

CURRICULUM VITAE

Constanza Inez C. de Dios

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PRESENT TITLE

2019-Present **Postdoctoral Research Fellow**
Center for Neurobehavioral Research on Addiction
Louis A. Faillace, MD, Department of Psychiatry and Behavioral Sciences
UTHealth McGovern Medical School
University of Texas Health Science Center
Houston, TX

EDUCATION

2016-2019 Ph.D. Psychology
University of South Florida, Tampa, FL
Concentration: Cognition, Neuroscience, and Social Psychology

2013-2016 M.A. Psychology
University of South Florida, Tampa, FL
Concentration: Cognition, Neuroscience, and Social Psychology

2008-2012 B.S. Psychology
Saint Mary's College of California, Moraga, CA
Concentration: Experimental/Neuroscience Psychology
Summa Cum Laude

PUBLICATIONS

Peer-Reviewed Original Journal Articles

In Press

MyBibliography: <https://www.ncbi.nlm.nih.gov/myncbi/constanza%20inez.de%20dios.1/bibliography/public/>
ORCID: <https://orcid.org/0000-0003-0230-5222>

Leung, E.*, Lau, E. W.*, Liang A.*, **de Dios, C.**, Suchting, R., Ostlundh, L., Masdeu, J. C., Fujita, M., Sanches, M., Soares, J. C., & Selvaraj, S. (2022). Alterations in brain synaptic proteins and mRNAs in mood disorders: A systematic review and meta-analysis of postmortem brain studies. *Molecular Psychiatry*. DOI: 10.1038/s41380-021-01410-9.

- de Dios, C.**, Fernandes, B. S., Whalen, K., Bandewar, S., Suchting, R., Weaver, M., & Selvaraj, S. (2021). Prescription fill patterns for benzodiazepines and opioid drugs during the COVID-19 pandemic in the United States. *Drug and Alcohol Dependence*. PMID: 34808468. PMCID: PMC8595244. DOI: 10.1016/j.drugalcdep.2021.109176.
- Suchting, R., Green, C.E., **de Dios, C.**, Vincent, J., Moeller, F.G., Lane, S.D., & Schmitz, J.M. (2021). Citalopram for treatment of cocaine use disorder: A Bayesian drop-the-loser randomized clinical trial. *Drug and Alcohol Dependence*. PMID: 34600245. PMCID: PMC8595787. DOI: 10.1016/j.drugalcdep.2021.109054
- Yoon, J., Suchting, R., **de Dios, C.**, Vincent, J., McKay, S., Lane, S., & Schmitz, J. (2021). Decreased cocaine demand following contingency management treatment. *Drug and Alcohol Dependence*. PMID: 34198136. DOI: 10.1016/j.drugalcdep.2021.108883
- Yammine, L., Green, C. E., Kosten, T. R., **de Dios, C.**, Suchting, R., Lane, S. D., Verrico, C. D., & Schmitz, J.M. (2021). Exenatide adjunct to nicotine patch facilitates smoking cessation and may reduce post-cessation weight gain: a pilot randomized controlled trial. *Nicotine and Tobacco Research*, 23(10), 1682-1690. PMID: 33831213. PMCID: PMC8517504. DOI: 10.1093/ntr/ntab066
- Nakano, H., Rosario, M-A. M., & **de Dios, C.** (2021). Experience affects EEG event-related synchronization in dancers and nondancers while listening to preferred music. *Frontiers in Psychology*. PMID: 33912101. PMCID: 8071982. DOI: 10.3389/fpsyg.2021.611355
- de Dios, C.**, Suchting, R., Webber, H. E., Yoon, J. H., Yammine, L., Vincent, J., Weaver, M. F., Stotts, A. L., Schmitz, J. M., & Lane, S. D. (2021). Cocaine-specific speed-accuracy trade-off during anti-saccade testing differentiates patients with cocaine use disorder who achieve initial abstinence during treatment. *Journal of Psychopharmacology*, 35(5), 611-614. PMID: 33586502. PMCID: 8480541. DOI: 10.1177/0269881121991566
- Webber, H. E., **de Dios, C.**, Wardle M. C, Suchting R., Green C. E., Schmitz, J. M., Lane, S. D., & Versace, F. (2021). Electrophysiological responses to emotional and cocaine cues reveal individual neuroaffective profiles in cocaine users. *Experimental and Clinical Psychopharmacology*, XX, xx-xx. PMID: 33630644. PMCID: 8406778. DOI: 10.1037/pha0000450.
- Suchting, R., Tirumalajaru, V., Gareeb, R. M., Bockmann, T., **de Dios, C.**, Aickareth, J., Pinjari, O., Soares, J. C., Cowen P. J., & Selvaraj, S. (2021). Revisiting monoamine oxidase inhibitors for the treatment of depressive disorders: A systematic review and network meta-analysis. *Journal of Affective Disorders*, 282, 1153-1160. PMID: 33601690. DOI: 10.1016/j.jad.2021.01.021
- Yoon, J. H., **de Dios, C.**, Suchting R., Vincent J. N., McKay S. A., Lane S. D., & Schmitz J. M. (2020). Initial development of a brief assessment of cocaine demand. *Behavioral Pharmacology*, 32(4), 351-355. PMID: 33394690. PMCID: 8119298. DOI:10.1097/fbp.0000000000000617
- Hunt, C., Macedo, T., Suchting, R., **de Dios, C.**, Cuellar Leal, V. A., Soares, J. C., Dantzer, R., & Teixeira, A. (2020). Effect of immune activation on the kynurenine pathway and depression

symptoms – a systematic review and meta-analysis. *Neuroscience and Biobehavioral Reviews*, 118, 514-523. PMID: 32853625. PMCID: 8087452. DOI: 10.1016/j.neubiorev.2020.08.010

Soder, H. E., **de Dios, C.**, & Potts, G. F. (2016). The role of the neural reward system in attention selection. *NeuroReport*, 27(10), 787-790. PMID: 27232519. DOI: 10.1097/wnr.0000000000000617

Under Review/Submitted

Selvaraj, S., Aggarwal, S., de Dios, C., Sharrief, A.Z., Beauchamp, J., & Savitz, S.I. (Under review). Predictors of early post-stroke depression and suicidal ideation among acute stroke survivors. *Psychiatry and Clinical Neurosciences*.

Webber, H.E., **de Dios, C.**, White, K., & Potts, G.F. (Under review). Effects of valence, prediction, and delivery of emotional images on the feedback-related negativity/reward positivity. *Psychophysiology*.

Burnett, J., Suchting, R., **de Dios, C.**, & Cannell, M. Exploring the importance of elder mistreatment poly-victimization definitions: A secondary data analysis of over 5,000 validated cases. *Submitted*, 2021.

Book Chapters

Soder HE, Hoffman JL, **de Dios C**, Webber TA (2021). Best practices for studying addiction. In D. F. Ragin & J. P. Keenan (Eds.), *Handbook of research methods in health psychology* (73-86). New York NY & Abingdon, Oxon: Routledge.

PRESENTATIONS

Conference Presentations

Presenter name/s underlined if author name in boldface did not present

Hong, J.H., **de Dios, C.**, Balderas, J.C., Tonkin, S.S., Suchting, R., Walss-Bass, C., & Meyer, T.D. (2022, June). *Types of traumatic Experiences in drug overdose-related deaths: an exploratory latent class analysis*. Poster to be presented at the College on Problems of Drug Dependence 84th Annual Meeting, Minneapolis, MN, USA.

Hong, J.H., **de Dios, C.**, Gilmore-Thomas, A., Lathan, E., Hamilton, J.E., & Heads, A.M. (2022, June). *The Association between Potentially-Traumatic Events and Cocaine, Cannabis, and Alcohol Use Differs by Race*. Poster to be presented at the College on Problems of Drug Dependence 84th Annual Meeting, Minneapolis, MN, USA.

Webber, H.E., Yoon, J.H., **de Dios, C.**, Suchting, R., Green, C.E., Lane, S.D., Vincent, J., Dang, V., Wardle, M.C., Kypriotakis, G., Versace, F., & Schmitz, J.M. (2022, June). *Brain reactivity bias toward drug versus pleasant Cues is associated with drug demand in individuals with cocaine use disorder*. Poster to be presented at the College on Problems of Drug Dependence 84th Annual Meeting, Minneapolis, MN, USA.

de Dios, C., Schmitz, J.M., Lane, S.D., Suchting, R., Green, C.E., Kosten, T.R., Leidy, H.J., Verrico, C.D., & Yammine, L. (2022, March). A pilot trial of exenatide once-weekly adjunct to nicotine patch for smoking cessation and mitigation of post-cessation weight gain. *Promising New Smoking Cessation Pharmacotherapies*. Podium (Symposium) Presentation at the Society for Nicotine and Tobacco Research Annual Meeting, Baltimore, MD, USA.

Hong, J.H., **de Dios, C.**, Gilmore-Thomas, A., Lathan-Powell E.C., Hamilton, J.E., & Heads, A.M. (2021, July). *The association between potentially-traumatic events and cocaine, cannabis, and alcohol use differs by race*. Poster presentation at the 11th Annual Postdoctoral Science Symposium, Houston, TX.

Webber, H. E., **de Dios, C.**, Kessler, D. A., Lane, S. D., Schmitz, J. M., & Suchting, R. (2021, October). *Error and reward processing in substance use disorders: evidence from a meta-analysis on event-related potentials*. Poster presented at the 61st Meeting of the Society for Psychophysiological Research, Virtual.

Schmitz, J., Green, C., Suchting, R., **de Dios C.**, Vincent, J., Lane, S., & Moeller, F. G. (2021, June). Citalopram for treatment of cocaine use disorder: A Bayesian drop-the-loser randomized clinical trial. Talk presented at College on Problems of Drug Dependence 83rd Annual Meeting, Virtual.

Cohen, A., Jeong, J., Hinojosa, E., Schmitz, J., Spellman, M., Lane, S.D., Stotts, A., Walss-Bass, C., **de Dios, C.**, Savitz, S., & Sharrief, A. (2021, June). *Assessing illicit drug use in the follow-up care of stroke survivors*. Poster presented at College on Problems of Drug Dependence 83rd Annual Meeting, Virtual.

de Dios, C., Suchting, R., Soder, H., Yoon, J.H., Kessler, D., Kapoor, S., Stotts, A. L., Heads, A. M., Harvin, J. A., Green, C. E., Lane, S. D., Schmitz, J. M. (2020). *Identifying predictors of opioid misuse in adult trauma patients using a Bayesian data science approach*. Oral presentation given at University of Texas MD Anderson Cancer Center PostDoctoral Association, "10th Annual Postdoctoral Science Symposium" (first place, Applied Science). DigitalCommons@TMC, MD Anderson Cancer Center Postdoctoral Association, MD Anderson Cancer Center Postdoctoral Association Annual Postdoctoral Science Symposium Abstracts. Paper 3. https://digitalcommons.library.tmc.edu/mda_postdoc_symabs/3

Yammine, L., Green, C., Kosten, T. R., Suchting, R., **de Dios, C.**, Verrico, D., & Schmitz J. (2020, June). *Pilot randomized controlled trial of exenatide combined with nicotine patch to promote smoking cessation and prevent weight gain*. Talk presented at College on Problems of Drug Dependence 82nd Annual Meeting, Virtual.

Soder H. E., Kessler, D. A., McKay, S. A., Wardle, M. C., Suchting, R., **de Dios, C.**, Green, C. E., Lane, S. D., Schmitz, J. M., & Versace, F. (2020, October). *Electrophysiological individual differences to cocaine-related and other emotional stimuli in individuals with cocaine addiction*. Poster presented at the 60th Meeting of the Society for Psychophysiological Research, Virtual.

- de Dios, C.,** Ford, S., & Potts, G. F. (2019, September). *Comparing reward and instructional relevance in target detection*. Poster presented at the 59th Meeting of the Society for Psychophysiological Research in Washington DC, USA.
- Soder, H. E., **de Dios, C.,** Akula, V. K., McDonald, R. V., & Potts, G. F. (2019, September). *Feedback-related negativity reflects unexpected presence or absence of emotional images*. Poster presented at the 59th Meeting of the Society for Psychophysiological Research in Washington DC, USA.
- de Dios C.** & Potts, G. F. (2018, October). *Learning to associate reward values with cues*. Poster presented at the 58th Meeting of the Society for Psychophysiological Research in Quebec City, Quebec, Canada.
- de Dios, C.** & Potts, G. F. (2017, October). *Reward's impact on attention: Cue-like or target-like?* Poster presented at the 57th Meeting of the Society for Psychophysiological Research in Vienna, Austria.
- Dell, J., **de Dios C,** Horner, C., Martinez, R., & O'Brien, J. (2017, October). *Value learning and early visual processing*. Poster presented at the 57th Meeting of the Society for Psychophysiological Research in Vienna, Austria.
- de Dios, C.,** & Potts, G. F. (2016, September). *Does incentive salience direct early attention? An ERP investigation*. Poster presented at the 56th Meeting of the Society for Psychophysiological Research in Minneapolis, MN, USA.
- de Dios, C.,** Horner, C., Martinez, R., & O'Brien, J. (2016). Can value learning modulate early visual processing? [Abstract] *Journal of Vision*, 16(89), DOI:10.1167/16.12.89.
- de Dios, C.** & Potts, G. F. (2016, April). *Incentive salience produces early attention allocation: An ERP investigation*. Poster presented at the 23rd Cognitive Neuroscience Society Meeting in New York, NY, USA.
- de Dios, C.** & Potts, G. (2014, September). *The effect of error monitoring systems on spatial attention*. Poster presented at the 54th Meeting of the Society for Psychophysiological Research in Atlanta, GA, USA.
- Rosario, M.-A., Nakano, H., & **de Dios, C.** (2014, April). *Identifying an EEG spectral response to preferred music*. Poster presented at the 21st Cognitive Neuroscience Society Meeting in Boston, MA, USA.
- de Dios, C,** Wan, N. J. A., Rosario, M.-A. M., & Nakano, H. (2012, March). *Music processing in experienced dancers and non-dancers: An EEG spectral analysis*. Poster presented at the 19th Cognitive Neuroscience Society Meeting in Chicago, IL, USA.
- de Dios, C.,** Wan, N. J. A., Rosario, M.-A. M., & Nakano, H. (2011, April). *Music processing in dancers and non-dancers: A preliminary EEG frequency analysis*. Poster presented at the 41st Western Psychology Conference for Undergraduate Research at Saint Mary's College of California, USA.

GRANT SUPPORT

Current

XXXXXXXXX 8/1/2020-7/31/2021 XX calendar
UTHealth \$XXXXXXX
Vadadustat for the Prevention and Treatment of Acute Respiratory Distress Syndrome (ARDS) in Patients with Coronavirus Disease 2019 (COVID-19)
PI: Bentley Bobrow, PhD

P30AI161943 9/9/2021-X/X/2022 XX calendar
NIH Texas Developmental Center for AIDS Research \$49,868
Removing Barriers to Effective HIV Prevention Strategies for Individuals with Problematic Substance Use Disorders
PI: Angela Heads, PhD
Co-PIs: Robert Suchting, PhD, Adrienne Gilmore-Thomas, PhD, Judy Hong, PhD

Pending

AWARDS

- 2020 First Place, Oral Competition, Applied Science Division, 10th Annual Postdoctoral Science Symposium hosted by University of Texas MD Anderson Cancer Center Postdoctoral Association
(Title: *Identifying predictors of opioid misuse in adult trauma patients using a Bayesian data science approach.*)
- 2014-2018 Conference Presentation Grant, University of South Florida
(Grant to fund travel and presentation expenses in CNS and SPR conferences)
- 2012 Undergraduate Student Research and Professional Development Fund, Saint Mary's College of California
(Grant to support completion and presentation of EEG study on music processing)
- 2012 Frederick Whelan Psychology Department Award, Saint Mary's College of California
(Given to a graduating senior with an outstanding scholastic record as a psychology major)
- 2011 Summer Research Award
School of Science Summer Research Program, Saint Mary's College of California
(Stipend and award to conduct own research under mentor's supervision)

TEACHING

- 2018-2019 **Cognitive Psychology** (Instructor of Record), USF
- 2016-2017 **Physiological Psychology** (Instructor of Record), USF

- 2013-2018 **Research Methods in Psychology** (Lab Instructor), USF
Instructors: Marina Bornovalova, Ph.D., William Sacco, Ph.D., Michael Brannick, Ph.D.
- 2014-2016 **Introduction to Psychological Science** (Lab Instructor), USF
Instructors: Jane Noll, Ph.D., Jennifer Bosson, Ph.D., Alaina Talboy, M.A. (Online)
- 2015, 2018 **Cognitive Psychology** (Teaching Assistant), USF
Instructor: Kenneth Malmberg, Ph.D. (Online)

MENTORING

- 2021-current Danielle Kessler, UTH
[Reward ERP meta-analysis]
- 2019-current Kaitlin White, USF
Feedback-related negativity responds to presence or absence of motivationally salient images regardless of valence
- 2018-2019 Vamshi Akula, Bachelors Thesis, USF
Medial frontal cortex responses to positive and negative emotion prediction
- 2018 Joelle Castle & Mark Zimmer, Psych Expo 2018, USF
The Effects of Reward on Attention: An Investigation of Reaction Time and Accuracy
- 2018-2019 Steven Ford, Bachelors Honors Thesis, USF
Independent Effects of Reward on Attention
- 2015-2016 Carlene Horner, Masters Thesis, USF
The Effect of Value Learning on Attentional Resources During Top-Down Processing: An ERP Study

ANALYTICS SKILLS

R
Python, MATLAB, SPSS
EEGLAB, Net Station, E-Prime

PROFESSIONAL MEMBERSHIPS

Cognitive Neuroscience Society, Society for Psychophysiological Research, Vision Sciences Society, Psi Chi Honor Society, American Psychological Association, Alpha Mu Gamma Foreign Language Honor Society

SERVICE

- 2021- **Ad-hoc Reviewer**

JAMA Network Open, Nicotine and Tobacco Research, Drug and Alcohol Dependence

- 2017-2018 **Graduate Representative to the Executive Committee**
Department of Psychology, USF
- 2015-2017 **Secretary and United Faculty of Florida Senator (Elected)**
USF Graduate Assistants United, United Faculty of Florida
- 2014-2015 **Brown Bag Committee Co-Chair**
Department of Psychology, USF