

**Nadia Saraí Corral Frías Ph.D.**

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**National System of Researchers**

**SNI:** 177692, Level 1

**EDUCATION AND TRAINING**

- 2013-2016     **Postdoctoral Training**  
Neurogenetics of Psychopathology  
Washington University in St. Louis  
Principal Investigator: Dr. Ryan Bogdan
- 2006-2012     **Ph.D. Neuroscience**  
Minor: Cognitive Sciences  
University of Arizona  
**Dissertation:** Reward and Anxiety: From rodent post-traumatic stress to human psychosocial stress  
Dissertation Committee: Dr. Jean-Marc Fellous, Dr. Edward French, Dr. Jake Jacobs and Dr. Lynn Nadel
- 2001-2005     **B.A. Psychology**  
Instituto Tecnológico de Estudios Superiores de Occidente (ITESO, México)  
**Thesis:** Behavioral knowledge in neural networks: A study in psychoepistemology  
Thesis advisor: Dr. José E. Burgos Triano

**ACADEMIC APPOINTMENTS**

- 2018-present   Associate Professor  
University of Sonora  
Psychology Department
- 2016-2018     Assistant Professor  
University of Sonora  
Psychology Department

**VISITING PROFESSORSHIPS**

- Summer 2021     **Center for Advanced Measurement of Personality and Psychopathology**  
*University of Notre Dame, Indiana, USA*
- Summer 2019     **Center for Advanced Measurement of Personality and Psychopathology**  
*University of Notre Dame, Indiana, USA*
- Fall 2018        **Center for Advanced Measurement of Personality and Psychopathology**  
*University of Notre Dame, Indiana, USA*

**RESEARCH INTERESTS**

- Mechanisms through which stress exposure, throughout the lifetime, may lead to individual differences in risk or resilience to the development of psychiatric disorders
- Cognitive and environmental protective factors against the deleterious effects of stress
- Genetic and environmental predictors (e.g. stress, social support) of individual differences in neural function (EEG and fMRI) and psychiatrically relevant cognitive behaviors such as reward learning or affective outcomes such as positive and negative affect
- Big Team Science, open science, generalizability, reproducibility and globalization of mind and brain sciences

**RESEARCH GRANTS**

- June 2022-2023   Health and Behavior International Collaborative Award from the American Psychosomatic Society  
Role: Co-Principal Investigator (Dr. Melissa Flores)
- March 2022-2023   PSiChi IPALS Research Grant  
Nombre del Proyecto: Access and Availability to Safe Outdoor Spaces and Wellbeing

- during the pandemic: comparison of Mexican and American Residents  
Investigador colaborador: Marc Yancy Lucas  
Estudiantes a cargo: Karla Garduño, Irais Cabrera, Víctor Corral, Paola Escobedo  
Fall 2021 Psi Chi Mamie Phipps Clark Research Grants  
Undergraduate Student Award for Damariss Andrade  
Name of the Project: Social Isolation during COVID-19 pandemic and its effect on mental health in a Mexican community
- July-December 2020 Consejo Nacional de Ciencia y Tecnología (CONACyT)  
Name of the Project: Predictores psicológicos, demográficos y contextuales de las conductas preventivas del COVID-19: Un modelo estructural  
Role: Co-Principal Investigator (Dr. Victor Corral and Dr. Martha Frías)
- January 2019-2020 Convocatoria Conjunta Extraordinaria Alianza Inter-Universitaria Arizona-Sonora Comorbilidad entre Depresión y Riesgo a Enfermedades Cardiovasculares en Mexicanos Viviendo en Ambos lados de la Frontera: Rol de Reactividad al Estrés  
Role: Co-Principal Investigator (Dr. John Ruiz)
- January 2019-2020 Notre Dame-Mexico Research Collaboration Grant  
Biopsychosocial predictors of depression and anxiety: A longitudinal study  
Role: Co-Principal Investigator (Dr. David Watson)
- July 2017- October 2018 PRODEP Grant for New Professors (No. e-094/2017)  
Hedonic capacity as a protective factor against stress in college students  
Role: Principal Investigator

## OTHER GRANTS

- Marzo 2022-2023 Collaborative Science: A Workshop on Doing Big Team Science for Researchers from Low and Middle-income Countries  
Society for the Improvement of Psychological Science grant-in-aid  
Colaboradoras/es: Alma Jeftic, Aishwarya Iyer, Neha Parashar, Natalia Dutra, Miguel Silan, Hans IJzerman

## ACADEMIC HONORS AND AWARDS

- 2021 SPSP Service to the Field Award as a member of the Psychological Science Accelerator  
2019 Finalist for Best Poster in 27th Mexican National Congress of Psychology (Student Poster: Sheila Velardez)  
2019 3<sup>rd</sup> Place for Best Poster in 27th Mexican National Congress of Psychology (Student Poster: Jennifer Espinoza)  
2017 Distinguished Research Group University of Sonora  
2016 Finalist for Best Poster in 24th Mexican National Congress of Psychology  
2015 Society for Research in Psychopathology President's Award  
2015 Ford Foundation Postdoctoral Fellowship Runner-up  
2013 NIMH NRSA Postdoctoral Training Grant (T-32) in Genetic Epidemiology, Molecular Genetics and Neurobiology  
2012 Finalist for Best Poster in 20th Mexican National Congress of Psychology  
2011 Graduate Interdisciplinary Program in Neuroscience Travel Grant  
2010 Society for Neuroscience Travel Grant  
2009 Herbert Carter Fund Travel Grant Graduate Interdisciplinary Programs  
2008 Best Poster in 16th Mexican National Congress of Psychology  
2007 Travel Grant from Computational Neuroscience Organization committee  
2006 CONACyT (Consejo Nacional de Ciencia y Tecnología; Mexican National Council of Science and Technology) Graduate Student Fellowship  
2005 Graduated with honors from Instituto Tecnológico de Estudios Superiores de Occidente  
2005 CONACyT Undergraduate Research Fellowship

## PEER REVIEW PUBLICATIONS

+Denotes mentored graduate or undergraduate student author.

1. **Corral-Frías NS**, Corona-Espinosa A, Watson D (2022) Validation a Spanish translation of the Faceted Inventory of the Five-Factor Model in two Student Samples from Northwest Mexico.

- Assessment*. 1-14. <https://doi.org/10.1177/10731911221083906>
2. Torres-Soto NY+, Corral-Verdugo V, **Corral-Frías NS** (2022) Self-care and positive family environment increases well-being. *Wellbeing, Space & Society*. 3:100076,1-9. <https://doi.org/10.1016/j.wss.2022.100076>
  3. Psychological Science Accelerator Self-Determination Theory Collaboration (2022). A global experiment on motivating social distancing during the COVID-19 pandemic. Proceedings of the National Academy of Sciences. <https://doi.org/10.1073/pnas.2111091119>
  4. Valenzuela B+, Cabrera I+, Frías-Armenta M, **Corral-Frías NS**. (2022) Ambiente Escolar Positivo, Conducta Sostenible y Bienestar Psicológico en Estudiantes de Educación Superior. *Psycology*. 13(2), 159-200. <https://doi.org/10.1080/21711976.2022.2034288>
  5. Velardez Soto SN, **Corral-Frías NS**, Camacho-Amaya M, McRae K. (2022) Cognitive Reappraisal Experimental Task: Replica in Mexican University Students. *Ansiedad y Estrés*, 28(1) 30–39. <https://doi.org/10.5093/anyes2022a3>
  6. Espinoza JL+, Frías-Armenta M, Lucas MY, **Corral-Frías NS**. (2022) Behavioral Activation System and early-life parental abuse are associated with antisocial behaviors in Mexican adolescents. *International Journal of Environmental Research and Public Health*. 19(3)1584 <https://doi.org/10.3390/ijerph19031584>
  7. Torres-Soto NS+, Corral Verdugo V, **Corral-Frías NS**. (2021) Diseño y validación de una escala de autocuidado. *Behavioral Psychology/Psicología Conductual*, 29(3), 721–741. <https://doi.org/10.51668/bp.8321312s>
  8. Hood A, Stotesbury H, Murphy J, Kölbl M, Slee A, Springall C, Paradis M, **Corral-Frías NS** Reyes Aguilar A, Cuellar Barboza A, Noser A, Gomes S, Mitchell M, Watkins SM, Butsch-Kovacic M, Kirkham FJ, Crosbi LE, Attitudes About COVID-19 and Health: A Mixed-Methods Smartphone-App and Online Survey Study (2021). *Journal of Medical Internet Research*. 8(10):e29963 <https://doi.org/10.2196/29963>
  9. Frías-Armenta M, **Corral-Frías NS** (2021) Positive university environment and agreeableness as protective factors against antisocial behavior in Mexican university students. *Frontiers in Psychology*. 12:662146. <https://doi.org/10.3389/fpsyg.2021.662146>
  10. Wang K., Goldenberg A., Dorison, C.A., Miller, J.K., Uusberg, A., Lerner, J.S., Gross, J.J., Agesin, B.B., Bernardo, M., Campos, O., Eudave, L., Grzech, K., Ozery, D.H., Jackson, E.A., Luis Garcia, E.O., Drexler, S.M., Jurković, A.P., Rana, K., Wilson, J.P.,...Lucas MY ... Moshontz, H. (2021) A multi-country test of brief reappraisal interventions on emotions during the COVID-19 pandemic. *Nature Human Behavior* <https://doi.org/10.1038/s41562-021-01173-x>
  11. Fernández KN+, **Corral-Frías NS**, Valenzuela E (2021) Validación y adaptación al español del cuestionario de relación médico paciente (PDRQ-9). *Psicumex*. 11(1), 1–19. <https://psicumex.unison.mx/index.php/psicumex/article/view/339/>
  12. Frías-Armenta M, **Corral-Frías NS**, Corral-Verdugo V, Lucas MY. (2021) Psychological predictors of precautionary behaviors in response to COVID-19: A structural model. *Frontiers in Psychology*. <https://doi.org/10.3389/fpsyg.2021.559289>
  13. Corral-Verdugo V, **Corral-Frías NS**, Frías-Armenta M, Lucas MY, Pena E (2021) Psychosocial environmental determinants of precautionary behaviors in response to COVID-19 in a sample of Mexican adults. *Frontiers in Psychology*. <https://doi.org/10.3389/fpsyg.2021.624155>
  14. Jones, B. C., DeBruine, L. M., Flake, J. K., et al., (2021). To Which World Regions Does the Valence-Dominance Model of Social Perception Apply?. *Nature Human Behavior*. 5, 159–169. <https://doi.org/10.1038/s41562-020-01007-2>
  15. Corral-Verdugo V, Robles Pacheco K, **Corral-Frías NS**, Hernández Ruiz B, Suárez E (2020) Variables que afectan la relación entre las conductas sustentables y sus repercusiones psicológicas positivas: rasgos de personalidad y costos conductuales. *Psicumex*. 10(1)1-20. <https://doi.org/10.36793/psicumex.v10i1.336>
  16. Gaxiola-Villa E, Gaxiola-Romero J, **Corral-Frías NS**, Escobedo P. (2020). Positive learning environment, academic engagement and self-regulated learning of bachelors students. *Acta Colombiana de Psicología*. 23(2),1. <https://doi.org/10.14718/ACP.2020.23.2.11>
  17. **Corral-Frías NS**, Velardez-Soto SN+, Corona- Espinosa A, Frías-Armenta M, Watson D. (2019) Concurrent Validity and Reliability of Two Short Forms of the Mood and Anxiety Symptom Questionnaire in a Student Sample from Northwest Mexico. *Journal of Psychopathology and Behavioral Assessment*, 41(2), 304-316. <https://doi.org/10.1007/s10862-019-09738-x>
  18. Corral-Frías VO, Lucas MY, **Corral-Frías NS**, Corral-Verdugo, Cesar Tapia-Fonllem. (2019)

- Assessment of Affinity towards Diversity using the Implicit Association Test and Self-Reports. Sustainability. 11(20),5825. <https://doi.org/10.3390/su11205825>
19. Lee MR, Shin JH, Deschaine S, Daurio AM, Bethany L, Stangl, Yan J, Ramchandani VA, Schwandt ML, Grodin EN, **Corral-Frías NS**, Hariri AR, Bogdan R Alvarez VA, Leggio L. (2019) A role for the CD38 rs3796863 polymorphism in alcohol and monetary reward: possible involvement of dopamine signaling. *The American Journal of Drug and Alcohol Abuse*. 1-13. <https://doi.org/10.1080/00952990.2019.1638928>
  20. Monzalvo Curiel A<sup>+</sup>, Fernandez KN<sup>+</sup>, Camacho Amaya M<sup>+</sup>, **Corral-Frías NS**. (2019) Validación de una adaptación al español de la escala de competencia socioemocionales profesores. *PsiCumex*. 9(1), 18-35. <https://doi.org/10.36793/psicumex.v9i1.182>
  21. DiIorio CR, Carey CE, Michalski L, **Corral-Frías NS**, Conley ED, Hariri AR, Bogdan R. (2017) Genetic Variation in the HPA axis predicts stress-related amygdala function and Structure: A biologically- informed multilocus profile study. *Psychoneuroendocrinology*. 80: 170-178. <https://doi.org/10.1016/j.psyneuen.2017.03.016>
  22. Eisenstein SAA, Bogdan R, Love-Gregory L, **Corral-Frías NS**, Koller, JM, Black KJ, Moerlein SM, Perlmutter JS, Barch DM, Hershey T. (2017). Prediction of striatal D2 receptor binding by DRD2/ANKK1 TaqIA allele status. *Synapse*. 70: 418-431. <https://doi.org/10.1002/syn.21916>
  23. **Corral-Frías NS**, Pizzagalli DA, Carré JM, Michalski LJ, Nikolova YS, Perlis RH, Fagerness J, Conley ED, Lee MR, Lancaster TM, Haddad S, Wolf A, Hariri AR, Smoller JW, Bogdan R. (2016). A common genetic variant in Catechol-O-methyl-transferase is associated with individual differences in reward- related response bias. *Genes, Brain and Behavior*. 15: 503-513. <https://doi.org/10.1111/gbb.12296>
  24. Waller R, **Corral-Frías NS**, Vannucci, B<sup>+</sup>, Bogdan, R, Knodt A, Hariri AR, Hyde LW. (2016). An oxytocin receptor polymorphism predicts amygdala reactivity and antisocial behavior in men. *Social Cognitive and Affective Neuroscience*. 11:1218-1226. <https://doi.org/10.1093/scan/nsw042>
  25. Baranger DAA, Ifrah C, Prather AA, Carey C, **Corral-Frías NS**, Conley ED, Hariri A, Bogdan R. (2016). PERIOD1 rs3027172 is associated with increased risk for problematic drinking in the context of early life stress. *Frontiers in Psychology*. 7:464. <https://doi.org/10.3389/fpsyg.2016.00464>
  26. **Corral-Frías NS**, Fellous JM, Nadel, L, Jacobs WJ. (2016). Behavioral and self-reported sensitivity to reward is linked to stress-related differences in positive affect. *Psychoneuroendocrinology*. 66:205-213. <https://doi.org/10.1016/j.psyneuen.2016.01.012>
  27. **Corral-Frías NS**, Nikolova Y, Michalski L, Baranger DAA, Hariri AR, Bogdan R. (2015). Stress-related anhedonia is associated with ventral striatum reactivity to reward and transdiagnostic psychiatric symptomatology. *Psychological Medicine*. 45: 2605–2617. <https://doi.org/10.1017/S0033291715000525>
  28. Fellous JM y **Corral-Frías NS**. (2015). Reliability and precision are optimal for non-uniform distributions of presynaptic release probability. *Journal of Biomedical Science and Engineering*. 8: 170-183. <https://doi.org/10.4236/jbise.2015.83017>
  29. **Corral-Frías NS**, Lahood RP<sup>+</sup>, Edelman-Vogelsang KE<sup>+</sup>, French ED, Fellous JM. (2013). Involvement of the ventral tegmental area in a rodent model of post-traumatic stress disorder. *Neuropsychopharmacology*. 38: 350-363. <https://doi.org/10.1038/npp.2012.189>

### Under Review

1. **Corral-Frías NS**, Frías-Armenta M, Corral-Verdugo V, Lucas MY. Capital y Responsabilidad Social y Conductas de Precaución Contra el COVID-19.
2. Frías-Armenta M, **Corral-Frías NS**, Serrano Arias M Social control, personal control, and legitimacy as explanations of anti-sociality in adolescents.
3. Velardez-Soto SN<sup>+</sup>, Camacho Amaya M<sup>+</sup>, McRae K, **Corral-Frías NS** Two Spanish versions of the Emotion Regulation Questionnaire Demonstrate Validity in Diverse Mexican Samples.
4. Camacho Amaya MY, <sup>+</sup> **Corral-Frías NS**, Velardez-Soto SN, <sup>+</sup> Reyes Piñuelas EP, McRae K. Age moderates the association between mood and anxiety symptoms and expressive suppression but not cognitive appraisal.
5. Conway LG et al. The Social Psychology of Pandemics Around the World: Evaluating the Effects of Age, Biological Sex, Political Beliefs, and Political Messaging Trust on Six Continents.

### In Preparation

1. Espinoza JL<sup>+</sup>, Frías-Armenta M, **Corral-Frías NS**. Interacción entre rasgos oscuros, virtudes y

- fortalezas y conductas antisociales en una población de internos mexicanos.
- Lucas MY Vargas S, Tapia-Fonllem C, **Corral-Frías NS**. Access to safe public environments increase self-report wellbeing.
  - Espinoza JL<sup>+</sup>, Frías-Armenta M, **Corral-Frías NS**. Triada oscura y facetas del Modelo de los Cinco Grandes: diferencias y similitudes entre psicopatía y maquiavelismo.
  - Corral-Frías NS**, Reyes Aguilar A, Andrade Verduzco DE, Watson D Stress, Personality, and Mental Health in a Longitudinal Study of Mexican University Students.
  - Corral-Frías NS**, Espinoza J, Ibarra Meavans A, Espinoza JL, Frías-Armenta M, Watson D Validity and Reliability of Heart Rate Variability in a Mexican University Student sample.
  - Andrade Verduzco DE, **Corral-Frías NS**, Reyes Aguilar A, Hood A. Loneliness and Depression and Anxiety Symptoms during the COVID-19 pandemic: A Longitudinal study in a Mexican sample
  - Lucas MY, Garduño-Realivazquez, Harris-O'Brien D, **Corral-Frías NS**. Getting a Bit of Fresh Air in the Time of COVID: A Validation of the Outdoor Spaces Safety, Desirability, and Access Scale (OSSDAS)

### BOOKS AND BOOK CHAPTERS

- Corral-Verdugo V, Frías-Armenta M, **Corral-Frías NS**, Lucas MY (En Prensa). A modern framework of Wellbeing from the perspective of Positive Environments.
- Serrano Arias M, **Corral-Frías NS**, Frías-Armenta M. (2020) Validación de escalas que miden habilidades sociales y emocionales en estudiantes de secundaria en el noroeste de México. En Gaxiola-Romero JC y Ruvalcaba Moreno NA (Eds) *Estudios iberoamericanos del comportamiento positivo en adolescentes*. Pgs. 233-255 Guadalajara, México: Editorial Universidad de Universidad de Guadalajara 978-607-547-920-0I.
- Corral-Frías NS**, Frías-Armenta M, Espinoza JL<sup>+</sup> (2020) Adversidad Durante la Infancia y su Efecto en el Cerebro: Implicaciones para el Desarrollo de Conductas Antisociales y la Importancia de la Justicia Transformativa En García López E (Ed) *Derecho Penal y Neurociencia*. Pgs ISBN: 978-607-506-065-9 Editorial: Instituto Nacional de Ciencias Penales, INCIPE.
- Corral-Frías NS** and Gaxiola-Romero J. (2015) Academic performance in Mexican at-risk adolescents: The role of executive functions. In Ortega E (Eds). *Academic achievements: Students attitudes, social influences, and gender differences*.
- Corral-Frías NS**, Michalski L, DiIorio C, Bogdan R. (2015) Imaging Genetics of the Hypothalamic-Pituitary-Adrenal Axis: The Role of Gene x Environment Interaction in Psychopathology. In Bigos KL, Hariri AR, Weinberger DR (Eds.). *Neuroimaging Genetics*. NY, Oxford University Press.
- Corral-Verdugo V, Frías-Armenta M, Gaxiola J, Fraijo B, Tapia C, **Corral-Frías NS**. (2014). Positive Environments: Designing sustainable scenarios for improved human welfare and environmental quality (Ambientes Positivos: Diseñando escenarios sustentables para el bienestar humano y la calidad ambiental) Pearson Educacion, Mexico D.F. Mexico.
- Corral-Verdugo V and **Corral-Frías NS**. (2009). Environments that Generate Delinquency (Ambientes Generadores de la Delincuencia) In: Corral-Verdugo V and Frías-Armenta M (Eds). *Juvenile Delinquency: Social, Judicial and Psychological Aspects*. (Delincuencia Juvenil: Aspectos Sociales, Jurídicos y Psicológicos.) Plaza y Valdes. 2nd edition, Mexico D.F., Mexico: 49-68.

### POSTER PRESENTATIONS

<sup>+</sup>Denotes mentored graduate or undergraduate student author.

- Hernández-Piña LL<sup>+</sup>, Mejía-Cruz D, **Corral-Frías, NS**. (2021, November) ¿Hay algún síntoma psicopatológico que caracterice a los que no descuentan sistemáticamente las ganancias? Poster presented in VIII Seminario Internacional sobre Comportamiento y Aplicaciones.
- Andrade D<sup>+</sup>, **Corral-Frías, N.S.**, Reyes-Aguilar A, Cuellar Barboza A, González S. (2022, March) Aislamiento social durante la pandemia de COVID-19 y su efecto en la salud mental en una comunidad mexicana. Poster presented in X Encuentro de Psicología de la Región Noroeste de CNEIP Comunidad como Campo de Acción de la Psicología. Virtual.
- Andrade D<sup>+</sup>, **Corral-Frías NS**, Reyes-Aguilar A, Cuellar Barboza A, González S (2021, November) Aislamiento social durante la pandemia de COVID-19 y su efecto en la salud mental en una comunidad mexicana. Poster presented in Congreso Mexicano de Psicología, virtual.
- Ibarra-Mevans A<sup>+</sup>, **Corral-Frías NS**, Flores MA (2021, October) Mental Health and its Effect on Health Behaviors Among University Students: A Longitudinal Study. Poster presented in 2021 Virtual Meeting of the Psychological Science Accelerator.

5. Mejías-Rojas L<sup>+</sup>, Frías-Armenta M, **Corral-Frías NS**. (2021, October) Proposal to Study Quality of Life Access to Justice and Social Support for Women Diagnosed with Breast Cancer. Poster presented in 2021 Virtual Meeting of the Psychological Science Accelerator.
6. Cruz M<sup>+</sup>, Frías-Armenta M, Corral-Frías NS. (2021, October) Validity and Reliability of a Scale to Access to Transformative Justice at work: A sample form Northwestern Mexico. Poster presented at PSACON2021, Virtual.
7. Horta-Guzmán, MD<sup>+</sup>, **Corral-Frías, NS**, Yancy-Lucas, M. (2021, October) Psychological well- being Through Sustainable Behaviors during the Covid-19 Pandemic. Poster presented in 2021 Virtual Meeting of the Psychological Science Accelerator.
8. Estrella-Gray, D, **Corral-Frías NS**, Norzagaray- Benitez C. (2021, October) Proposal of an exploratory study of the perception of inclusive education in university professors in Northern Mexico. Poster presented in 2021 Virtual Meeting of the Psychological Science Accelerator.
9. Corral-Frías MP, Corral-Frías NS, Grijalva-Martínez A, Osuna-Aguirre MX, López-Rangel JA (2021, October) Differences in Parental and Perceived Stress in Parents of Children With and Without Behavioral Disorder During the COVID-19 Pandemic in Mexican Population Poster presentado en AACAP's 68th Annual Meeting, virtual.
10. Velardez-Soto SN<sup>+</sup>, Camacho Amaya MY, Reyes Piñuelas EP, Martínez Trejo PH, **Corral-Frías NS** (2019, October) Propiedades psicométricas del cuestionario de regulación emocional de Gross en población mexicana. Poster presented at Congreso Mexicano de Psicología, Guadalajara, Jalisco, México.
11. Espinoza-Romero JL<sup>+</sup>, Velardez-Soto SN<sup>+</sup>, **Corral-Frías NS**, Frías-Armenta M (2019, October) Validación del Cuestionario de Personalidad de la Teoría de la Sensibilidad al Refuerzo en Estudiantes Poster presented at Congreso Mexicano de Psicología, Guadalajara, Jalisco, México.
12. Lucas MY, **Corral-Frías NS**, Corral-Verdugo V (2019, October) Ambientes positivos de manejo automovilístico: Relación positiva entre conductas viales positivas y el bienestar Poster presented at Congreso Mexicano de Psicología, Guadalajara, Jalisco, México.
13. **Corral-Frías NS**, Velardez-Soto SN<sup>+</sup>, Mendez-Olguin ZA<sup>+</sup>, Arvizu-Tánori AR<sup>+</sup>, Flores-Jiménez FM<sup>+</sup> (2018, July). Cognitive Reappraisal as a Mediator Between Stress and Anhedonic Symptoms in University Students in a Northwestern Mexican University. Poster presented at the 29th International Congress of Applied Psychology, Toronto, CA.
14. Velardez-Soto SN<sup>+</sup>, **Corral-Frías NS**, Flores-Jiménez FM<sup>+</sup>, Mendez-Olguin ZA<sup>+</sup>, Arvizu-Tánori AR<sup>+</sup>, Corona-Espinosa A, Watson D (2018, July) Concurrent Validity And Reliability Of The Mood And Anxiety Symptom Questionnaire Short-Form (MASQ-SF) In A Sample Of Students in Northwest Mexico. Poster presented at the 29th International Congress of Applied Psychology, Toronto, CA.
15. Espinoza-Romero JL<sup>+</sup>, **Corral-Frías NS**, Frías-Armenta M (2018, July) Dark Triad: Searching For Differences Between Psychopathy And Machiavellianism In A Mexican Sample. Poster presented at the 29th International Congress of Applied Psychology, Toronto, CA.
16. Lucas MY, **Corral-Frías NS**, Corral-Verdugo V, (2018, July) Validity And Reliability Of The Prosocial And Aggressive Driving Inventory (Padi) In A Sample Of Students In Northwestern Mexico. Poster presented at the 29th International Congress of Applied Psychology, Toronto, CA.
17. Demers C, Johnson K, Carey C, **Corral-Frías NS**, Swartz J, Hariri AR, Bogdan R. (2017, September) Elevated threat-related amygdala reactivity mediates effects of genome-wide risk for anxiety in the context of recent life stress. Poster presented at the 31<sup>st</sup> Annual Meeting of the Society for Research on Psychopathology, Denver, CO, USA.
18. **Corral-Frías NS**, Jones M, + Pan W, + Carey C, Baranger DAA, Hariri AR, Bogdan R. (2017, September) Subjective Well-being Polygenic Scores Are Associated With Decreased Depressive Symptoms: Possible Biological Mechanisms. Poster presented at the 31<sup>st</sup> Annual Meeting of the Society for Research on Psychopathology, Denver, CO, USA.
19. Espinoza-Romero JL<sup>+</sup>, **Corral-Frías NS**, Frías-Armenta M, (2017, July). Triada oscura: distinción entre constructos de psicopatía y maquiavelismo en una muestra de jóvenes mexicanos talk presented at Congreso Interamericano en Psicología, Mérida, Yucatán, México.
20. Valencia-Corral NO<sup>+</sup>, Frías-Armenta M, **Corral-Frías NS** (2017, July). Definición y operacionalización del constructo de figura de referencia de los niños en albergues talk presented at Congreso Interamericano en Psicología, Mérida, Yucatán, México.
21. DiIorio CR, **Corral-Frías NS**, Pan W, + Hariri AR, Bogdan R. (2016, Octubre). Genomewide significant associations with subjective well-being and depression are associated with amygdala function. Poster presented at 30th Annual Meeting of the Society for Research on Psychopathology, Baltimore, MA,

- USA.
22. Demers C, Carey C, Johnson K, **Corral-Frías NS**, Swartz J, Hariri AR, Bogdan R. (2016, October). Elevated threat-related amygdala reactivity mediates effects of genome-wide risk for anxiety. Poster presented at 30th Annual Meeting of the Society for Research on Psychopathology, Baltimore, MA, USA.
  23. **Corral-Frías NS**, Carey C, Knot A, Hyde L, Hariri AR, Bogdan R. (2016, October). Threat-related amygdala reactivity mediates the association between social support and future anxiety symptoms. Poster presented at el 30th Annual Meeting of the Society for Research on Psychopathology, Baltimore, MA, USA.
  24. **Corral-Frías NS**, Jones M, + Pan W, + Carey C, DiIorio CR, Hariri AR, Bogdan R. (2016, October). Genes asociados con bienestar psicológico están asociados con menor depresión: posibles mecanismos biológicos. Poster presented at 20th Congreso Mexicano de Psicología, Ciudad de México, México.
  25. **Corral-Frías NS**, Baranger DAA, Barch, DM, Bogdan R. (2016, March). Heritability of Well-Being: Association with Hippocampus Grey Matter Volume. Poster presented at 12th Washington University in Saint Louis Annual Postdoc Scientific Symposium, Saint Louis, MO, USA.
  26. **Corral-Frías NS**, Vannucci B+, Rodebaugh TL, Waller R, Hyde L, Conley ED, Hariri AR, Bogdan R. (2015, October). Oxytocin system genetic risk profile is associated with individual differences in threat-related amygdala reactivity. Poster presented at the 29<sup>th</sup> Annual Meeting of the Society for Research on Psychopathology, New Orleans, LA, USA.
  27. **Corral-Frías NS**, Vannucci B+, Rodebaugh TL, Waller R, Hyde L, Conley ED, Hariri AR, Bogdan R. (2015, April). Oxytocin system genetic risk profile is associated with individual differences in threat-related amygdala reactivity. Poster presented at the 11<sup>th</sup> Washington University in Saint Louis Annual Postdoc Scientific Symposium, Saint Louis, MO, USA.
  28. **Corral-Frías NS**, Nikolova Y, Michalski L, Baranger DAA, Hariri AR, Bogdan R. (2015, March). Ventral striatum reactivity indirectly predicts problematic alcohol use through stress-related anhedonia and coping mechanisms. Poster presented at the 2015 Guze Symposium, Saint Louis, MO, USA.
  29. **Corral-Frías NS**, Nikolova Y, Baranger DAA, Hariri AR, Bogdan R. (2014, September). Ventral Striatum reactivity predicts individual differences in stress-related anhedonia: Implications for vulnerability and resilience to depression and substance use disorder. Poster presented at the 28<sup>th</sup> Annual Meeting of the Society for Research on Psychopathology, Evanston, IL, USA.
  30. Vannucci B+, **Corral-Frías NS**, Faig K, Drabant E, Bogdan R, Hariri AR. (2014, September). Oxytocin receptor (OXTR) genotype (rs1042778) predicts individual differences in threat-related amygdala reactivity in young males. Poster presented at the 28<sup>th</sup> Annual Meeting of the Society for Research on Psychopathology, Evanston, IL, USA.
  31. **Corral-Frías NS**, Nikolova Y, Bogdan RH, Hariri AR. (2014, April). Increased ventral striatum reactivity to reward protects against stress-related anhedonia: Implications for vulnerability and resilience to depression. Poster presented at the 10<sup>th</sup> Annual Postdoc Scientific Symposium Washington University in Saint Louis, Saint Louis, MO, USA.
  32. **Corral-Frías NS**, Nadel L, Fellous JM, Jacobs WJ. (2012, October). Reward and Resilience: Sex Differences in Psychological and Physiological Responses to Stress (Recompensa y Resiliencia: Diferencias de Sexo en Respuestas Psicológicas y Fisiológicas al Estrés Psicosocial Experimental). Poster presented at the 20<sup>th</sup> Mexican Congress in Psychology (Congreso Mexicano de Psicología), Campeche, CAMP, México.
  33. **Corral-Frías NS**, Jacobs WJ, Nadel L and Fellous JM. (2011, November). Reward as a resilience factor: Responses to psychosocial stress. Poster presented at the 41<sup>st</sup> Annual Meeting of the Society for Neuroscience, Washington D.C., USA.
  34. Edelman-Vogelsang KE+, Lahood RP+, **Corral-Frías NS**, Valdes JL, French ED and Fellous JM (2011, November) Sex differences in a rat model of post-traumatic stress disorder. Poster presented at the 41<sup>st</sup> Annual Meeting of the Society for Neuroscience, Washington D.C., USA.
  35. **Corral-Frías NS**, Brookshire SW+, Edelman-Vogelsang KE+, Valdés JL, French ED and Fellous JM. (2010, November). Behavioral and electrophysiological studies of the ventral tegmental area after traumatic stress Poster presented at the 41<sup>st</sup> Annual Meeting of the Society for Neuroscience, San Diego, CA, USA.
  36. Watkins-de Jong L, Gereke B, **Corral-Frías NS**, Scott K, Martin G, Fellous JM. (2010, November). The traveling sales rat: learning efficient spatial navigation. Poster presented at the 41<sup>st</sup> Annual Meeting



- of the Society for Neuroscience, San Diego, CA, USA.
37. Song M, Cook S, **Corral-Frías NS** and Fellous JM. (2010, November). The role of the ventral tegmental area in the extinction of probabilistic events. Poster presented at the 41<sup>st</sup> Annual Meeting of the Society for Neuroscience, San Diego, CA, USA.
  38. **Corral-Frías NS**, Brookshire SW<sup>+</sup>, Edelman-Vogelsang KE<sup>+</sup>, Valdés JL, French ED, Fellous JM. (2010, August). Effects of traumatic stress in rats: behavioral, pharmacological and electrophysiological studies. (Efectos del estrés traumático en ratas: estudios conductuales, farmacológicos y electrofisiológicos). Poster presented at the 20<sup>th</sup> Mexican Congress of Behavioral Analysis (Congreso Mexicano de Análisis de la Conducta), Oaxtepec, MOR, México.
  39. Largent-Minles T, Yamamoto T, Campos C, **Corral-Frías NS**, Jiménez-Andrade J, Davis P, Ma S, Mantyh P, French ED, Davis T, Lai J, Hruby V, Porreca F, Vanderah T. (2009, October). Dual acting agonist/NK1 antagonist does not produce antinociceptive tolerance or reward in an animal model of neuropathic pain. Poster presented at the 40<sup>th</sup> Annual Meeting of the Society for Neuroscience, Chicago, IL, USA.
  40. **Corral-Frías NS**, Cremer J<sup>+</sup>, Valdés JL, Fellous JM and French ED. (2009, October). Role of ventral tegmental area in anxiety related disorders: electrophysiological changes after single foot shock and long-term behavioral effects of reversible inactivation. Poster presented at the 40<sup>th</sup> Annual Meeting of the Society for Neuroscience, Chicago, IL, USA.
  41. Cook SJ, **Corral-Frías NS**, Cremer J<sup>+</sup>, Valdés JL and Fellous JM. (2009, October). Learning to give up! The contribution of the dopaminergic system to extinction. Poster presented at the 40<sup>th</sup> Annual Meeting of the Society for Neuroscience, Chicago, IL, USA.
  42. **Corral-Frías NS**, Valdes JL, Fellous JM, French ED. (2008, November). Latent effects of inescapable foot-shock on Ventral Tegmental Area dopamine cell excitability. Poster presented at the 39<sup>th</sup> Annual Meeting of the Society for Neuroscience, Washington, D.C., USA.
  43. **Corral-Frías NS**, Valdes JL, French ED, Fellous JM. (2008, October). Latent effects of stress in rats: changes in excitability in dopaminergic cells of the ventral tegmental area. (Efectos latentes del estrés en ratas: Influencia en la excitabilidad de células dopaminérgicas del área tegmental ventral). Poster presented at the 16<sup>th</sup> Mexican Congress in Psychology (Congreso Mexicano de Psicología), Monterrey, NL, México.
  44. **Corral-Frías NS** and Fellous JM. (2007, October). Reliable spike patterns in CA1 cells through unreliable synapses: modeling an explanation. (¿Teléfono descompuesto en el cerebro? Patrones precisos de actividad neural en CA1 a partir de sinapsis no confiables: Modelando una explicación). Poster presented at the 15<sup>th</sup> Mexican Congress in Psychology (Congreso Mexicano de Psicología), Hermosillo, SON, México.
  45. Butaine A, **Corral-Frías NS** and Fellous JM. (2007, July). Emergence of reliable spike patterns in models of CA1 cells contacted by unreliable synapses. Poster presented at the 2007 Computational Neuroscience Meeting, Toronto, Ontario, Canada.
  46. **Corral-Frías NS** and Burgos JE. (2006, May). Knowledge about behavior in artificial neural networks: another case study. Poster presented at the 29<sup>th</sup> Society for the Quantitative Analyses of Behavior Meeting, Atlanta, GA, USA.

#### INVITED RESEARCH TALKS

1. **Corral-Frías NS**. Introducción a las neurociencias en el contexto neurojurídico. (2021, August) Diplomado en Neuropsicología Forense D43. Talk presented at Federación Mexicana de Criminología y Criminalística A.C.
2. **Corral-Frías NS**. Conversations with Global Adolescent Researchers (2021, Julio) Panel presented at the Society for Research in Adolescence Webinar.
3. **Corral-Frías NS**. Las bases psicobiológicas de los periodos críticos implicaciones para la pedagogía. (2020, September). Talk presented Conferencias de la licenciatura de Educación.
4. **Corral-Frías NS**. Salud Mental y Ambientes Universitarios Positivos. (2020, July). Talk presented 8va Jornada Académica de Psicología y 1era Jornada Interunidades: Edición internacional.
5. **Corral-Frías NS**. (2020, June) Psicopatología en estudiantes universitarios: el rol de la amígdala Talk presented 3er Simposio Psicomilenio.
6. **Corral-Frías NS**. (2019, December) Genética del Bienestar. Talk presented at XX Escuela Nacional De Biofísica Molecular, Hermosillo, Sonora, México.
7. **Corral-Frías NS**. (2019, October) Salud Mental. Talk presented at Semana de la Salud en el Hospital Licona Hermosillo, Sonora, México.



8. **Corral-Frías NS** (2017, May). Applications of Neuroscience in Psychology. Talk presented 5<sup>th</sup> Psychology Week. Universidad Autonoma de Baja California, Ensenada, Baja California, México.
9. **Corral-Frías NS** (2015, November). Gene and positive environment interactions: Insights into pro-social and pro-environmental behaviors. (Interacciones entre genes y ambientes positivos: comportamientos pro-sociales y pro-ambientales). Talk presented at the Second Biannual Symposium in Environmental Psychology (Segundo Simposio Binacional en Psicología Ambiental), Hermosillo, SON, México.

## SYMPOSIA

1. **Corral-Frías NS**, Frías-Armenta M, Espinoza JF, Watson DB (2021, June). Variabilidad de ritmo cardiaco como factor protector contra el estrés y los síntomas psiquiátricos en estudiantes universitarios/as. Platica presentada en Cerebro y Mente, CETYS Universidad Campus Tijuana.
2. Valenzuela B+, Cabrera I+, Frías-Armenta M, **Corral-Frías NS** (2020, December). Positive school environment, sustainable behavior and psychological well-being in higher education: Scale validation. Talk presented at the 5<sup>th</sup> International Conference On Psychology And Education, Bergamo, Italia.
3. **Corral-Frías NS**, Mendez-Olguin ZA+, Arvizu-Tánori AR, (2019, October) Efecto de incentivos monetarios y estrés en una tarea computarizada de aprendizaje a las recompensas. Talk presented at Congreso Mexicano de Psicología, Guadalajara, Jalisco, Mexico.
4. Frías-Armenta M, **Corral-Frías NS**, De la Maza Perez Tamayo, (2019, October) Elaboración y Validación de una Escala de Justicia Transformativa Talk presented at Congreso Mexicano de Psicología, Guadalajara, Jalisco, Mexico.
5. **Corral-Frías NS**, Bogdan R. (2016, January). Heritability of Well-being. Talk presented at the 6<sup>th</sup> biannual Interface of Psychology, Neuroscience, and Genetics Research day, Washington University in St. Louis, St. Louis, MO, USA.
6. Bogdan R, **Corral-Frías NS**, Hariri AR. (2015, October). Stress-related anhedonia is dependent upon relatively blunted VS reactivity to reward and predicts transdiagnostic psychopathology symptoms. Symposium presented at the 29<sup>th</sup> Annual Meeting of the Society for Research on Psychopathology, New Orleans, LA, USA.
7. **Corral-Frías NS**, Nikolova Y, Bogdan R, Hariri AR. (2014, April). Stress and Reward Function: Implications for Vulnerability and Resilience to Stress Related Psychiatric Disorders. Talk presented at Washington University in St. Louis School of Medicine Psychiatry Research Seminar, Psychiatry Grand Rounds, St. Louis, MO, USA.
8. **Corral-Frías NS**, Nikolova Y, Bogdan R, Hariri A. (2014, February). Increased ventral striatum reactivity to reward protects against stress-related anhedonia: Implications for vulnerability and resilience to depression Talk presented at the 2<sup>nd</sup> biannual Interface of Psychology, Neuroscience, and Genetics Research day, Washington University in St. Louis, St. Louis, MO, USA.
9. **Corral-Frías NS**, Bogdan, R, Binder E, Hariri A. (2013, November). Gene expression predicts threat-related amygdala reactivity and psychopathology. Talk presented at Association for Behavioral and Cognitive Therapy, Nashville, TN, USA.
10. **Corral-Frías NS** and Frías-Armenta M. (2012, October). Executive functions, attention and antisocial behaviors: a structural equations models. (Funciones ejecutivas, atención y conducta antisocial: Un modelo estructural). Symposium presented at the 20<sup>th</sup> Mexican Congress in Psychology (Congreso Mexicano de Psicología), Campeche, CAMP, México.
11. **Corral-Frías NS**, Gaxiola-Romero JC, Frías-Armenta M. (2012, October). Executive functions, self-regulation and resilience in at-risk high school students (Funciones ejecutivas, autorregulación y resiliencia de bachilleres en ambientes de riesgo). Symposium presented at the 20<sup>th</sup> Mexican Congress in Psychology (Congreso Mexicano de Psicología), Campeche, CAMP, México.
12. **Corral-Frías NS**. (2011, February). Individual and sex differences in response to traumatic stress. Talk presented at the GIDP in Neuroscience Student Seminar, Tucson, AZ, USA.
13. **Corral-Frías NS**. (2010, March). A rat model of post-traumatic stress disorder: Involvement of the ventral tegmental area. Talk presented at the GIDP in Neuroscience Student Seminar, Tucson AZ, USA.
14. **Corral-Frías NS**. (2009, August). Involvement of the ventral tegmental area in post-traumatic stress disorder. Talk presented at the GIDP in Neuroscience Data Blitz, Tucson, AZ, USA.
15. **Corral-Frías NS**. (2009, January). Latent effects of inescapable foot-shock on ventral tegmental area dopamine cell excitability. Talk presented at the Cognitive Sciences Brown Bag, Tucson, AZ, USA.

16. **Corral-Frías NS.** (2008, October). Latent effects of stress in rats: changes in excitability in dopaminergic cells of the ventral tegmental area. (Efectos latentes del estrés en ratas: Influencia en la excitabilidad de células dopaminérgicas del área tegmental ventral). Talk presented at Psychophysiology Laboratory Lab Meeting at the Autonomous University of Nuevo Leon (Universidad Autónoma de Nuevo León) Monterrey, NL, México.

## RESEARCH MENTORING

### Doctorate

- 2021- present      **Laura Hernández Pina:** Posgrado en Psicología.  
2nd place in the Dr. José Miro de la Secretaria del Estado de Sonora Science Prize  
*Universidad de Sonora, Hermosillo, Sonora, México*
- 2020- present      **Karla Garduño Realivazquez:** Programa Integral en Ciencias Sociales.  
*Universidad de Sonora, Hermosillo, Sonora, México*
- 2018- 2022      **Jennifer Espinoza Romero:** Programa Integral en Ciencias Sociales  
3rd Place for Best Poster in 27th Mexican National Congress of Psychology  
**Thesis:** Abuso de los padres, control social, conocimiento y ejercicio de derechos y conducta motivada asociados con la conducta antisocial en adolescente  
**Date of defense:** June 6<sup>th</sup> 2022  
*University of Sonora, Hermosillo, Sonora, México (Co-mentored: Dra. Martha Frías Armenta)*
- 2017- 2021      **Sheila Nataly Velardez Soto:** Posgrado en Psicología.  
*Universidad de Sonora, Hermosillo, Sonora, México*  
**Thesis:** Reapreciación cognitiva y apoyo social como factores protectores contra el estrés y síntomas psicopatológicos en estudiantes universitarios  
**Date of defense:** January 21<sup>st</sup> 2021
- 2017-2020      **Karla Nathalia Fernández:** Posgrado en Psicología.  
*Universidad de Sonora, Hermosillo, Sonora, México*  
**Thesis:** Ambiente hospitalario, relación médico-paciente, ambiente familiar y afrontamiento como predictores de la adherencia al tratamiento en Diabetes  
**Date of defense:** March 13<sup>th</sup> 2020
- 2016- 2018      **Alicia Monsalvo Curiel:** Programa Integral en Ciencias Sociales  
*University of Sonora, Hermosillo, Sonora, México*

### Masters

- 2021- presente      **Andrea Rodríguez:** Posgrado en Psicología.  
*Universidad de Sonora, Hermosillo, Sonora, México*
- 2020- present      **Anali Gomez Araiza:** Programa Integral en Ciencias Sociales.  
*Universidad de Sonora, Hermosillo, Sonora,*
- 2016- 2018      **Jennifer Espinoza Romero:** Programa Integral en Ciencias Sociales.  
*Universidad de Sonora, Hermosillo, Sonora, México (Co-mentor: Dra. Martha Frías Armenta)*  
**Thesis:** Bases Neurobiológicas de los rasgos de Personalidad Oscuros y su relación con Conductas antisociales  
**Date of defense:** August 18<sup>th</sup> 2018
- 2017- 2018      **Salvador Cabrera Alvarado:** Programa Integral en Ciencias Sociales.  
*Universidad de Sonora, Hermosillo, Sonora, México (Co-mentor: Dra. Martha Frías Armenta)*  
**Thesis:** Análisis comparativo de la Inteligencia Emocional, la Disuasión y la Legitimidad en Delincuentes  
**Date of defense:** August 17<sup>th</sup> 2018
- 2016- 2018      **Rosa Melina Millanes Vargas:** Programa Integral en Ciencias Sociales.  
*Universidad de Sonora, Hermosillo, Sonora, México (Co-mentor: Dra. Martha Frías Armenta)*  
**Thesis:** Factores asociados a la comisión de cyberbullying en estudiantes de educación secundaria en Hermosillo, Sonora  
**Date of defense:** August 20<sup>th</sup> 2018
- 2014- 2016      **Grecia Domínguez Cárdenas:** Programa Integral en Ciencias Sociales.

Universidad de Sonora, Hermosillo, Sonora, México (**external advisor**, *Principal Tutor: Dra. Blanca Friaño Sing*)

**Date of defense:** 30 de junio de 2016

**Undergraduate**

2019-presente

**Damariss Andrade Verduzco**

Mammie Phipps Clark Diversity Grant

Licenciatura en Psicología

Universidad de Sonora, Hermosillo, Sonora, México

**Amelia Ibarra**

Licenciatura en Psicología

Thesis: La salud mental y su efecto sobre las conductas saludables de los/as estudiantes universitarios: un estudio longitudinal

Date of defense: January 28<sup>th</sup> 2022

Universidad de Sonora, Hermosillo, Sonora, México

2019-2020

**Marcia Dolores Horta Guzmán**

Licenciatura en Psicología

Universidad de Sonora, Hermosillo, Sonora, México

**Thesis:** La Conducta Pro-ambiental en Relación al Uso de Unicel en Población Universitaria

**Date of defense:** December 9<sup>th</sup> 2020

2017-2019

**Mitzi Camacho:** Social Sciences Division undergraduate research grant

**Thesis:** El efecto de la Edad en la relación entre estrategias de Regulación Emocional y Síntomas psicopatológicos Relacionados

Undergraduate Program in Psychology

University of Sonora, Hermosillo, Sonora, México

**Date of defense:** March 13<sup>th</sup> 2020

**Zuleth Mendez:** Social Sciences Division undergraduate research grant

Undergraduate Program in Psychology

University of Sonora, Hermosillo, Sonora, México

2017-2019

**Angel Arvizu Tanori:** PRODEP undergraduate research grant

**Thesis:** Asociación entre la escrupulosidad y el estrés académico, el estrés percibido y el esfuerzo-recompensa en estudiantes universitarios

Undergraduate Program in Psychology

University of Sonora, Hermosillo, Sonora, México

**Date of defense:** October 26<sup>th</sup> 2019

2017-2018

**Flor Flores:** Social Sciences Division undergraduate research grant

2017-2018

**Yesenia Torres**

**Thesis:** Validación de la Escala de Estrés Parental de Berry y Jones en Padres de Niños en Etapa Escolar

Undergraduate Program in Psychology

University of Sonora, Hermosillo, Sonora, México

**Date of defense:** June 20<sup>th</sup> 2018

2017-2018

**Giselle Valenzuela**

**Thesis:** Validez del Cuestionario de Regulación Emocional de Gross Y John

Undergraduate Program in Psychology

University of Sonora, Hermosillo, Sonora, México

**Date of defense:** June 21<sup>st</sup> 2018

2017-2018

**Elizabeth Alcaide**

**Thesis:** Validación de la escala de Apoyo Social, Interpersonal Support Evaluation List (ISEL)

Undergraduate Program in Psychology

University of Sonora, Hermosillo, Sonora, México

**Date of defense:** June 20<sup>th</sup> 2018

2017-2018

**Beatriz Moreno**

Thesis: Validación de la Escala de Bienestar Psicológico de Carol Ryff en Padres de Niños en Etapa Escolar.

- Undergraduate Program in Psychology  
*University of Sonora, Hermosillo, Sonora, México*  
**Date of defense:** June 21<sup>st</sup> 2018
- 2017-2018 **Saira Rivas**  
**Thesis:** Efectos De Apoyo Social, Regulación Emocional, Resiliencia Y Estrés Percibido Sobre Bienestar Psicológico  
Undergraduate Program in Psychology  
*University of Sonora, Hermosillo, Sonora, México*  
**Date of defense:** June 20<sup>th</sup> 2018
- 2016 **Sid Dalal**  
*Washington University in St. Louis (co-mentors David Baranger and Dr. Ryan Bogdan)*
- 2016-2017 **Mackensie Jones:** Presented Poster at Undergraduate Research Conference at Washington University in St. Louis 2015; SURA fellowship  
*Washington University in St. Louis (co-mentors David Baranger and Dr. Ryan Bogdan)*
- Summer 2015 **Patrick England:** NIH Blueprint Endure Program Scholar, Visiting student from Carlton College  
*Washington University in St. Louis (co-mentored with David Baranger and Dr. Ryan Bogdan)*
- 2015-2017 **William Pan:** Presented Poster at Undergraduate Research Conference at Washington University in St. Louis 201; BioSURF fellowship; 2016 Midstates Research Symposium at University of Chicago  
*Washington University in St. Louis (co-mentored with David Baranger and Dr. Ryan Bogdan)*
- 2015-2016 **Kendall Sputo, Andy Bank, Corey Meehan, Michaela Voss, Emma Loebel**  
*Washington University in St. Louis (co-mentored with David Baranger and Dr. Ryan Bogdan)*  
**Dan Sheinbein:** Presented Poster at Undergraduate Research Conference at Washington University in St. Louis 2015; Summer Research Award WUSTL Research Office  
*Washington University in St. Louis (co-mentored with David Baranger and Dr. Ryan Bogdan)*
- 2013-present **Bianca Vannucci:** Undergraduate Research Travel Award (SRP 2014), Presented poster at Society for Research in Psychopathology 2014 and Undergraduate Research Conference at Washington University in St. Louis 2015  
*Washington University in St. Louis (co-mentored with Dr. Ryan Bogdan)*
- 2011-2012 **Iris Charcos:** Galileo Circle Scholar 2012, Department of Neuroscience Outstanding Senior 2013, Finalist in Outstanding Senior Award in College of Science 2013 (top 4), Presented poster at Graduate and Professional Student Council (GPSC) Student Showcase 2012  
*University of Arizona (co-mentored with Dr. W Jake Jacobs)*  
**Jacquelyn Thomas, Fernanda Gonzalez, and Megan Delgado:** Presented poster at GPSC Student Showcase 2012  
*University of Arizona (co-mentored with Dr. W Jake Jacobs)*
- Anderson Chen**  
*University of Arizona (co-mentored with Dr. W Jake Jacobs)*  
**Colleen Miller:** Presented poster at GPSC Student Showcase 2012, Honors Thesis: Effects of Psychosocial Stress on Moral Judgment and Executive Functioning  
*University of Arizona (co-mentored with Dr. W Jake Jacobs and Dr. Jerel Slaughter)*  
**Ryan LaHood:** Honors College Dean's Fund for Excellence Grant 2011 (\$1000), Presented poster at 2011 University of Arizona Honor's College Spirit of Inquiry Expo  
*University of Arizona (co-mentored with Dr. Jean-Marc Fellous and Dr. Edward French)*
- 2010-2012 **Kimberly Edelman:** Presented poster at GPSC Student Showcase 2010-2011, Honors College Dean's Fund for Excellence Grant 2010 (\$900), Honor's College Spirit of Inquiry Expo 2010, Undergraduate Biology Research Program Scholar (UBURP) 2011-2012, Presented poster at 23<sup>rd</sup> URB Conference poster 2011 and Society for Neuroscience Poster 2011  
*University of Arizona (co-mentored with Dr. Jean-Marc Fellous and Dr. Edward French)*
- Spring-Fall 2010 **Stephen Brookshire:** Presented poster at GPSC Student Showcase 2010  
*University of Arizona (co-mentored with Dr. Jean-Marc Fellous Dr. Edward French)*
- Spring-Fall 2009 **Julia Cremer:** Presented poster at Physiology Poster Showcase 2009 and in Society

- for Neuroscience Meeting 2009  
*University of Arizona (co-mentored with Dr. Jean-Marc Fellous and Dr. Edward French)*
- Summer 2008  
**Chu Qin:** Presented poster at Biomedical Research Abroad: Vistas Open! Scholar (BRAVO), BRAVO Conference  
*University of Arizona (co-mentored with Dr. Jean-Marc Fellous and Dr. Edward French)*
- High School**  
Summer 2015  
**Charles Fulks:** Summer Focus Program Scholar, Presented at Summer Focus Final Presentation: Effects of Stress on Reward Learning: Implications for Depression  
*Washington University in St. Louis (co-mentored with Caitlin Carey and Dr. Ryan Bogdan)*

## TEACHING EXPERIENCE

*University of Sonora*

**Spring 2022**

Rating: 9.62

**Undergraduate Level Courses**

Psychobiology

**Graduate Level Courses**

Positive Environments

Quantitative Methods II

**Fall 2021**

Evaluación

Docente: 9.67

**Undergraduate Level Courses**

Estudios Especiales: Psicobiología

**Graduate Level Courses**

Seminario de Tesis

Diseño de Investigaciones Experimentales

**Spring 2021**

Rating: 9.58

**Undergraduate Level Courses**

Estudios Especiales: Psicobiología

**Graduate Level Courses**

Seminario de Tesis

Diseño de Investigaciones Experimentales

**Fall 2020**

Rating: 9.74

**Undergraduate Level Courses**

Psychobiology

**Graduate Level Courses**

Positive Environments

Methodology in Social Sciences Research

**Spring 2020**

Rating: 9.41

**Undergraduate Level Courses**

Methods for Psychological Diagnosis

**Graduate Level Courses**

Quantitative Methods II

**Fall 2019**

Rating: 9.85

**Undergraduate Level Courses**

Behavioral Epidemiology II

**Graduate Level Courses**

Experimental Design

**Spring 2019**

Rating: 9.69

**Undergraduate Level Courses**

Psychological Theory III (Personality)

**Graduate Level Courses**

Quantitative Methods I (co-professor: Dr. Víctor Corral)

Positive Environments

**Fall 2018**

Rating: 9.44

**Graduate Level Courses**

Theories of Psychological Wellbeing

Metodología de la Investigación Social (co-profesor: Dr. Víctor Corral)

Evaluación de Proyectos (co-profesor: Dr. Martha Frías)

**Spring 2018**

Rating: 9.52

**Undergraduate Level Courses**

Quantitative Representation of Psychological Data

Frontiers in Neuroscience

**Graduate Level Courses**

Quantitative Methods I

Gender and Diversity (co-professor: Dr. Martha Frías)

**Fall 2017**

**Undergraduate Level Courses**

- Rating: 9.62 Behavioral Epidemiology II  
Methods in Interventions II  
**Graduate Level Courses**  
Experimental Design
- Spring 2017**  
Rating: 9.71 **Undergraduate Level Courses**  
Psychological Theory III  
(Personality)  
**Graduate Level Courses**  
Quantitative Methods I
- Fall 2016**  
Rating: 9.02 **Undergraduate Level Courses**  
Construction of Instruments for Psychological Diagnosis  
Behavioral Epidemiology II  
**Graduate Level Courses**  
Research Methods
- University of Arizona*  
**Fall 2011** **Teaching Assistant**  
Course: Frontiers in Neuroscience (NCSC107)  
Invited lecture: Reward and Addiction and Reward and Resilience  
*Professors:* Dr. Lynne Oland, Dr. Carole Beal
- Spring 2011** **Teaching Assistant**  
Course: Fundamentals of Neuroscience and Cognitive Sciences (NCSC200)  
Invited lecture: The Reward System  
*Professors:* Dr. Lynn Nadel, Dr. Lee Ryan, Dr. Richard Levine
- Fall 2010** **Teaching Assistant**  
Course: Personal Morality (INDV102)  
Lead weekly review sessions  
*Professor:* Dr. Mark Timmons
- Fall 2009** **Teaching Assistant**  
Biology of Sensation (NRSC282)  
Invited Lecture: Neuroscience of visual illusions  
*Professors:* Dr. Lynne Oland, Dr. Alan Nighhorn and Dr. Theodore J. Glattke
- Fall 2007** **Teaching Assistant**  
Course: Neurobiology (MCB 407)  
Lead weekly review sessions  
*Professor:* Dr. Alan Nighhorn
- ITESO*  
**Fall 2005** **Teaching Assistant**  
Introduction to Behaviorism  
*Professor:* Dr. José E. Burgos-Triano
- Invited Guest Lectures*  
Fall 2015 **Ethics in Science: Peer Review Scam**  
Psychiatry Grand Rounds  
Coordinators: Dr. Tamara Hershey and Dr. Stephen Mennerick  
*Washington University in St. Louis*
- Spring 2014 **Applications of Neuroscience Research in Psychology** (Aplicaciones de las Neurociencias en Psicología)  
Introduction to Psychology (Introducción a la Psicología)  
Instructor: Teodoro Hernandez  
*Universidad Kino*
- Summer 2014 **Ethics in Human and Animal Experimentation**  
Ethics RCR course  
Instructors: Dr. Pamela A. Madden and Dr. Andrew C. Heath  
*Washington University in St. Louis*

## WORKSHOPS OR SHORT COURSES

- December 2019* **Heart Rate Measures as Psychological Biomarkers**

XX Escuela Nacional De Biofísica Molecular  
Universidad de Sonora  
Summer 2015 **Non-parametric Statistics**  
Statistics for Social Sciences  
Universidad de Sonora

## ACADEMIC SERVICES

### Ad Hoc Paper Reviews

Clinical Psychological Science, Psychological Medicine, Biological Psychiatry, Aggressive Behavior, Human Brain Mapping, Journal of Affective Disorders, Journal of Neuroscience, Emotion, SCAN, PsychoNeuroendocrinology, Journal of Psychopathology and Behavioral Assessment, PsiCumex

### Academic Committees

2022 Admissions Committee for the Social Sciences Program  
2021 Committee for Revision of the Graduate Psychology Curriculum  
2019-present Committee for the Revision of Undergraduate Psychology Curriculum  
2019-2021 Psychology Bachelors Reaccreditation Committee  
2018-present Psi Chi Academic Advisor  
2016-current Admissions Committee for the Psychology Graduate Program  
2018 Evaluation Committee for Prospective Psychology Professor  
2014-2016 Washington University in St. Louis Psychological and Brain Sciences  
Department Diversity Committee  
Seeks to promote opportunities for underrepresented populations, to foster an environment of inclusiveness and enhance awareness  
2011 Graduate Interdisciplinary Program in Neuroscience  
Student Representative in Admissions Committee  
2008-2012 Society for Neuroscience Tucson Chapter  
Outreach Initiative Organizer

### Academic Society Membership

Society for Research in Adolescence, Society for Neuroscience, Psychological Science Accelerator, PsiChi, SIPS

### International Academic Services

2019-current **Translation and review of psychological instruments**  
2012- current **Review, translation, and editing of academic manuscripts**

### Outreach

2017-present **Brain Awareness Week**  
Universidad de Sonora  
2015-2016 **Young Scientist Program (YSP)**  
Constructed curriculum for Psychology Teaching team and organized teams for outreach within the St. Louis area  
*Washington University in St. Louis, St. Louis, MO*  
Summer 2015 **Summer Focus Research Mentoring**  
Mentored a high school student in a summer research project  
YSP: Summer Focus Program  
*Washington University in St. Louis, St. Louis, MO*  
2014-2015 **Next Up**  
ACT preparation and Career Panel Discussion  
YSP: Summer Focus Program  
*Washington University in St. Louis, St. Louis, MO*  
2013-current **YSP Career Panel**  
Presented STEM career options to Middle and High school students  
*Washington University in St. Louis, St. Louis, MO*  
October 11<sup>th</sup> 2013 **Decoding the Human Brain**  
Barnes Jewish Hospital and Young Scientist Program



2013-current	Chase Park Plaza, Clayton, MO <b>Neuroscience Teaching with Young Scientist Program</b> Local St. Louis schools, Saint Louis, MO
2010-2012	<b>Neuroscience Teaching</b> Local K-12 schools (e.g. Roskrouge bilingual school), Tucson,
September 24 <sup>th</sup> 2011	<b>Brain Zoo Booth in Arizona Insect Fair</b> University of Arizona Mall, Tucson, AZ
2010-2011	<b>Neuroscience Teaching with Young Scientist Program</b> La Cholla High School, Tucson, AZ
2008-2011	<b>Spooktacular Event</b> Halloween themed Neuroscience teaching <i>Flandrau Center, University of Arizona, Tucson, AZ</i>
2008-2011	<b>Mexico– University of Arizona Summer Research Program Panel</b> <i>University of Arizona, Tucson AZ</i>
2008-2012	<b>Brain Awareness Week Outreach Activities</b> <i>University of Arizona, Tucson, AZ</i>

### ***Language***

English and Spanish: Native  
French and portuguese: Basic

### ***Technical abilities***

Behavioral, self-report, and physiological data acquisition, immunohistochemical analysis, brain cutting in cryostat, electrophysiology (human and rat), surgery in rats, radioimmunoassay in saliva and blood, stress models (human and rat), perfusion and brain extraction.

### **Software:**

*Statistical software:* SPSS, MPlus, R, EQS, RevMan, JASP

*Data acquisition:* PsychoPy, Eprime, Qualtrics

*Illustration and editing:* Adobe Illustrator, Corel Draw, Photoshop

*Genetics:* Phase, Quanto, Plink, SOLAR-Eclipse

*Neuroscience:* SPM in Matlab, Brain Analyser, MRICRON, Netstation