

Sofía Fernández Lozano

PSYCHOLOGY B.A. · NEUROBIOLOGY M.S. (EXPECTED JAN. 2020)

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Education

Universidad Nacional Autónoma de México (UNAM) & Instituto de Neurobiología (INB)

MASTER OF SCIENCE IN NEUROBIOLOGY

- Thesis: Brain Connectivity in Cocaine-addicted Patients after Repetitive Transcranial Magnetic Stimulation Treatment.
- Supervisor: Eduardo Garza-Villarreal PhD

Ciudad de México, México
Expected Jan 2020

Universidad Autónoma de Baja California (UABC)

BACHELOR OF ARTS WITH HIGHEST HONORS IN PSYCHOLOGY

- Scholar Merit (equivalent to Summa Cum Laude)

Tijuana, BC, México
Dec 2015

Experience

RESEARCH

Laboratorio Nacional de Imagen por Resonancia Magnética (LANIREM)

MASTER STUDENT RESEARCHER

- Moved over to the new location of the lab and continued the work of the research done in the INPRFM.
- I implemented a Machine Learning Algorithm to classify cocaine-dependence using global metrics of topology (Graph Theory Analysis).
- I am currently analyzing the data of the clinical trail and collaborating on the writing the article.

Querétaro, Qro, México
Jul. 2019 - PRESENT

Laboratory of Neuroimaging, National Institute of Alcohol Abuse and Alcoholism (NIAAA)

RESEARCH VISITOR

- I learned about the technique Functional Connectivity Density Mapping (FCDM) developed by Dr. Tomasi and implemented it on my own data.
- I presented my work on the intramural seminar of the NIAAA and NIDA at the NIH.

Bethesda, MD, USA
Mar. - May. 2019

Instituto Nacional de Psiquiatría “Ramón de la Fuente Muñiz” (INPRFM)

MASTER STUDENT RESEARCHER

- I collaborated in the *ongoing clinical trial* under the supervision of Eduardo Garza, PhD.
- I administered the TMS sessions to some of the patients in the study. I cleaned the clinical databases and statistically analyzed the clinical data using R. I acquired, organized in BIDS format, preprocessed and analyzed the MRI data using network science techniques.

Ciudad de México, México
Aug. 2017 - June. 2019

Yaaj México, A.C.

RESEARCH COORDINATOR

- I coordinated a project in collaboration with United Nations Office on Drugs and Crime (UNODC) to write a guide for professionals of Mental Health against Sexual Orientation and Gender Identity Change Efforts: “*Nada que curar*”.
- I was in charge with science divulgation related to sexual health, gender identity and sexual orientation in youth populations.

Ciudad de México, México
Mar. 2017 - Jul. 2019

Colegio de la Frontera Norte (COLEF)

RESEARCH INTERNSHIP

- I was an intern on the research project: Mexican parents’ attitudes toward gender equality in family roles and leadership.
- I administered the questionnaires to the parents in three different middle schools and captured the data for its analysis.

Tijuana, BC, México
Feb. - Sep. 2015

CLINICAL

Interpsique

PSYCHOMETRIST

- I administered, scored, and evaluated psychological tests under the supervision of a licensed psychology doctorate.

Tijuana, BC, México
Jan. 2016 - Mar. 2017

Hospital de Salud Mental de Tijuana (HSMT)

PSYCHOLOGY INTERN

- 240 supervised clinical hours in the Inpatient Psychiatric Care Unit: Occupational and group therapy, and clinical evaluations.

Tijuana, BC, México
Dec. 2014 - Mar. 2015

SOCIAL

COPRED (Council to prevent and eliminate discrimination in Mexico city)

CONSULTANT

- Worked in the design of the guidelines, interview of candidates and selection of the new President of COPRED.
- Gave expert advice related to new policies and guidelines related to discrimination matters in the city.

Ciudad de México, México
Apr. 2017 - Jul. 2019

- Designed and implemented empowering workshops for transgender women.
- Helped with the design of a study protocol to research the demographics of the trans* community in the northern border of México.

Publications

CHAPTER AND POSTERS

- FERNÁNDEZ-LOZANO, S. (2019). *Derechos sexuales y reproductivos; reflexiones para terapeutas* (Sexual and reproductive rights; reflections for therapists). In Gómez-Lamont, M.F. & Silva-Aragón, A. (Eds.), *Terapia familiar sistémica y la comunidad LGBT+ (Systemic family therapy and LGBT community)*. Ciudad de México, México: Pax & Leed
- Morelos-Santana, E., Garza-Villarreal, E., Alcalá-Lozano, R., Torres-Marcial, A., Villicaña-Muñoz, V., FERNÁNDEZ-LOZANO, S., DÁVALOS-GUZMÁN, A., MARTÍNEZ-GARCÍA, B., GONZÁLEZ-CANTÚ, H., REYES-ZAMORANO, E., GONZÁLEZ-OLVERA, J. (2019, Feb). *Effects of rTMS at 5 Hz over IDLPFC on inhibitory control and craving in cocaine dependent patients*. Poster session presented at the *BRAIN STIMULATION*, Vancouver, Canada.
- FERNÁNDEZ-LOZANO, S., ALCALÁ-LOZANO, R., MORELOS-SANTANA, E.D., VILICAÑA-MUÑOZ, V., GONZÁLEZ-CANTÚ, H., GONZÁLEZ-OLVERA, J.J., GARZA-VILLARREAL, E.A. (2018, Oct). *Análisis de teoría de grafos en redes funcionales después de un tratamiento doble ciego de EMTr en pacientes adictos a cocaína* (Graph theory analysis on functional networks after double-blinded rTMS on cocaine-addicts). Poster session presented at the *ANNUAL MEETING OF RESEARCHERS OF THE INSTITUTO NACIONAL DE PSIQUIATRÍA "RAMÓN DE LA FUENTE MUÑOZ"*, Ciudad de México, México.
- FERNÁNDEZ-LOZANO, S., ALCALÁ-LOZANO, R., MORELOS-SANTANA, E.D., VILICAÑA-MUÑOZ, V., GONZÁLEZ-CANTÚ, H., GONZÁLEZ-OLVERA, J.J., GARZA-VILLARREAL, E.A. (2018, Oct). *Effects of rTMS on the small-worldness of crack-cocaine addicts' functional connectivity networks*. Poster session presented at the *XX REUNION OF NEUROIMAGE AT THE RESEARCH CENTER IN MATH (CIMAT)*, Guanajuato, México.

CONFERENCES AND OTHER PROCEEDINGS

Oct 2019 (CONFERENCE)	Classification of cocaine dependence using topology of functional connectivity networks NEUROIMAGE REUNION XXI; CIMAT (Center of research in mathematics)	Guanajuato, México
Aug 2019 (HACKATON)	MRIQception NEUROHACKADEMY 2019; University of Washington	Seattle, WA, USA
May 2019 (HACKATON)	FANI-Pack (Find All New ICDs Package) WOMEN-LED BIO DATA SCIENCE HACKATON AT NIH; National Center for Biotechnology Information	Bethesda, MA, USA
May 2019 (CONFERENCE)	Functional connectivity network changes after rTMS treatment in cocaine addiction NIAAA & NIDA INTRAMURAL SEMINAR; National Institutes of Health	Bethesda, MA, USA
Nov 2018 (CONFERENCE)	[Brain connectome: studying the most complex network system] BRAIN WEEK; National High school #9 "Pedro de Alba"	Ciudad de México, México
Oct 2018 (CONFERENCE)	[Conversion therapy: psychology and human rights' perspective] 2ND ENCOUNTER ABOUT SEXUALITIES AND GENDER; UNAM (National Autonomous University of Mexico)	Ciudad de México, México
Jun 2018 (CONVERSATORIOUM)	[The right to an identity of transgender children and adolescents] Supreme Justice Tribunal of Mexico city	Ciudad de México, México
Jun 2018 (TV INTERVIEW)	[Talking intersex] Ciudad Abierta channel	Ciudad de México, México

Honours & Grants

FELLOWSHIPS & GRANTS

2019 - SCHOLARSHIP Ciudad de México, México	CONACYT - international (~\$2,000)
2019 - GRANT Ciudad de México, México	UNAM research visit grant (~\$1,300)
2017 - FELLOWSHIP Ciudad de México, México	CONACYT grad fellowship (~\$13,200)
2016 - HONOREE Guadalajara, Jal., México	EGEL-CENEVAL Excellence Award
2011 - SCHOLARSHIP Tijuana, BC, México	Scholarship for outstanding ENLACE scores

HONOURS & AWARDS

2016 - UNDERGRAD REP. Tijuana, BC, México	Ceremony for Honor Students
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Courses and workshops

Neurohackademy 2019

UNIVERSITY OF WASHINGTON

Neuroimaging and Data Science summer school and hackaton.

Seattle, WA, USA

Jul. - Aug. 2019

Bayesian Modeling of Brain Imaging Data

MICHELE GUINDANI, PHD; MEXICAN ASSOCIATION OF STATISTICS

Two-day intro course about Bayesian methods in fMRI analysis

Ciudad de México, México

Sep. 2017

Basic Course of Applied Neuroscience

AUTONOMOUS UNIVERSITY OF BAJA CALIFORNIA

Two-week course of diverse neuroscience conferences and classes for psychology students and recent graduates

Mexicali, BC, México

Aug. 2016

International Course of Neuropsychological Evaluation

JUAN-CARLOS ARANGO, PhD; SINAPSIS

Bases of application and evaluation of neuropsychological tests in cultures and languages other than those in North America and Western Europe

Mexicali, BC, México

Oct. 2015

Semester Abroad

UNIVERSIDAD DE SALAMANCA

Classes of clinical evaluation, education psychology and school counseling

Salamanca, Spain

Feb. - Jul. 2014

Skills & Certifications

Operating Systems

- Mac OS
- GNU/LINUX (Debian-based, Arch-based & Void)

Programming Languages

- R
- Shell (POSIX shell, bash & zsh)
- Python
- Javascript

Markup Languages

- \LaTeX
- Markdown
- JSON
- HTML

General Tools

- Git
- Docker
- Vim
- SGE

Neuroimaging Tools

- FSL
- AFNI
- ANTs
- BIDS
- MRIQC
- FMRIprep
- Mango

Certifications

- DATACamp: Analyst with R
- Programmer with R

Languages

- Spanish (Native)
- English (Fluent)