

## Curriculum Vitae

### Maria Magdalena Ortiz-Juza

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### Education

- 2020-Present: Ph.D. in Neuroscience  
University of North Carolina at Chapel Hill, NC
- 2018: B.S. in Biology concentration in Physiology  
San Francisco State University, CA

### Current & Past Positions

- 2020- Present: PhD Neuroscience Student, University of North Carolina Chapel Hill, NC  
Thesis Advisors: Jose Rodriguez-Romaguera, Ph.D & Nicolas Pégard, Ph.D
- 2018- 2020: Post-baccalaureate Trainee, National Institute on Drug Abuse, MD  
Mentor: Khaled Moussawi, M.D., Ph.D.
- 2016- 2018: Undergraduate Research Trainee San Francisco State University, CA  
Mentor: Rori Rohlf, Ph.D.
- 2016- 2017: Research Training at:
- 2017: Summer Research Program, National Cancer Institute, MD (Mentor: Maria Hernandez, Ph.D. & Xin Wei Wang, Ph.D.)
  - 2016: Summer Research Program, San Francisco State University, CA (Mentor: Jose de la Torre, Ph.D.)

### Honors & Awards

- 2021: Trainee Professional Development Award, Sponsored by SFN
- 2021: Graduate and Professional Student Government Travel Award
- 2021: Best Poster Award, The Department of Applied Physical Sciences at UNC
- 2018: Conference Travel Award, Sponsored by the Office of Intramural Training and Education at the National Institute of Health (NIH)
- 2018: Graduated Cum Laude at SFSU
- 2013-2018: Dean's List at SFSU
- 2013-2017: Santa Barbara Undergraduate Scholarship
- 2017: Society for the Study of Evolution Travel Award, Sponsored by the American Society of Naturalists and the Society of Systematic Biologists
- 2016: Society for Advancing Chicanos/Hispanics and Native Americans in STEM (SACNAS) Conference Travel Award, Sponsored by SACNAS organization

### Scientific Publications

3. **Ortiz-Juza MM**, Alghorazi RA, and Rodriguez-Romaguera J (2021) "Cell type diversity in the bed nucleus of the stria terminalis to regulate motivated behaviors" *Behav Brain Res*, 411, 113401
2. Gantz S, **Ortiz MM**, Belilos A, and Moussawi K (2021) "Excitation of medium spiny neurons by 'inhibitory' ultrapotent chemogenetics via shifts in chloride reversal potential" *eLife* 10, e64241
1. Moussawi K<sup>1</sup>, **Ortiz MM**<sup>1</sup>, Gantz SC, Tunstall B, Marchette R, Bonci A, Koob G, and Vendruscolo L (2020) "Fentanyl vapor self-administration in mice to study opioid addiction" <sup>1</sup> co-first authors *Sci. Adv.* 6, eabc0413

## Abstracts from Posters at Scientific Conferences & Symposiums

### \* *Trainees under my supervision*

12. Ung RL, Alghorazi RA, **Ortiz-Juza MM**, \*Garcia-Reyes RA, \*Velazquez-Hernandez G, Stuber GD, Zhou P, Kato HK and Rodriguez-Romaguera J “Prepronociceptin-expressing neurons in the extended amygdala track relative location of aversive odors” 60th Annual Meeting of the American College of Neuropsychopharmacology (ACNP). San Juan, PR. December 5-8, 2021.
11. **Ortiz-Juza MM**, Ung RL, Alghorazi RA, \*Ring A, \*Velazquez-Hernandez G and Rodriguez-Romaguera J “Pnoc neurons in the extended amygdala encode and are necessary to explore anxiogenic environments” 50th Annual SFN Meeting. Chicago, IL. November 8-11, 2021.
10. **Ortiz-Juza MM** Ung RL, Alghorazi RA, \*Ayden Ring, \*Garcia-Reyes RA, \*Velazquez-Hernandez G, Stuber GD, Zhou P, Kato HK and Rodriguez-Romaguera J “Pnoc-expressing neurons in the BNST encode location and behavioral responses to aversive odors” Psychiatry Day at University of North Carolina at Chapel Hill, NC, November 10, 2021
9. Curtis VR, **Ortiz-Juza MM**, Rodriguez-Romaguera J and Pégard NC. “Real-time arousal state monitoring with camera-free diffuse infrared pupillometry” The Applied Physical Sciences Research Symposium. Chapel Hill, NC, USA. Septemeber 30, 2021.
8. \*Garcia-Reyes RA, Alghorazi RA, **Ortiz MM**, and Rodriguez-Romaguera J “Developing a behavioral task to study how social stress modulates social motivation” The Annual Biomedical Research Conference for Minority Students (ABRCMS). Virtual. November 9-13, 2020.
7. **Ortiz MM**, Moussawi K, Tunstall B, Marchette R, Bonci A, Koob G, and Vendruscolo L “Fentanyl vapor self-administration in mice: A novel non-invasive preclinical addiction model” 48th Annual Society for Neuroscience (SFN) Meeting. Chicago, IL. November. October 19-23, 2019.
6. **Ortiz MM**, Moussawi K, Tunstall B, Marchette R, Bonci A, Koob G, and Vendruscolo L “Fentanyl vapor self-administration in mice: A novel non-invasive preclinical addiction model” Opioid Symposium at the National Institute on Drug Abuse. Baltimore, MD. May 15th, 2019.
5. **Ortiz MM**, Moussawi K, Tunstall B, Marchette R, Bonci A, Koob G, Vendruscolo L “Fentanyl vapor self-administration in mice: A novel non-invasive preclinical addiction model” National Institutes of Health Post-bac Poster Day. Bethesda, MD. May 2nd, 2019.
4. **Ortiz MM**, Brusco C, Moussawi K, Bonci A “Activation of the Mouse Olfactory circuit using Transcranial Magnetic Stimulation” 45<sup>th</sup> SACNAS Meeting. San Antonio, TX. October 11-13, 2018.
3. **Ortiz MM**, Hernandez M, Cherry Li C, Livak F, Wang X “Detection and Enumeration of Circulating Tumor Cells in Hepatocellular Carcinoma using Flow cytometry” National Institutes of Health (NIH) Summer Student Poster Day. Bethesda, MD. August 10th, 2017.
2. **Ortiz MM**, Rohlfs R “Quantifying the role lipid concentrations play in primate brain adaptation” 71st Annual Society for the Study of Evolution (Evolution) Conference. Portland, OR. June 23-27, 2017.
1. **Ortiz MM**, Rohlfs R “Quantifying the role lipid concentrations play in primate brain adaptation” 44th Annual Society for Advancing Chicanos/Hispanics and Native Americans in STEM (SACNAS) Meeting. Salt Lake City, UT. October 19-21, 2017.

## Funding/Grants

- 2020-2023: National Science Foundation, DGE-1650116, Graduate Research Fellowship Award, My Role: **Graduate Research Fellow, Amount: \$138,000**
- 2018-2020: NIH, Scientific Director's Fellowship for Diversity in Research, **Amount: \$78,000**
- 2016-2018 NIH, R25-GM059298, (PI: Frank Bayliss) Minority Biomedical Research Support Program (MBRS-RISE), My Role: **Undergraduate Research Fellow**

## Professional Organizations

- 2018-Present: Member of the Society for Neuroscience (SFN)
- 2016- Present: Member of the Society for Advancing Chicanos/Hispanics and Native Americans in STEM

## Career Development Activities

- 2021- Present: Professional Development and Outreach Chair, Society for Advancing Chicanos/Hispanics and Native Americans in STEM
- 2021- Present: Pre-Grad Mentor, Project SHORT
- 2021: Pre- College Mentor, Women in Science Promoting Inclusion in Research (WinSPIRE), University of North Carolina at Chapel Hill, NC
- 2021: NC DNA Day Ambassador, Northwest Cabarrus High School, NC
- 2021-Present: Neuroscience Student Council, University of North Carolina at Chapel Hill, NC
- 2021-Present: Peer mentor, University of North Carolina at Chapel Hill, NC
- 2021: North Carolina Science Festival, NC
- 2018-2020: STEM Achievement in Baltimore Elementary Schools (SABES), Margaret Brent Elementary School, Baltimore, MD
- 2017-2018: Science Partners in K-12 Education (SPIKE), Guadalupe Elementary School, CA
- 2018-2020: Post-bac Advisory Board, National Institute on Drug Abuse
- 2018-2020: NIH-SACNAS Satellite Representative
- 2018-2019: Society for Neuroscience Brain Awareness Week, Rural Schools in Baltimore Point Schools, Baltimore, MD

## References

**Jose Rodriguez-Romaguera, Ph.D.** (Thesis Advisor)  
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**Khaled Moussawi, M.D., Ph.D.** (Post-bac Mentor)  
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