CONSTANZA M. VIDAL BUSTAMANTE

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Education

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

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

Selected Publications

in prep.   **Estimating Person-Specific Associations Between Daily Stress and Actigraphy-Based Sleep Duration from Intensive Longitudinal Data.**

2022   **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,* 3, 112-121. https://doi.org/10.38105/spr.qy2iibrk72

2022   **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, P., Onnela, J.-P., Baker, J., & Buckner, R. *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., 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., Dennison, M., 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

Selected Research Presentations

2022   **Continuous Examination of Real-World Stress and Response Using Deep, Dynamic Phenotyping**. Blitz talk at Harvard University's *Health Data Science Symposium* (Boston, MA). ***Submission among top scoring abstracts selected for oral presentation.*

2022   **Continuous Examination of Real-World Stress and Response Using Deep, Dynamic Phenotyping**. Poster at Harvard University's *Brains and Behavior in the Wild Symposium* (Boston, MA). ***Received best poster award.*

2022   **Continuous Examination of Real-World Stress and Response Using Deep, Dynamic Phenotyping**. Poster at *McLean Hospital's Technology in Psychiatry Summit* (held virtually).

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 Measured 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). *Submission selected for Poster Spotlight.*

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

2022   Harvard Derek Bok Center Award for Excellence in Teaching (Spring 2022)

2022   Harvard Rand Fund for Innovation in Psychology Research Grant ($30,168)

2021   Harvard Derek Bok Center Award for Excellence in Teaching (Fall 2021)

2020   Harvard Foundations of Human Behavior Initiative Grant ($15,000)

2020	Harvard Stimson Grant ($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 ($4,500)
2014	Harvard Weissman International Summer Fellowship ($7,000)
2012-2016	Harvard University United World College Davis Scholarship

Teaching and Advising Experience at Harvard University

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

2022-	Outreach Chair for Science Policy Group, Harvard Graduate School of Arts and Sciences
2022-	Member of Harvard Graduate Student Council's Health Advocacy Working Group
2022-	Founder and Co-President of Mentoring Group at Harvard Psychology department
2022-	Member of Outreach Subcommittee under Diversity, Inclusion, Belonging Committee at Harvard Psychology department
2020, 2021	Lead Organizer, orientation program for 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 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 Boarders: South East Asia (Chiang Mai, Thailand)