

# CONSTANZA M. VIDAL BUSTAMANTE

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## Education

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- 2019- Harvard University | Cambridge, MA, United States  
Ph.D. Student in Psychology (Advisors: Profs. Randy Buckner and Leah Somerville)
- 2012-2016 Harvard University | Cambridge, MA, United States  
A.B. in Psychology (Cognitive Neuroscience track)  
*Magna cum laude with highest honors in Psychology*

## Research Interests

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Stress-related changes in emotions and behavior, health, psychopathology, adolescence, mobile and wearable technology, deep digital phenotyping

## Selected Publications

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- in prep.* **Person-Specific Associations Between Stress, Mood, and Sleep and Implications for Clinical Outcomes.** Vidal Bustamante, C., Coombs, G., Rahimi-Eichi, H., Onnela, J.-P., Baker, J., & Buckner, R.
- in press* **Should Machines Be Allowed to “Read Our Minds”? Uses and Regulation of Biometric Techniques that Attempt to Infer Mental States.** Vidal Bustamante, C., Alama-Maruta, K., Ng, C., & Coppersmith, D. *MIT Science Policy Review*. <https://doi.org/10.38105/spr.qy2iibrk72>
- in press* **Toward a Demand-Driven, Collaborative Data Agenda for Adolescent Mental Health.** Verhulst, S., Vidal Bustamante, C., Carvajal, L., Cece, F., Requejo, J., Shaw, A., Winowatan, M., Young, A., Zahuranec, A. *Journal of Adolescent Health*. <https://doi.org/10.1016/j.jadohealth.2022.05.027>
- 2022 **Fluctuations in Behavior and Affect in College Students Measured Using Deep Phenotyping.** Vidal Bustamante, C.\*, Coombs, G.\*, Rahimi-Eichi, H., Mair, Patrick, Onnela, J.-P., Baker, J., & Buckner, R. L. *Scientific Reports*, 12(1932). <https://doi.org/10.1038/s41598-022-05331-7> \*Equal contribution.
- 2021 **Open-source Longitudinal Sleep Analysis from Accelerometer Data (DPSleep): Algorithm Development and Validation.** Rahimi-Eichi, H., Coombs, G., Vidal Bustamante, C., Onnela, J.-P., Baker, J., & Buckner, R. *JMIR MHealth and UHealth*. <https://doi.org/10.1101/2021.02.02.429455>
- 2021 **A Year in the Social Life of a Teenager: Within-Person Fluctuations in Stress, Phone Communication, and Anxiety and Depression.** Rodman, A., Vidal Bustamante, C., Flournoy, J., Coppersmith, D., Nook, E.C., Worthington, S., Mair, P., & McLaughlin, K. *Clinical Psychological Science*, 9(5). <https://doi.org/10.1177/2167702621991804>
- 2020 **Within-Person Fluctuations in Stressful Life Events, Sleep, and Anxiety and Depression Symptoms During Adolescence: A Multi-Wave Prospective Study.** Vidal Bustamante, C., Rodman, A., Flournoy, J., Mair, P., & McLaughlin, K. *Journal of Child Psychology and Psychiatry*, 61(10), 1116-1125. <https://doi.org/10.1111/jcpp.13234>
- 2020 **Use of Linguistic Distancing and Cognitive Reappraisal Strategies During Emotion Regulation in Children, Adolescents, and Young Adults.** Nook, E.\*, Vidal Bustamante, C.\*, Cho, H., & Somerville, L. *Emotion*, 20(4), 525–540. <http://dx.doi.org/10.1037/emo0000570> \*Equal contribution.
- 2019 **Development of Prefrontal Cortical Connectivity and the Enduring Effect of Learned Value on Cognitive Control.** Davidow, J., Sheridan, M., Van Dijk, K., Santillana, R., Snyder, J., Vidal Bustamante, C., Rosen, B., & Somerville, L. *Journal of Cognitive Neuroscience*, 31(1), 64-77. [https://doi.org/10.1162/jocn\\_a\\_01331](https://doi.org/10.1162/jocn_a_01331)

## Selected Research Presentations

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- 2021      **A Year (and a Pandemic) in the Life of a College Student: Fluctuations in Behavior and Affect in University Students Measured Using Deep Phenotyping.** *Blitz talk at McLean Hospital's Technology in Psychiatry Summit (held virtually).*
- 2021      **Fluctuations in Behavior and Affect in University Students Using Deep Phenotyping.** *Poster at Harvard University's Health Data Science Symposium (held virtually).*
- 2020      **Within-Person Associations Between Daily Sleep and Affect in Adolescence: Evidence from Actigraphy and Ecological Momentary Assessments.** *Poster at Society for Affective Science Conference (held virtually).*
- 2019      **Within-Person Fluctuations in Stressful Life Events, Sleep, and Anxiety and Depression Symptoms in a Year-Long Adolescent Study.** *Poster at Flux Developmental Cognitive Neuroscience Society Conference (New York, NY).*
- 2019      **Conducting Functional MRI Research with Children and Adolescents.** *Talk for the Fall 2019 Functional MRI Visiting Fellowship workshop offered by the Athinoula A. Martinos Center for Biomedical Imaging at Massachusetts General Hospital (Boston, MA).*
- 2019      **The Human Connectome Project in Development: Task-functional MRI Paradigms and Preliminary Data.** *Poster at Human Connectome Project Investigators Meeting (Bethesda, MD).*
- 2019      **Use of Linguistic Distancing and Cognitive Reappraisal Strategies During Emotion Regulation in Children, Adolescents, and Young Adults.** *Poster at Society for Affective Science Conference (Boston, MA).*
- 2018      **Mapping the Human Brain.** *Talk at Boston Museum of Science's Health Fair: Explore the Brain! (Boston, MA).*
- 2018      **Mapping Brain Development: Introducing the Human Connectome Project – Development.** *Talk for faculty members in the Psychology and Biology Departments, Pontificia Universidad Católica de Chile (Santiago, Chile).*

## Awards & Honors

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- 2022      Harvard Derek Bok Center Award for Excellence in Teaching (Spring 2022)
- 2022      Harvard Rand Fund for Innovation in Psychology Research Grant (PI, \$30,168)
- 2021      Harvard Derek Bok Center Award for Excellence in Teaching (Fall 2021)
- 2020      Harvard Foundations of Human Behavior Initiative Grant (PI, \$15,000)
- 2020      Harvard Stimson Grant (PI, \$1,000)
- 2016      Bachelor of Arts Magna Cum Laude with Highest Honors in Psychology  
Harvard Psychology Faculty Prize  
Best Poster Award, Harvard Conte Center's Undergraduate Poster Session
- 2015      Herchel Smith-Harvard Undergraduate Science Research Summer Fellowship
- 2014      Harvard Weissman International Summer Fellowship
- 2012-2016      Harvard University United World College Davis Scholarship

## **Teaching and Advising Experience at Harvard University**

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2022-	Statistics Consultant for Honors Thesis Students in Psychology
2021, 2022	Teaching Fellow for PSY 1900: Introduction to Statistics for the Behavioral Sciences
2021-	Concentration Advisor for Undergraduates in Psychology

## **Leadership and Volunteer Experience**

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2022-	Member of the Harvard Psychology Committee on Diversity, Inclusion, and Belonging
2020, 2021	Orientation Leader for incoming graduate students in Harvard Psychology department
2020-	Peer Mentor for graduate students in Harvard Psychology department
2021-	Mentor ("Big Sister") with the Big Sister Association of Greater Boston
2016-2019	Facilitator of several brain science outreach events through the Harvard Public Schools Partnerships
2011-	United World College (UWC) Alumna and Member of Chile's National Committee that selects and mentors new awardees of two-year scholarships at prestigious UWC schools worldwide
2013-2016	Vice President of the Harvard Association Cultivating Inter-American Democracy, an annual conference gathering 500+ high school students from across Latin America
2012	Lead Coordinator of Volunteers for youth leadership NGO Fundación Forja (Santiago, Chile)
2011	Community Legal Education Volunteer for NGO Bridges Across Borders: South East Asia (Chiang Mai, Thailand)