent Components Analysis Toolbox (GIFT)
- o Brain Connectivity Toolbox (BCT)
- o Statistical Parametric Mapping (SPM)
- o Analysis of Functional NeuroImages (AFNI)
- o fMRIPrep
- o FreeSurfer
- o Git & Github
- o Docker & Singularity

Data Science
- o Statistical modeling
- o Machine learning
- o Data management
- o Large scale data analysis
- o Graph theory

Laboratory
- o Animal behavior testing
- o Histology
- o Microscopy

Communication
- o Scientific Writing
- o Teaching
- o Research Mentoring
- o Fluent in Spanish

EDUCATION

Ph.D. in Behavioral Neuroscience, University of New Mexico   Aug 2015 – Jun 2018
- o Dissertation: The effects of prenatal alcohol exposure on resting state functional connectivity in a sample of adolescents with fetal alcohol spectrum disorder

M.S. in Behavioral Neuroscience, University of New Mexico   Aug 2012 – May 2015
- o With Distinction

B.A. in Biological Psychology, Western Colorado University   Aug 2002 – May 2007

EXPERIENCE

Postdoctoral Fellow   Mar 2020 – Present
The Mind Research Network
Principal Investigator: Jon Houck, Ph.D.

Program Specialist   Mar 2019 – Mar 2020
University of New Mexico, Center for Teaching & Learning
Center for Academic Program Support

Postdoctoral Fellow   Jun 2018 – Feb 2019
University of Texas At El Paso, Department of Psychology
VIDA-CARTT Program

TEACHING

Instructor: Psy 240: Introduction to Brain & Behavior   Jun 2016 – Jun 2018
        University of New Mexico, Albuquerque, NM

RESEARCH SUPPORT & AWARDS

Brain Research Organization, Scholarships to Enhance and Empower Diversity   2021
National Hispanic Science Network, Invited Panelist & Travel Award   2018
The Society for Neuroscience, Neuroscience Scholars Program   2017
The Ford Foundation, Dissertation Fellowship Award   2017
University of New Mexico, El Centro de la Raza; Research Fellowship   2016
University of Alabama, Birmingham, Best Oral Presentation   2016
The Marine Biological Laboratory, Summer Program in Neuroscience Ethics and Success 2015
University of New Mexico, El Centro de la Raza; Graduate Student Fellowship   2012

SELECT PUBLICATIONS (full list @ https://www.carlosivanrodriguez.com/publications/)

Rodriguez CI, Vergara VM, Calhoun VD, Savage DD, Hamilton DA, Tesche CD, Stephen JM. Disruptions in global network segregation and integration in adolescents and young adults with fetal alcohol spectrum disorder. 2021

Rodriguez CI, Vergara VM, Davies S, Calhoun VD, Savage DD, Hamilton DA. Detection of prenatal alcohol exposure using machine learning classification of resting-state functional network connectivity data. 2021

Rodriguez, C.I., Davies, S., Calhoun, V., Savage, D.D., Hamilton, D.A. Moderate prenatal alcohol exposure alters functional connectivity in the adult rat brain. 2016

Rodriguez, C.I., Magcalas, C.M., Barto D, Fink, B.C., Rice, J.P., Bird, C.W., Davies, S., Pentkowski, N., Savage, D.D., Hamilton, D.A. Effects of sex and housing on social, spatial, and motor behavior in adult rats exposed to moderate levels of alcohol during prenatal development. 2016

PROFESSIONAL MEMBERSHIPS

Society for the advancement of Chicanos/Hispanics & Native Americans in Science
Society for Neuroscience
Research Society on Alcoholism

COMMUNITY SERVICE

Student abstract reviewer, SACNAS   2021
Graduate student mentor, Society for Neuroscience   2020
Research mentor, Oak Ridge Institute for Science and Education/DTRA Joint Science & Tech Institute   2019
Speaker, Science, Technology, Engineering, Art, Math and Health Career Exploration Program   2016

HOBBIES

Acoustic Guitar
Woodworking
Mountain Biking