

DANIEL ROBLES, Ph.D.
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EDUCATION

University of Alberta
Ph.D. Program in Psychology (2023)
Concentration: Behavioral, Systems, and Cognitive Neuroscience

The City College of New York
M.A. Psychology (2017)

The City College of New York
B.A. Psychology (2011)

RESEARCH EXPERIENCE

Baker Laboratory for Cognitive Neuroimaging and Stimulation. Centre for Molecular and Behavioral Neuroscience, Rutgers University
Postdoctoral Associate (July 2023-present)
Primary Investigator: Travis Baker

AppLab, Department of Psychology, University of Alberta
Graduate research assistant (9/2017-2/2023)
Primary Investigator: Kyle Mathewson

Child Development Study. Center for Child Well-Being & Development, University of Zurich.
Research Member (9/2019-present)
Primary Investigator: Guilherme Lichand

Sophie Davis School of Biomedical Education, CUNY. NY.
Research assistant (1/2017-8/2017)
Primary Investigator: Philip Smith

Melara Lab, Department of Psychology, the City College of New York
Graduate research assistant/Coordinator (2014-2017)
Primary Investigator: Robert Melara

Translational research training in addictions for racial/ethnic minority students at City College of New York and Columbia University Medical Center.
Research Fellow (2014-2015)
Primary Investigator: Denise Hien

Department of Psychology, the City College of New York
Research Assistant (2013-2014)
Primary Investigator: Lesia Ruglass

HONORS AND AWARDS

- Canadian Psychological Association. Certificate of Academic Excellence 2023.
- University of Alberta Graduate Student Engagement Scholarship (2022)
- Mary Louise Imrie Graduate Student Award (2021)
- TRACC Alumni Travel Award (2021)
- University of Alberta Graduate Students Teaching Award (2020)
- Graduate Students' Association Academic Travel Grant (2018)
- University of Alberta Doctoral Recruitment Scholarship (2017)
- Psi Chi, The International Honor Society in Psychology (2011)
- Michael Steuerman Legacy Fund Scholarship. Bronx Community College (2009)

JOB-RELATED TRAINING

- Attended the Introductory Workshop on Computational Methods in Neuroscience in Lethbridge, Alberta (2018)
- Supervisory Environment, Health & Safety Professional Development program (2018)
- Tri-Council Policy Statement: Ethical Conduct for Research Involving Humans (TCPS 2: CORE) completion (2016)

TEACHING EXPERIENCE

Lecturer, Rutgers University

- Trends in Neuroscience (Spring 2026)

Guest Lecturer, Rutgers University

- Foundations of Neuroscience and Behavior (Fall 2023)
- Foundations of Neuroscience and Behavior (Fall 2024)
- Foundations of Neuroscience and Behavior (Spring 2025)

Assistant Lecturer, University of Alberta

- Psych 275: Brain and Behavior (Fall 2022)
- Psych 275: Brain and Behavior (Spring 2022)
- Psych 105: Basic Psychological Processes (Winter 2022)

Psychology Department, University of Alberta

Teaching assistant (9/2017-2021)

Adjunct Lecturer, The City College of New York

- Psychology 25400: Mind, Brain, and Experience (Fall 2025, Spring 2026)
- Psychology 35600: Adolescence & Youth (Spring 2015, Spring 2016, Summer 2016, Spring 2017, Summer 2017).
- Psychology 25300: Thinking, Knowing, and Remembering (Spring 2016, Fall 2016, Spring 2017)
- Psychology 37300: Neuropsychology (Spring 2017)
- Psychology 10200: Psychology in the Modern World (Fall 2015)
- Psychology 35000: Treatment of Substance Abuse I (Summer 2015)

Psychology Department, The City College of New York

Teaching assistant (2013-2015)

PEER-REVIEWED PUBLICATIONS

Shevorykin, A., Hyland, B. M., **Robles, D.**, Ji, M., Vantucci, D., Bensch, L., ... Sheffer, C. E. (2024). Tobacco use, trauma exposure and PTSD: a systematic review. *Health Psychology Review*, 18(4), 649–680.
<https://doi.org/10.1080/17437199.2024.2330896>

Mathewson KE, Kuziek JP, Scanlon JEM, **Robles D.** The moving wave: Applications of the mobile EEG approach to study human attention. *Psychophysiology*. 2024 Sep;61(9):e14603. doi: 10.1111/psyp.14603. Epub 2024 May 26. PMID: 38798056.

Baker, T. E., & **Robles, D.** (2023). Theta Burst Stimulation of the Hyperdirect Pathway Boosts Inhibitory Control and Reduces Craving and Smoking in Nicotine-Dependent Adults. *Biological Psychiatry: Cognitive Neuroscience and Neuroimaging*, 8(11), 1072-1074. <https://doi.org/10.1016/j.bpsc.2023.09.007>

Robles, D., Kuziek, J. W. P., Wlasitz, N. A., Bartlett, N. T., Hurd, P. L., & Mathewson, K. E. (2021). EEG in motion: Using an oddball task to explore motor interference in active skateboarding. *European Journal of Neuroscience*, n/a(n/a).
<https://doi.org/https://doi.org/10.1111/ejn.15163>

Leal Neto, O., Haenni, S., Phuka, J., Ozella, L., Paolotti, D., Cattuto, C., **Robles, D.**, &

Lichand, G. (2021). Combining Wearable Devices and Mobile Surveys to Study Child and Youth Development in Malawi: Implementation Study of a Multimodal Approach. *JMIR Public Health and Surveillance*, 7(3), e23154.
<https://doi.org/10.2196/23154>

PREPRINT/SUBMITTED PUBLICATIONS

Robles, D., Kuziek, J. W., Lai, J., Mazumder, R., Scanlon, J. E., & Mathewson, K. E. (2022). Surrounding Traffic Matters: Increases in Traffic Volume Are Related to Changes in EEG Rhythms in Urban Cyclists. *bioRxiv*, 2022-05.

Lichand, G., Leal Neto, O., Phuka, J., Chipojola, R., Laher, B., Enlow, M. B., **Robles, D.**, ... & Carneiro, P. M. (2022). The Early Childhood Development Replication Crisis, and How Wearable Technologies Could Help Overcome It.
<https://dx.doi.org/10.2139/ssrn.4162049>

SELECTED PRESENTATIONS

Gao, Y., Güth, M., Headley, D., **Robles, D.**, Zhang, E., Baker, T., (2025). Real-time modulation of reinforcement learning using closed-loop TMS-EEG. Poster presented at XXXX

Robles, D., (2025, Jan). Comparing the Effects of 3600 Pulses of 10-Hz TMS and cTBS on Reward Functioning in Smokers. Oral Presentation. 2025 NIH T-34 Winter Training Institute (WTI), New York, NY.

Gao, Y., **Robles, D.**, Zhang, E., Güth, M., Headley, D., Baker, T., (2024). Close-loop TMS-EEG Modulation of Reward-Related ERPs. Poster presented at XXXX

Baker, T.E., Reid, A., Cole, M.W., Zhang E., **Robles, D.**, Mill, R.D., Lalta, N.D., Güth, M., (2024). Quantifying and modulating reward circuit dysfunction in substance use disorders using a combination of human electrophysiology, neuroimaging, and robot-assisted TMS. Presented at the 6th International Brain Stimulation Conference, Kobe, Japan.

Robles, D., Zhang, E., Lalta, N., Baker, T., (2024). Comparing the Effects of 3600 Pulses of 10-Hz TMS and cTBS on Reward Functioning in Smokers. Poster Presented at NYC Neuromodulation Conference

Lalta, N.D., Zhang E., **Robles, D.**, Güth, M., Mill, R.D., Reid, A., Cole, M.W., Baker, T.E. (2024). Enhancing cognitive control functioning in nicotine users using individualized resting-state functional connectivity TMS targets. Presented at the Neuromodulation Conference in New York City, NY.

Zhang, E., Lalta, ND., **Robles, D.**, Güth, M.R., Reid, A., Mill, R.D., Cole, M.W., Baker,

- T.E. (2024) Determining the Optimal TMS Image-Based Target to Modulate Reward and Control Functioning in Nicotine Users. Poster Presented at NYC Neuromodulation Conference
- Robles, D.**, Mathewson, K.E. (2022 September). Increases in traffic volume are associated with measurable changes in EEG in urban cycling lanes. Poster presented at the 62nd Annual Meeting of the Society for Psychophysiological Research. Vancouver, BC. Canada
- Sheldon, S., **Robles, D.**, Mathewson, K.E. (2021 October). Decoding Covert Attention on an Orientation Perception Task from EEG Alpha Activity. Poster presented at the 61st Annual Meeting of the Society for Psychophysiological Research
- Robles, D.**, (2021, August). EEG on the go: Using novel approaches to study human attention in real-world environments. Oral Presentation given at the 2021 Sapiens Labs Virtual Symposium on EEG: Analytical Approaches and Applications. Online.
- Robles, D.**, (2021, April). EEG in Motion: Using an Oddball Task to Explore Motor Interference in Active Skateboarding. Oral Presentation given at the 2021 Royce-Harder Research Conference, Edmonton, AB. Canada.
- Robles, D.**, (2021, April). Mobile EEG: Contributions and Challenges to the Study of Human Attention. Oral Presentation given at the Department of Psychology Weekly Cognitive Seminar. University of Alberta. Edmonton, AB. Canada.
- Robles, D.**, (March 2021). Portable EEG and the Solution for Portable Neuroscience. Oral presentation given at the Brown Bag series. Center for Child Well-Being and Development. University of Zurich.
- Robles, D.**, Kuziek, J., Mazumder R., Lai, J., Mathewson, K.E. (2020, October). Differences in Traffic Conditions are Related to N1 Amplitude Changes During Cycling. Poster presented at the 60th Annual Meeting of the Society for Psychophysiological Research
- Robles, D.**, Wlasitz, N., Bartlett, N., Hurd, P., Mathewson, K.E. (2019, May). Brainwaves on a Skateboard: Exploring Laterality in Skateboarders using Electrophysiological and Behavioral Measures. Poster presented at the 37th Banff Annual Seminar in Cognitive Science, Banff, AB. Canada.
- Robles, D.** (2018, November). Getting on TRACC with a Research Career. Invited Speaker. Panel presentation for the Translational Research Training in Addictions for Racial/Ethnic Minorities at The City College of New York and Columbia University Medical Center. New York, NY. USA.
- Robles, D.**, Sheldon, S., Mathewson, K.E. (2018, October). Feedback Error-related Negativity as a Control Signal for the Attention System. Poster presented at the

58th Annual Meeting of the Society for Psychophysiological Research, Quebec City, Quebec, Canada.

Robles, D., Mathewson, K. E. (2018, May). Feedback Error-related Negativity as a Control Signal for the Attention System. Poster presented at the 37th Banff Annual Seminar in Cognitive Science, Banff, AB. Canada.

Robles, D., Mathewson, K. E. (2018, April). Feedback Error-related Negativity as a Control Signal for the Attention System. Oral Presentation given at the 2019 Royce-Harder Research Conference, Edmonton, AB. Canada.

Robles, D., Melara, R. D. (2018, February). Differences in alpha-related inhibitory control between smokers and ex-smokers. Poster presented at the 13th Covenant Health Research Day, Edmonton, AB. Canada.

Robles, D., Shevorykin, A., Melara, R. D. (2017, March). Attentional Differences in the Presence of Cigarette Cues among Smokers, Ex-smokers, and Non-smokers. Poster presented at the 2017 Joseph R. Royce conference, Edmonton, AB. Canada.

Shevorykin, A., **Robles, D.**, Baig, A., Dambreville, N., Ruglass, L. M., Melara, R. D. (2017, March). *The Effect of Childhood Abuse in Cigarette Smoking Behavior*. Poster to be presented at the 23rd Annual Meeting of the Society for Research on Nicotine and Tobacco, Florence, Italy.

Shevorykin, A., Baig, A., **Robles, D.**, Ruglass, L. M., Melara, R. D. (2016, April). *Attentional Bias in Individuals with Comorbid Cannabis Use Disorders and Tobacco Use*. Poster presented at the 23rd Annual Meeting of the Cognitive Neuroscience Society, New York, NY.

Robles, D., Shevorykin, A., Bhatti, M., Ovalles, M., Cabrera, J., Melara, R. D. (2016, March). *Attentional Differences in the Presence of Cigarette Cues among Smokers, Ex-smokers, and Non-smokers* Poster presented at the 22nd Annual Meeting of the Society for Research on Nicotine and Tobacco, Chicago, Illinois.

Shevorykin, A., Ruglass, L. M., Tsoi, F., Baig, A., Bibi, R., John, G., **Robles, D.**, Melara, R. D. (2015, May). *Psychological Factors Associated with Severity of Cannabis Use Disorder*. Poster presented at the 27th Annual Convention of the Association for Psychological Science, New York, NY.

Robles, D., Shevorykin, A., Melara, R. D. (2015, April). *ADHD Symptoms and Nicotine Dependence in Urban Populations*. Poster presented at the 4th International Congress of Dual Disorders, Barcelona, Spain.

Shevorykin, A., Ruglass, L. M., **Robles, D.**, Tsoi, F., Melara, R. D. (2015, April). *The Associations between Mood, Craving Level and Symptom Severity in People with*

Marijuana Use Disorder. Poster presented at the 4th International Congress of Dual Disorders, Barcelona, Spain.

Shevorykin, A., **Robles, D.**, Moses, J., Melara, R. D. (2014, November). *Cognitive Difficulties in Urban Population of Cigarettes Smokers*. Poster presented at the 44th Annual Meeting of the Society for Neuroscience, Washington, DC.

VOLUNTEER SERVICES

- Royce Harder Conference Organizing Committee. Edmonton, AB. (2022)
- Honours Seminar presenter. Applying to Grad School. UofA, Psychology Department. Edmonton, AB. (2021)
- Co-mentor, discussion panel leader: WISEST SET conference (Nov 2019)
- Member of the Graduate Psychology Association, Edmonton, AB. (2018 - 2022)
- Conference talk judge. Royce-Harder Research Conference. Edmonton, AB. (2021)
- Presenter. Science FUNdamentals FUNday, Edmonton, AB. (2018-2020)
- Presenter. Festival of Health (hosted by FoMD). UofA, Edmonton, AB. (2019)
- Undergraduate poster judge. Royce-Harder Research Conference. Edmonton, AB. (2019)
- Presenter. Undergraduate Psychology Association, Edmonton, AB. (2018)

ADDITIONAL SKILLS

Proficient with Excel, Word, PowerPoint, MATLAB, Python, R, STATA, SPSS, JASP, HTML, and Web design apps.

Fluent with Windows, Mac, and Linux-based operating systems.

LANGUAGE SKILLS

Language	Read	Write	Speak	Understand	Peer Review
English	Yes	Yes	Yes	Yes	Yes
Spanish	Yes	Yes	Yes	Yes	Yes
Portuguese	Yes	No	Yes	Yes	No