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EDUCATION

2022 PhD, Neurosciences

Washington University in St. Louis

Dissertation: Characterizing complex affective processing across age and

in relation to social anxiety symptoms

Mentor: Deanna Barch, PhD

2014 BA, Psychology (Health and Development track)

Stanford University

Honors Thesis: The biology of worry: autonomic responses to social stress

in generalized anxiety disorder Mentor: Ian H. Gotlib, PhD

HONORS AND AWARDS

- 2024 AWN Rosalind Kornfeld Postgraduate Research Trainee Leadership Award.

 Presented by the Academic Women's Network in recognition of outstanding leadership during post graduate training at Washington University School of Medicine.
- 2023 **ACNP Travel Award**. Presented by the American College of Neuropsychopharmacology to attend and present at the 62-66th annual meetings.
- 2023 **FIT'NG Young Investigator's Award**. Presented by the Fetal Infant and Toddler Neuroimaging group (FIT'NG) to attend and present at the 2nd annual conference.
- 2023 Flux Dissertation Award for Characterizing complex affective processing across age and in relation to social anxiety symptoms. Presented by the Flux Society.
- 2022 **NIH Outstanding Scholars in Neuroscience Award (OSNAP).** <u>OSNAP scholars</u> are PhD candidates or recent PhD graduates who are "conducting exceptional neuroscience research across the nation and have great academic potential in their scientific training".
- 2022 **Top Poster Award** for *Complex emotion processing is represented throughout the cortex and modestly differs across childhood and adolescence* presented at the 14th annual Meeting of the Social and Affective Neuroscience Society, virtual.
- 2022 **Spencer T. and Ann W. Olin Award**. Olin Fellows are recognized for past achievement and the promise of a distinguished career in the biomedical sciences. Presented by the Medical Scientist Training Program Committee at Washington University. Prize: \$1000
- 2020 **3rd Year Neuroscience Program Grant Award,** for *Developing a Public Pediatric Structural Brain Age Algorithm for Psychiatric Research.* Presented by the Division of Biology and Biomedical Sciences Neuroscience Program at Washington University School of Medicine. Prize: \$500
- 2018 **Crowd Favorite Poster Award**, for *Neurodevelopment Supporting Active Emotion Processing in Children: A Multivariate Approach* presented at the Center for Neuroscience annual retreat in September 2018.
- 2017 Flux Congress Modeling Developmental Change Workshop Travel Award NSF funding to attend the pre-FLUX Congress Modeling Developmental Change workshop from 9/14/17-9/15/17

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- 2016 Top Poster Award Finalist, Basic Category, for Accelerated Aging of the Putamen in Major Depressive Disorder presented at the 71st annual meeting for the Society for Biological Psychiatry in May 2016.
- 2014 **Psychology Departmental Honors**, for my thesis *The Biology of Worry: Autonomic Responses to Social Stress in Generalized Anxiety Disorder* presented at the Psychology Honors Convention in June 2014.

GRANTS AND FELLOWSHIPS

2022-2024 F32 Ruth L. Kirschstein National Research Service Award (MH132185)

Neonatal predictors of contextualized emotion processing and risk for anxiety

Award: \$131,220

Role: Principal Investigator

Sponsor: Chad Sylvester, MD, PhD

2020–2023 F31 Ruth L. Kirschstein National Research Service Award (HD102156)

Phenotyping irritability in young children using complex, naturalistic emotion

processing Award: \$94,362

Role: Principal Investigator Sponsor: Deanna Barch, PhD

2017–2022 National Science Foundation Graduate Research Fellowship (DGE-1745038)

The Developmental Cost of Stress: Infant Stress Sensitivity and the Developing

Brain

Award: \$138,000 (3 years of stipend and tuition support)

Role: Fellow

2017 **RSL Lucas Center Grant**, Stanford University

Examining infant myelinoarchitecture through quantitative T1 and diffusion

weighted imaging

Award: 24 scan hours (equivalent: \$11,448)

Role: Co-Investigator

2017 **CNI Innovation Grant**, Stanford University

Neural Networks Underlying Daily Emotional Functioning

Award: \$2,835 (equivalent: 9 scan hours)

Role: Co-Investigator

2012 **Psych-Summer Program Internship**, Stanford University

Spot the Dot! Attentional Bias in Pure and Comorbid Major Depressive Disorder

and Generalized Anxiety Disorder

Award: \$5,000

PROFESSIONAL MEMBERSHIPS AND POSITIONS

Positions

2024–present Diversity Advisor

Department of Psychiatry

Washington University School of Medicine

2022–present Postdoctoral Researcher

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Studies of Early Anxiety Lab

Washington University School of Medicine

2019-2022 PhD Candidate

Division of Biology and Biomedical Sciences

Washington University in St. Louis

2017-2019 PhD student

Center for Neuroscience University of Pittsburgh

2017-present Collaborator

Stress and Early Aversity Lab

Vanderbilt University

2014–2017 MR Research Coordinator

Stanford Neurodevelopment, Affect, and Psychopathology Lab

Stanford University

2012–2014 Undergraduate Research Assistant

Stanford Neurodevelopment, Affect, and Psychopathology Lab

Stanford University

Memberships

2020–present Society for Advancement of Chicanos/Hispanics and Native Americans in

Science (SACNAS)

Student Member, Washington University in St. Louis Chapter

2020–present International Congress of Infant Studies

Student Member

2019–present Fetal, Infant, and Toddler Neuroimaging Group (FIT'NG)

Co-Chair, Scholarly Works Committee 2023-present

Chair, Trainee Committee 2021-2022

Member, Trainee Committee 2021-present

Member, Best Practices and Guidelines Working Group 2020-2021

Member, 2021 Satellite Meeting planning committee

2019–present Flux Society, *Member*

2019–present Social and Affective Neuroscience Society

Member, Trainee Committee 2023-present

Member, Equity Diversity Inclusion and Justice Committee 2023-present

2019–present Society for Research in Child Development, *Member*

2017–present American Association for the Advancement of Science, *Postdoctoral*

Member

PEER-REVIEWED PUBLICATIONS (most recent first)

Google Scholar: https://scholar.google.com/citations?user=fJNnKSUAAAAJ
NIH NLM: https://www.ncbi.nlm.nih.gov/myncbi/1huc 8asexaAi/bibliography/public/

*denotes mentee; #denotes equal first author; ^denotes equal senior author

In prep

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- 1. **Camacho, M.C.,** Schwarzlose, R.F., Perino, M.T., Labonte, A., Harper, J., Koirala, S., Barch, D.M., & Sylvester, C.M. (in prep). Brain state characteristics during moviewatching are related to anxiety symptoms in children.
- 2. **Camacho, M.C.**, Barch, D.M., Brenner, R.G., Kaplan, S., Kenley, J., Lean, R.E., Lee, D.Y., Luby, J.L., Rogers, C.E., Smyser, T., Sylvester C., Warner, B.B., Whalen, D., Wheelock, M.D., & Smyser, C.D. (in prep) Network-level functional connectivity at birth is associated with attention to emotional faces in toddlerhood.
- 3. Furtado, E.*, **Camacho, M.C.**, Chin, J.H.*, & Barch, D.M. (in prep) Person-centered early life stress groupings are associated with depression and ventral attention network activation to naturalistic negative emotional cues.
- 4. Labonte, A.K., **Camacho, M.C.**, Moser, J., Koirala, S., Gratton, C., Laumann, T.O., Marek, S., Fair, D., & Sylvester, C.M. (in prep) Applications of precision functional mapping for furthering developmental psychiatry research.
- Michaud, S.*, Camacho, M.C., Hoyniak, C.P., & Barch, D.M. (in prep). Socioeconomic Disadvantage in the Adolescent Brain Cognitive Development Study: Assessing Associations with Working Memory and Emotion Regulation.

Under review

- Ravi, S.*, Camacho M.C., Conrad, B., Hinkley, E., Scudder, M.R., Niu, Y., Salo, V.C., & Humphreys, K.L. (under review). Deep Characterization of Multimodal Brain Changes Across Pregnancy and the Postpartum: A Case Study.
- Niu, Y.*, Conrad, B.N., Camacho, M.C., Ravi, S., Piersiak, H., Barnet, W., Manhard, M.K., Cole, D.E., Clayton, E., Osmundson, S., Smith, S.A., Kujawa, A., & Humphreys, K.L. (under review) Neurobiological changes Pregnancy: A Prospective Longitudinal Investigation
- 3. Barch, D. M., Camacho, M. C., Karcher, N. R., Sanders, A., Marek, S., Curtis, M., & Bijsterbosch, J. (under review). The role of big data in mental health research.
- 4. Humphreys, K.L., King, L.S., Dennis, E.L., Querdasi, F.R., Segarra, J.R., Sisk, L.M., Camacho, M.C., & Gotlib, I.H. (under review). Maternal stress and infant amygdala volume: Exploring the specificity of preconception, prenatal, and postnatal stress.

In press or published

- Meyers, M.J.*, Labonte, A.K.*, Gordon, E.M., Laumann, T.O., Tu, J.C., Wheelock, M.D., Nielsen, A.N., Schwarzlose, R.F., **Camacho, M.C.,** Warner, B.B., Raghuraman, N., Luby, J.L., Barch, D.M., Fair, D.A., Petersen, S.E., Rogers, C.E., Smyser, C.D., & Sylvester, C.M. (accepted) Functional parcellation of the neonatal brain. *Cerebral Cortex.*
- Donohue, M.R., Camacho, M.C., Drake, J.E., Schwarzlose, R.F., Brady, R.G., Hoyniak, C.P., Hennefield, L., Wakschlag, L.S., Rogers, C.E., Barch, D.M., & Luby, J. (2024). Less attention to emotional faces is associated with low empathy and prosociality in 12to 20-month-old infants. *Infancy*. https://doi.org/10.1111/infa.12569
- 3. Schwarzlose, R.F., Filippi, C.A., Myers, M.J., Harper, J., Smyser, T.A., Smyser, C.D., Rogers, C.E., Shimony, J.S., Warner, B.B., Luby, J.L., Barch, D.M., Pine, D.S., Fox, N.A., **Camacho, M.C.**, & Sylvester, C.M. (2023) Neonatal neural responses to novelty

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- related to behavioral inhibition at one year. *Developmental Psychology*. https://psycnet.apa.org/doi/10.1037/dev0001654
- 4. **Camacho, M.C.**, Balser, D.*, Furtado, E.J.*, Rogers, C.E., Schwarzlose, R.F., Sylvester, C.M., & Barch, D.M. (accepted). Higher inter-subject variability in neural response to narrative social stimuli among youth with higher social anxiety. *Journal of the American Academy of Child and Adolescent Psychiatry*. https://doi.org/10.1016/j.jaac.2023.08.020
- Ravi, S.*, Camacho, M.C.*, Fleming, B., Scudder, M.R., & Humphreys, K.L. (2023). Concurrent and prospective associations between frontoparietal and default mode network connectivity and negative affectivity in infancy. *Biological Psychology*. https://doi.org/10.1016/j.biopsycho.2023.108717
- Camacho, M.C., Nielsen, A.N., Balser, D.*, Furtado, E.*, Steinberger, D., Fruchtman, L., Culver, J.P., Sylvester, C.M., & Barch D.M. (2023). Evidence for large-scale encoding of functional emotion perception that becomes increasingly similar between individuals across childhood and adolescence. *Nature Neuroscience*. https://doi.org/10.1038/s41593-023-01358-9
- Spann, M.N., Wisnowski, J.L., HBCD Phase I Scanning Young Populations Working Group, Smyser, C.D., FIT'NG, Howell, B., & Dean, D.C. (2023). The Science, Art and Secrets of Scanning Young Children. *Biological Psychiatry*. https://doi.org/10.1016/j.biopsych.2022.09.025
- 8. **FIT'NG**. (2022). A, opportunity to increase collaborative science in fetal, infant, and toddler neuroimaging. *Biological Psychiatry*. https://doi.org/10.1016/j.biopsych.2022.07.005
- 9. Benear, S.L., Horwath, E.A., Cowan, E., **Camacho, M.C.**, Ngo, C.T., Newcombe, N.S., Olson, I.R., Perlman, S.B., & Murty, V.P. (2022). Children show adult-like hippocampal pattern similarity for familiar but not novel events. *Brain Research.* 1791, 147991. https://doi.org/10.1016/j.brainres.2022.147991
- Hoyniak, C.P., Bates, J.E., Camacho, M.C., McQuillan, M.E., Whalen, D.J., Staples, A.D., Rudasill, K.M., & Deater-Deckard, K. (2022). The Physical Home Environment and Sleep: What Matters Most for Sleep in Early Childhood. *Journal of Family Psychology*. 36 (5) 757-769. https://doi.org/10.1037/fam0000977
- 11. Pollatou, A., Filippi, C.A., Aydin, E., Vaughn, K., Thompson, D., Korom, M., Dufford, A.J., Howell, B., Zöllei, L., Di Martino, A., Graham, A., Robinson, E., FIT'NG Group, Scheinost, D., & Spann, M. (2022). An ode to Fetal, Infant, and Toddler Neuroimaging: Chronicling early clinical to research applications with MRI, and an introduction to an academic society connecting the field. *Developmental Cognitive Neuroscience*. 54, 101083. https://doi.org/10.1016/j.dcn.2022.101083
- 12. **Camacho, M.C.***, Williams, E.M.*, Balser, D.*, Kamojjala, R.*, Sekar, N.*, Steinberger, D.*, Yarlagadda, S.*, Perlman, S.B., & Barch, D.M. (2022). EmoCodes: A standardized coding system for socio-emotional content in complex video stimuli. *Affective Science*. https://doi.org/10.1007/s42761-021-00100-7
- 13. Korom, M.*, Camacho, M.C.*, Filippi, C.A., Licandro, R., Moore, L.A., Dufford, A., Zöllei, L., Graham, A.M., Spann, M., Howell, B., FIT'NG, Shultz, S.^, & Scheinost, D.^ (2022). Dear Reviewers: Responses to Common Reviewer Critiques about Infant Neuroimaging Studies. *Developmental Cognitive Neuroscience*. 53, 101055. https://doi.org/10.1016/j.dcn.2021.101055
- 14. Hoyniak, C.P., Quiñones-Camacho, L.E., **Camacho, M.C.**, Chin, J.H.*, Williams, E.M.*, Wakschlag, L.S., & Perlman, S.B. (2021). Adversity is linked with decreased parent-

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- child neural synchrony in the context of laboratory-induced stress. *Developmental Cognitive Neuroscience*. 48, 100937 https://doi.org/10.1016/j.dcn.2021.100937
- King, L.S., Camacho, M.C., Montez, D.F., Humphreys, K.L., & Gotlib, I.H. (2021). Naturalistic language input is associated with resting-state functional connectivity in infancy. *Journal of Neuroscience*. 41 (3) 424-434. https://doi.org/10.1523/JNEUROSCI.0779-20.2020
- Camacho, M.C., Williams, E.M.*, Ding, K., & Perlman, S.B. (2021). Multimodal Examination of Emotion Processing Systems Associated with Negative Affectivity across Early Childhood. *Developmental Cognitive Neuroscience*. 48, 100917. https://doi.org/10.1016/j.dcn.2021.100917
- Humphreys, K.L., Camacho, M.C., Roth, M.C., & Estes, E.C. (2020). Prenatal stress exposure and multimodal assessment of amygdala-medial prefrontal cortex connectivity in infants. *Developmental Cognitive Neuroscience*. 46, 100877. https://doi.org/10.1016/j.dcn.2020.100877
- Camacho, M.C., Quiñones-Camacho, L.E., & Perlman, S.B. (2020). Does the Child Brain Rest?: An Examination and Interpretation of Resting Cognition in Developmental Cognitive Neuroscience. *NeuroImage*. 212, 116688. https://doi.org/10.1016/j.neuroimage.2020.116688
- 19. **Camacho, M.C.**, King, L.S., Ojha, A.*, Sisk, L.M.*, Garcia, C.M., Cichocki, A.C.*, Humphreys, K.L., & Gotlib, I.H. (2020). Cerebral Blood Flow in 5- to 8-Month-Olds: Regional Tissue Maturity is Associated with Infant Affect. *Developmental Science*. 23(5), e12928. http://doi.org/10.1111/desc.12928
- Quiñones-Camacho, L.E., Fishburn, F., Camacho, M.C., Hlutkowsky, C.O., Huppert, T. J., Wakschlag, L.S., & Perlman, S. B. (2019). Parent-child neural synchrony: A novel approach to elucidating dyadic mechanisms of preschool irritability. *Journal of Child Psychology and Psychiatry*. http://doi.org/10.1111/jcpp.13165
- Quiñones-Camacho, L.E., Fishburn, F., Camacho, M.C., Wakschlag, L.S., & Perlman, S. B. (2019). Cognitive Flexibility-Related Prefrontal Activation in Preschoolers: A Biological Approach to Temperamental Effortful Control. *Developmental Cognitive Neuroscience*. 38, 100651. https://doi.org/10.1016/j.dcn.2019.100651
- Schwartz, J., Ordaz, S.J., Davis, E.G., Ho, T.C., Kircanski, K., Camacho, M.C., & Gotlib, I.H. (2019). Dorsal anterior cingulate connectivity predicts daily emotional functioning in major depression. *Journal of Affective Disorders*. 249, 26-44. https://doi.org/10.1016/j.jad.2019.01.040
- 23. **Camacho, M.C.**, Karim, H.T., & Perlman, S.B. (2019). Neural Architecture Supporting Active Emotion Processing in Children: A Multivariate Approach. *NeuroImage*. 188, 171–180. http://doi.org/10.1016/j.neuroimage.2018.12.013
- 24. Humphreys, K.L., Sacchet, M.D., **Camacho, M.C.**, King, L.S., Colich, N.L., Ordaz, S.J., Ho, T.C., & Gotlib, I.H. (2018). Evidence for a sensitive period in the effects of early life stress on human hippocampal volume. *Developmental Science*. E12775. https://doi.org/10.1111/desc.12775
- Ho, T.C., Cichocki, A.C.*, Gifuni, A.J., Camacho, M.C., Ordaz, S.J., Singh, M.K., & Gotlib, I.H. (2018) Reduced dorsal striatal gray matter volume predicts implicit suicidal ideation in adolescents. Social Cognitive and Affective Neuroscience. 13(11), 1215-1224. https://doi.org/10.1093/scan/nsy089
- 26. Hamilton, J.P., Sacchet, M.D., Hjørnevik, T., Chin, F., Shen, B., Kämpe R., R., Park, J., Knutson, B., Williams, L., Borg, N., Zaharchuk, G., **Camacho, M.C.**, Mackey, S., Heilig,

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- M., Drevets, W., Glover, G., Gambhir, S., & Gotlib, I.H. (2018) Striatal dopamine deficits predict reductions in striatal functional connectivity in major depression: A concurrent 11C-raclopride positron emission tomography and functional magnetic resonance imaging investigation. *Translational Psychiatry*. 8: 264. https://doi.org/10.1038/s41398-018-0316-2
- 27. King, L.S., Humphreys, K.L., Camacho, M.C., & Gotlib, I.H. (2018). A Person-Centered Approach to the Assessment of Early Life Stress: Neurobiological Correlates in Early Adolescence. *Developmental Psychopathology*. https://doi.org/10.1017/S0954579418000184
- 28. Ellwood-Lowe, M.E., Humphreys, K.L., Ordaz, S.J., **Camacho, M.C.**, Sacchet, M.D., & Gotlib, I.H. (2018). Time-varying effects of income on hippocampal volume trajectories in adolescent girls. *Developmental Cognitive Neuroscience*. 30, 41-50. https://doi.org/10.1016/j.dcn.2017.12.005
- 29. Fischer, A.S., **Camacho, M.C.**, Ho, T.C., Whitfield-Gabrieli S., & Gotlib, I.H. (2018). Neural markers of resilience in adolescents at familial risk for major depressive disorder. *JAMA Psychiatry:* 75(5), 493-502. https://doi.org/10.1001/jamapsychiatry.2017.4516
- 30. Davis, E.G., Humphreys, K.L., McEwen, L.M., Sacchet, M.D., **Camacho, M.C.**, MacIsaac, J.L., Lin, D., Kobor, M.S., & Gotlib, I.H. (2017). Accelerated DNA methylation age in adolescent girls: associations with elevated diurnal cortisol and reduced hippocampal volume. *Translational Psychiatry*. 7, E1223. 1 http://doi.org/0.1038/tp.2017.188
- 31. Sacchet, M. D., **Camacho, M. C.,** Livermore, E. E., Thomas, E. A. C., & Gotlib, I. H. (2017). Accelerated aging of the putamen in patients with major depressive disorder. *Journal of Psychiatry & Neuroscience: JPN*, 42(3), 164–171. http://doi.org/10.1503/jpn.160010
- 32. Kircanski, K., Waugh, C.E., **Camacho, M.C.**, & Gotlib, I.H. (2016). Aberrant parasympathetic stress responsivity in pure and co-occurring major depressive disorder and generalized anxiety disorder. *Journal of Psychopathology & Behavioral Assessment*. 38(1), 5-19. http://doi.org/10.1007/s10862-015-9493-y

BOOK CHAPTERS

1. **Camacho, M.C.**, Wakschlag, L.S., Perlman, S.B. (2019). Early Childhood Irritability: Using a neurodevelopmental framework to inform clinical understanding. In A. K. Roy, M. A. Brotman, E. Leibenluft (Eds.), *Irritability in Pediatric Psychopathology*. Oxford University Press.

PRE-PRINTS

Work in this section includes pre-prints that have not been otherwise published in a journal. These works may have not yet been submitted or include null results that are unlikely to be accepted for publication.

 Camacho, M. C., Fishburn, F., Karim, H. T., Wakschlag, L. S., & Perlman, S. B. (2020). Dysfunctional Attention Processing in Children with Clinical Irritability. https://doi.org/10.31234/osf.io/npbw7

PRESENTATIONS

*denotes mentee; #denotes equal contribution

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Invited Talks

- 1. **Camacho, M.C**. (2023, October) *Neural emotion processing and child anxiety.* Talk given at the Columbia University NYSPI T32 postdoctoral training program in translational research in child psychiatry seminar. Virtual.
- 2. Camacho, M.C. (2023, September) Brain activation states in neonates at risk for anxiety. Talk given at the second annual Fetal, Infant, and Toddler Neuroimaging Group meeting. Santa Rosa, CA.
- 3. **Camacho, M.C**. (2023, July) *Neural emotion processing in anxious children.* Talk given at the Developmental Cognition and Neuroimaging Lab meeting. Virtual.
- 4. **Camacho, M.C**. (2023, May) Characterizing differences in neural emotion processing in anxious children. Talk given at the Child Development Lab meeting. Virtual.
- 5. **Camacho, M.C**. (2022, April) *Similarity Analysis for Developmental Cognitive Neuroscience Research.* Talk given at the Cognitive Development and Neuroimaging Laboratory. Columbia University. Virtual.
- Camacho, M.C., Barch, D. (2021, November) Characterizing complex affective processing across age and in relation to depression and anxiety. Talk given at the Cognitive, Affect, and Neurodevelopment in Youth Lab Meeting. University of California-San Francisco. Virtual.
- 7. **Camacho, M.C.,** Williams, E.M., Perlman, S.B. (2020, November) *The Neural Basis of Emotion Processing in Childhood.* Talk given at the Brain Connectivity and Cognition Lab Meeting. University of Miami. Virtual.
- 8. **Camacho, M.C.,** Burlew, A*., Karim, H.T., Quiñones-Camacho, L.E., Wakschlag, L.S., Perlman, S.B. (2019, September) *Structural Neurodevelopmental Correlates of Temperamental and Clinical Irritability*. Talk given at the 2019 Biennial Congress on Pediatric Irritability. Burlington, VT.

Symposia and Other Talks

- 1. **Camacho, M.C.,** Nielsen, A.N., Balser, D., Fruchtman, L., Furtado, E., Steinberger, D., Witherspoon, A., Culver, J., Sylvester, C.M., & Barch, D.M. (2022, May). *Complex emotion processing is represented throughout the cortex and modestly differs across childhood and adolescence*. Blitz talk & presented at the 14th annual Meeting of the Social and Affective Neuroscience Society, virtual.
- 2. **Camacho, M.C.**, Williams, E.M., Perlman, S.B. (2020, September) *Complex Emotional Processing in Young Children.* Flash talk & poster presented at the 2020 Flux Conference. Online.
- 3. **Camacho, M.C.,** Burlew, A*., Perlman, S.B. (2019, March) *Structural Neurodevelopmental Correlates of Temperamental Irritability and Externalizing Symptomology*. Symposia presented at the 2019 Biennial Meeting for the Society for Research in Child Development. Baltimore, MD
- 4. **Camacho, M.C.**, Karim, H.T., Perlman, S.B. (2018, October) *Neurodevelopment Supporting Active Emotion Processing in Children: A Multivariate Approach.* Presented at the Center for the Neural Basis of Cognition Brain Bag. Pittsburgh, PA.
- 5. **Camacho, M.C.**, Karim, H.T., Perlman, S.B. (2018, October) *Neurodevelopment Supporting Active Emotion Processing in Children: A Multivariate Approach.* Presented

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- at the Undergraduate Neuroscience Pro-Seminar Series at the University of Pittsburgh. Pittsburgh, PA.
- 6. **Camacho, M.C.**, Fishburn, F., Karim, H.T., Wakschlag, L., Perlman, S.B. (2018, January) *Emotional distraction in irritable children*. Presented at the Undergraduate Neuroscience Pro-Seminar Series at the University of Pittsburgh. Pittsburgh, PA.
- 7. **Camacho, M.C.**, Perlman, S.B. (2017, October) *Irritability and the Neural Circuitry Underlying Executive Function and Reward*. Presented at the Undergraduate Neuroscience Pro-Seminar Series at the University of Pittsburgh. Pittsburgh, PA.
- 8. Humphreys, K.L., Sacchet, M.D., **Camacho, M.C.**, King, L.S., Colich, N.L., Ordaz, S.J., Ho, T.C., Gotlib, I.H. (2016, May) *Evidence for a Sensitive Period in the Effects of Early Life Stress on Human Hippocampal Volume*. Oral Session at the 71st annual meeting for the Society for Biological Psychiatry. Atlanta, GA.
- 9. Camacho, M.C., Sacchet, M.D., Livermore, E.E., Thomas, E., Gotlib, I.H. (2015, May). Accelerated Aging of the Putamen in Major Depressive Disorder: A Volumetric Analysis of the Basal Ganglia. Stanford University, Stanford Neuroscience Forum. Stanford, CA.

Posters

- Camacho, M.C., Schwarzlose, R.F., Perino, M.T., Labonte, A., Harper, J., Koirala, S., Barch, D.M., & Sylvester, C.M. (2023, September). Brain state characteristics during movie-watching are related to anxiety symptoms in children. Poster presented at the 11th Annual Flux Congress. Santa Rosa, CA, USA.
- Camacho, M.C., Fruchtman, L., Yarlagadda, S., Duggal, J., Njenga, S., Williams, E.M., & Barch, D.M. (2023, March). Characterizing Dynamic Processing of Socio-Emotional Stimuli Across Childhood and Early Adolescence. Poster presented at the 10th annual meeting for the Society for Affective Science. Long Beach, CA, USA.
- 3. Ravi, S.*, Camacho, M.C.*, Fleming, B., Scudder, M.R., & Humphreys, K. L. (2022, September). Concurrent and Prospective Associations Between Frontoparietal and Default Mode Network Connectivity and Negative Affectivity in Infancy. Poster presented at the 1st Annual Fetal, Infant, and Toddler Neuroimaging Group (FIT'NG) Conference. Paris, France.
- 4. **Camacho, M.C.,** Nielsen, A.N., Balser, D., Fruchtman, L., Furtado, E., Steinberger, D., Witherspoon, A., Culver, J., Sylvester, C.M., & Barch, D.M. (2022, May). Complex emotion processing is represented throughout the cortex and modestly differs across childhood and adolescence. Poster presented at the 14th annual Meeting of the Social and Affective Neuroscience Society, virtual. **Poster award winner
- 5. Furtado, E.*, **Camacho, M.C.,** Chin, J.H., & Barch, D.M. (2022, March). Characterizing the association between early life stress, naturalistic negative emotion processing and depressive symptoms. Poster presented at the 9th annual Society for Affective Science Conference, virtual.
- 6. **Camacho, M.C.,** Barch, D.M., Brenner, R.G., Kaplan, S., Kenley, J., Lean, R.E., Lee, D.Y., Luby, J.L., Rogers, C.E., Smyser, T., Sylvester C., Warner, B.B., Whalen, D., Wheelock, M.D., Smyser, C.D. (2021, September). *Neonatal functional network predictors of infant affective behavior.* Poster presented at the 9th Annual Flux Congress, virtual.

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- 7. Williams, E.M.*, **Camacho, M.C.**, Perlman, S.B. (2021, April). "EmoCodes": a standardized movie coding system for affective neuroscience research. Poster presented at the 8th annual Society for Affective Science Conference, virtual.
- 8. **Camacho, M.C.***, Ravi, S.*, & Humphreys, K.L. (2020, October). Concurrent and prospective associations between frontoparietal and default mode network connectivity and negative affectivity in infancy. Poster to be presented at the 53rd annual meeting of the International Society for Developmental Psychobiology, virtual.
- 9. Ravi, S.*, Camacho M.C.*, & Humphreys, K.L. (2020, October). *Maternal irritability during pregnancy predicts decreased infant frontoparietal network connectivity.* Poster presented at the Perinatal, Preterm, and Pediatric Image Analysis Virtual Conference.
- Camacho, M.C., Burlew, A.*, Karim, H.T., Quiñones-Camacho, L.E., Wakschlag, L.S., Perlman, S.B. (2019, August) Gray Matter Density Patterns in the Prefrontal Cortex Predict Irritability Scores. Poster presented at the 7th Annual Meeting of the Flux Society. New York, NY.
- Camacho, M.C., Karim, H.T., Quiñones-Camacho, L.E., Wakschlag, L.S., Perlman, S.B. (2019, May) Gray Matter Density Patterns in the Prefrontal Cortex Predict Irritability Scores. Poster presented at the 12th Annual Meeting of the Social & Affective Neuroscience Society. Miami, FL.
- 12. **Camacho, M.C.**, Karim, H.T., Perlman, S.B. (2018, September). *Neurodevelopment Supporting Active Emotion Processing in Children: A Multivariate Approach*. Poster presented at the 32nd Annual Center for Neuroscience at the University of Pittsburgh Retreat. Wheeling, WV.
- 13. Burlew, A.*, **Camacho, M.C.**, Perlman, S.B. (2018, June). Sub-cortical volumetric correlates of temperament profiles predicting psychopathology in children. Poster presented at the Annual Department of Psychiatry Research Day. Pittsburgh, PA.
- 14. Ojha, A.*, Camacho, M.C., King, L.S., Humphreys, K.L., Gotlib, I.H. (2018, May). Infant Regional Cerebral Blood Flow is Correlated with Maternal Sensitivity Following Social Stress. Poster presented at the 11th Annual Meeting of the Social & Affective Neuroscience Society. Brooklyn, NY.
- 15. Cichocki, A.C.*, Ho, T.C., **Camacho, M.C.**, Gotlib, I.H. (2018, May). *Putamen Gray Matter Volume Predicts Implicit but Not Self-Report Measures of Suicidality in Young Adolescents.* Poster presented at the 73rd annual meeting for the Society for Biological Psychiatry. New York, NY.
- Camacho, M.C., Fishburn, F., Karim, H., Wakschlag, L.S., Perlman, S.B. (2017, September). DLPFC activation during executive function with emotional distractors in irritable children. Poster presented at the 2nd annual Congress on Pediatric Irritability. Burlington, VT.
- 17. **Camacho, M.C.**, Fishburn, F., Karim, H., Wakschlag, L., Perlman, S.B. (2017, September). *DLPFC activation during executive function with emotional distractors in irritable children*. Poster presented at the 31st Annual Center for Neuroscience at the University of Pittsburgh Retreat. Wheeling, WV.
- 18. Humphreys, K.L., King, L.S., Ellwood-Lowe, M.E., **Camacho, M.C.**, Ho, T.C., Gotlib, I.H. (2017, May). *Postpartum Depression Predicts Infant Amygdala—Anterior Cingulate Cortex Connectivity at Rest*. Poster presented at the 29th Association for Psychological Science annual convention. Boston, MA.
- 19. King, L.S., Humphreys, K.L., **Camacho, M.C.**, Ellwood-Lowe, M.E., Ho, T.C., Gotlib, I.H. (2017, May). *Infant Experiences of Linguistic Stimulation are Associated with Maternal*

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- Maltreatment History and Resting-State Connectivity of the Posterior Cingulate Cortex and Left Superior Frontal Gyrus. Poster presented at the 29th Association for Psychological Science annual convention. Boston, MA.
- 20. **Camacho, M.C.**, Ho, T.C., Fischer, A.S., Bansal, H.*, Gotlib, I.H. (2017, May). *Regional Cerebral Blood Flow Patterns Underlying Susceptibility and Resilience to Depression in Adolescent Females.* Poster presented at the 72nd annual meeting for the Society for Biological Psychiatry. San Diego, CA.
- 21. Ellwood-Lowe, M.E., Humphreys, K.L., Sacchet, M.D., **Camacho, M.C.**, Ordaz, S.J., Gotlib, I.H. (2017, May). *Perceived social standing predicts hippocampal volume over and above the effects of income.* Poster presented at the 72nd annual meeting for the Society for Biological Psychiatry. San Diego, CA.
- 22. Ordaz, S.J., Popolizio, M.M., Price, A., Pollak, M.R., **Camacho, M.C.**, Gotlib, I.H. (2016, September). *Salience Network Coherence Mediates the Relation Between Parental Criticism and Depressive Symptoms in Early-Pubertal Girls.* Poster presented at the 4th Annual Flux Congress. St. Louis, MO.
- 23. **Camacho, M.C.**, Sacchet, M.D., Livermore, E.E., Thomas, E., Gotlib, I.H. (2016, May). *Accelerated Aging of the Putamen in Major Depressive Disorder*. Poster presented at the 71st annual meeting for the Society for Biological Psychiatry. Atlanta, GA.
- 24. Schouboe, S.N.F., Humphreys, K.L., **Camacho, M.C.**, Sacchet, M.D., Ordaz, S.J., Colich, N.L., King, L.S., Gotlib, I.H. (2016, May). *Stress Moderates the Association Between Nucleus Accumbens Volume and Irritability in Children*. Poster presented at the 71st annual meeting for the Society for Biological Psychiatry. Atlanta, GA.
- 25. Ho, T.C., Ordaz, S.J., Sacchet, M.D., **Camacho, M.C.**, King, L.S., Humphreys, K.L., Colich, N.L., Popolizio, M.M., Singh, M.K., Gotlib, I.H. (2016, May). *Smaller Amygdala Volume Predicts Higher Levels of Subsequent Suicidal Ideation in Young Adolescents.* Poster presented at the 71st annual meeting for the Society for Biological Psychiatry. Atlanta, GA.
- 26. Vu, V.H., Humphreys, K.L., King, L.S., Sacchet, M.D., **Camacho, M.C.**, Ho, T.C., Gotlib, I.H. (2016, May). *Child-Reported Neglect is Associated with Increased Amygdala Volume in Early Adolescent Boys.* Poster presented at the 71st annual meeting for the Society for Biological Psychiatry. Atlanta, GA.
- 27. Price, A.N., **Camacho, M.C.,** Kircanski, K., Gotlib, I.H. (2015, May). *Young Girls' Autonomic Responses to Social Stress as a Function of Environmental Adversity and Familial Risk for Depression.* Poster presented at the 70th annual meeting for the Society for Biological Psychiatry. Toronto, ON.
- 28. **Camacho, M.C.,** Kircanski, K., Gotlib, I.H. (2014, June). *The Biology of Worry: Autonomic Response to Social Stress in Generalized Anxiety Disorder.* Thesis poster presented at the annual Psychology Honors Convention. Stanford University, Stanford, CA.
- 29. **Camacho, M.C.,** Kircanski, K., Gotlib, I.H. (2012, August). Spot the Dot! Attentional Bias in Pure and Comorbid Major Depressive Disorder and Generalized Anxiety Disorder.

 Poster presented at the annual Psych-Summer Poster Session. Stanford University, Stanford, CA.

LIBRARIES, MODULES, INSTRUMENTS AUTHORED

Github: https://github.com/catcamacho?tab=repositories

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emocodes (python library) part of the EmoCodes system, assists with 2021 processing videos and video codes for neuroimaging analysis. Role: primary developer/maintainer The EmoCodes Coding system (coding manual). Video coding system 2021 for reproducible affective neuroscience work. Role: co-creator and primary

maintainer

CAREER DEVELOPMENT AND RESEARCH TRAINING

2020	Leadership and Management in Action Program. A 6-week course led by an expert in leadership and organizational dynamics. The units covered were professionalism and professional identity, leading without authority, negotiation, working in teams, inclusive organizational structure, and writing a leadership statement. Click here for more details.
2020	NeuroMatch Academy. A three-week intensive training academy in computational neuroscience. Topics covered: model classification, model fitting, dimensionality reduction, machine learning, Bayesian statistics, linear systems, reinforcement learning, network causality, and deep learning. Syllabus
2019	FIT'NG In: Establishing Best Practices for Infant Neuroimaging. Flux Pre-Conference Workshop. Topics covered: scanning procedures, processing considerations, and novel approaches to studying the fetal, infant, and toddler brain.
2018	Infant Brain Processing Workshop . Flux Satellite Conference on Big Data, Little Brains. Included introductions to tools developed at UNC-Chapel Hill for processing fMRI, sMRI, and dMRI from infants.
2017	Modeling Developmental Change Workshop. Flux Congress. Hands-on training in multilevel models, mixed models, and other statistical approaches and considerations for longitudinal data analysis.

TEACHING EXPERIENCE

2022	Guest Lecturer, Biological Basis of Behavior Faculty advisor: Dr. Laura Quinones-Camacho
	I designed and taught a graduate-level guest lecture titled How do babies learn to
	understand emotions in others?
	University of Texas at Austin, TX
2022 Instructor, CCP Undergraduate Career Development Series	
	Washington University in St. Louis, MO
2021	Facilitator, CCP Undergraduate Journal Club
	Washington University in St. Louis, MO
2018-2021	Instructor, Diversity and Inclusivity in Science
	Faculty Advisor: Dr. Alan Sved
	Seminar co-taught with Kati Rothenhoefer as part of the CNUP Graduate Ethic
	Seminar series for first years.
	University of Pittsburgh, PA
2018-2021	Instructor, Sexual Harassment in Science
	Frank, Advisory Dr. Alan Cood

Faculty Advisor: Dr. Alan Sved

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Seminar co-taught with Kati Rothenhoefer as part of the CNUP Graduate Ethic Seminar series for first years. University of Pittsburgh, PA 2018 Teaching Fellow, Brain and Behavior Faculty advisor: Dr. Meredyth Wegener This course is taught primarily to freshmen undergraduates and surveys a wide breadth of topics related to the neural basis of behavior. I designed and taught a lecture titled Emotion in the Brain. University of Pittsburgh, PA 2018 Instructor, LCBD Summer Boot Camp An 8-week boot camp with the goal to equip all undergraduates within the lab with a basic understanding of signal processing, fNIRS analysis, fMRI analysis, and programming. This was co-taught with Dr. Frank Fishburn. University of Pittsburgh, PA Facilitator, LCBD Summer Journal Club 2018 Co-taught with Dr. Frank Fishburn. University of Pittsburgh, PA 2017 Instructor, FreeSurfer: A Practical Tool for Anatomical MRI Data Processing https://github.com/catcamacho/freesurfer_class Stanford University, CA 2015–2017 Instructor, Neuroanatomy, Depression, and Research Methodology Taught to research assistants in the Mood and Anxiety Disorders Lab Stanford University, CA

2012 Student Teacher

East Classroom, Bing Nursery School

Stanford University, CA

TEACHING & MENTORING TRAINING

2024	Mentorship Training Center for the Improvement of Mentored Experiences in Research Office of Postdoctoral Affairs
	Washington University in St. Louis, MO
2022	Designing Writing Assignments and Grading Criteria
	Center for Teaching and Learning Workshop
	Washington University in St. Louis, MO
2020	Teaching to a Diverse Student Population
	Center for Teaching and Learning Workshop
	Washington University in St. Louis, MO
2020	<u>Classroom Management</u>
	Center for Teaching and Learning Workshop
	Washington University in St. Louis, MO
2019	Improvisation in your Teaching
	Center for Teaching and Learning Workshop
	Washington University in St. Louis, MO
2018	How to Construct a Syllabus
	Center for Teaching and Learning Workshop

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	University of Pittsburgh, PA
2018	Handling and Preventing Cheating and Plagiarism
	Center for Teaching and Learning Workshop
	University of Pittsburgh, PA
2018	Effective Teaching with PowerPoint
	Center for Teaching and Learning Workshop
	University of Pittsburgh, PA
2018	The Role of the Teaching Assistant
	Center for Teaching and Learning Workshop
	University of Pittsburgh, PA

MENTORING

Undergraduates (ac 2023–present 2023–present 2023–present	denotes thesis or independent project advisee) Jade Mehta, PNP, Washington University in St. Louis aVicky Cadena, Biology, Washington University in St. Louis Elina Deshpande, Biology/Psychology, Washington University in St. Louis
2023–present	Ari Djemal Rukin, Biology, Washington University in St. Louis
2023–present	Natalie Huttner, Anthropology, Washington University in St. Louis
2023-present 2023-2024	^a Abby Hook, Biology, Washington University in St. Louis Paige Campbell, PNP, Washington University in St. Louis
2023–2024 2022–present	^a Jon Tsao, Biology, Washington University in St. Louis
2021-present	^a Leah Fruchtman, Psychology, Washington University in St. Louis
2020–2023	^a Sishir Yarlagadda, Neuroscience, Washington University in St. Louis
2021–2022	Kiersten Connolly, Psychology, Washington University in St. Louis
2020–2022	^a Dori Balser, Psychology, Washington University in St. Louis
2021–2022	Arieona Witherspoon, Psychology, Washington University in St. Louis
2020–2021	Da Yun "Katie" Lee, Biology, Washington University in St. Louis
2020–2021	^a Kaitlyn Buehler, Psychology, Washington University in St. Louis
2020–2021	Kaeli-Skye Spight, Biology, Washington University in St. Louis
2018–2019	^a Vito Galati, Neuroscience, University of Pittsburgh
2017–2020	^a Jay Solgama, Neuroscience, University of Pittsburgh
2017–2020	^a Alex Burlew, Neuroscience, University of Pittsburgh
2017–2018	^a Hannah Jones, Neuroscience, University of Pittsburgh
2017	Artenisa Kulla, Human Biology, Stanford University
2016–2017	Kalea Woods, Human Biology, Stanford University
2016–2017	Sevde Kaldıroğlu, English, Stanford University
2014–2017	Kira Oskirko, Psychology, Stanford University
2014–2017	Daniel Lowet, Human Biology, Stanford University
2014–2015	Trinh Marie La, Symbolic Systems, Stanford University

Post-baccalaureate research assistants

2023-present	Kendall Tinianov, B.A.
2022-present	Sahvannah Michaud, B.A.
2022-present	Janhvi Duggal, B.A.

2021–2024 Emily Furtado, B.A. to psychology PhD at University of Minnesota

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2019–2021	Jenna Chin, B.S. to psychology PhD at University of Denver
2019-2021	Elizabeth Williams, B.S. to ABA masters program at Rollins University
2017-2019	Amar Ojha, B.A. to neuroscience PhD at University of Pittsburgh
2016-2019	Lucinda Sisk, B.A. to psychology PhD at Yale University
2016–2019	Anna Cichocki, B.A. to psychology PhD at Northwestern University
2016–2018	Hitashi Bansal, B.A. to genetic counseling masters program at UCSF

Young Scientist Program Summer Focus mentees

2023	Jade Strickland, Bellevue West High School
2023	Iwinosa Egharevba, Hazelwood West High School
2022	Sally Njenga, Hazelwood West High School

CNUP Student Group mentees

2017–2019 Ana Almeida Rojo, Neuroscience PhD student, University of Pittsburgh

ENDURE

2023-present	Vicky Cadena, Biology,	Washington	University in St. Louis
	- 7 7	3	

2020–2021 Blanca Pérez, Neuroscience, Brown University

Project SHORT mentees

2022 Jaylon Cunningham, undergraduate, Fontbonne University	
2022 Usuy David Leon Tolosa, undergraduate, National University of Colur	nbia
2021 Ankush Chakraborty, post-bacc, Panjab University	
2020 Mariela Lopez, undergraduate, University of California San Diego	

Psychin' Out mentees

2022	Sena Park, post-bacc, Dartmouth School of Medicine
2022	Elizabeth Perkovich, PhD Student, University of Houston

SERVICE AND OUTREACH

Departmental

- Diversity Advisor, Department of Psychiatry, Washington University in St. Louis School of Medicine (2024-present)
- Racial Equity and Justice in Research Subcommittee member, Division of Child and Adolescent Psychiatry, Department of Psychiatry, Washington University in St. Louis School of Medicine (2020)

Ad-hoc reviewer

Journal of Child Psychology and Psychiatry; Neuropsychopharmacology; NeuroImage; Neurobiology of Stress; Biological Psychiatry; Psychological Medicine; Biological Psychiatry: Global Open Science; Child Development; Neuroscience and Biobehavioral Reviews

Outreach

I have a strong commitment to bolstering support and inclusivity for underrepresented minority students in STEM as well as improving representation and equity in the sciences.

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Speaking to this, I have been actively involved in the outreach groups below (hyperlinked for more information about each program).

- Letters to a Pre-Scientist Scientist pen pal, 2018-present
- Brain Discovery Materials Coordinator, 2020-present
- Amazing Brain Carnival volunteer, 2020-present (annual)
- <u>ENDURE</u> Wire Together, Fire Together (WTFT) buddy, 2020-2021; Bench mentor, 2023-present
- Psychin' Out, ad-hoc mentor, 2022-present
- Young Scientist Program Summer Focus mentor, 2022, 2023
- <u>Project SHORT</u> ad-hoc reviewer and mentor, 2020-present; Co-Director of Pre-Grad Evaluation and Development 2022-present

<u>Activism</u>

Bolstering equity and inclusion in science requires top-down changes at various levels in society at large and academia in particular. Activism is a necessary component of this process to convey how much support there is for these changes from the community. My actions in the following capacities are aimed at building relationships with university leadership and helping guide top-down changes.

- DBBS Coalition for Justice, member 2020-2022
- Anti-Bigotry Coalition, co-founder
- WUGWU, co-chair 2021

REFERENCES

Chad Sylvester, MD, PhD

Associate Professor (314) 286-1700
Department of Psychiatry chad.sylvester@wustl.edu
Washington University in St. Louis, St. Louis, MO

Deanna Barch, PhD

Professor of Psychological & Brain Sciences (314) 935-8729 Gregory B. Couch Professor of Psychiatry dbarch@wustl.edu Washington University in St. Louis, St. Louis, MO

Ian Gotlib, PhD

Marjorie Mhoon Fair Professor (650) 725-9216
The Taube Family Endowed Transdisciplinary ian.gotlib@stanford.edu
Investigator for Maternal Child Health
Department of Psychology
Stanford University, Stanford, CA

Kathryn Humphreys, PhD

Associate Professor (615) 343-0379
Department of Psychology and Human Development k.humphreys@vanderbilt.edu
Vanderbilt University, Nashville, TN

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Tiffany Ho, PhDAssistant Professor
Department of Psychology
University of California-Los Angeles, Los Angeles, CA

(510) 520-9091 tiffany.ho@psych.ucla.edu

Gary Glover, PhD

Professor of Radiology Professor in Neurosciences & Biophysics Professor of Electrical Engineering & Psychology Director, Radiological Sciences Laboratory Stanford University, Stanford, CA

(650) 723-7577 gary.glover@stanford.edu