Taylor Heffer

ASSISTANT PROFESSOR

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Academic Appointments ___ Assistant Professor Oshawa, ON ONTARIO TECH UNIVERSITY 2024-present **Education and Training** Postdoctoral (NSERC) Fellow Cambridge, MA HARVARD UNIVERSITY 2022-23 PhD, Lifespan Development Psychology St. Catharines, ON **BROCK UNIVERSITY** 2017-22 MA, Lifespan Development Psychology St. Catharines, ON BROCK UNIVERSITY 2015-17 BA, Honors Psychology and Child and Youth St. Catharines, ON BROCK UNIVERSITY 2011-15 Honors and Awards _ **Academic and Research** Natural Sciences and Engineering Research Postdoctoral Fellowship Cambridge, MA HARVARD UNIVERSITY 2022 • Application ranked 1st in psychology Student Presentation Award (Second Place) Alberta, Canada **DEVELOPMENT CONFERENCE** 2022 Faculty of Social Science Research Assistantship **BROCK UNIVERSITY** Susan Sydor Graduate Scholarship BROCK UNIVERSITY 2022 Ontario Graduate Scholarship BROCK UNIVERSITY Ralph D. Morris Graduate Student Award BROCK UNIVERSITY 2019 Match of Minds BROCK UNIVERSITY 2019 Dean of Graduate Studies Excellence Scholarship **BROCK UNIVERSITY** 2018-20 Joseph-Armand Bombardier Canada Graduate (PhD) SOCIAL SCIENCES AND HUMANITIES RESEARCH COUNCIL 2017-20 Jack M. Miller Excellence in Research Award BROCK UNIVERSITY 2017 Distinguished Graduate Student Award MA and PhD BROCK UNIVERSITY 2017/20 Certificate of Academic Excellence (MA Thesis) CANADIAN PSYCHOLOGICAL ASSOCIATION 2017

Library Open Access Publishing Fund Brock University	2017
Ontario Graduate Scholarship Brock University	2016
Joseph-Armand Bombardier Canada Graduate Scholarship (MA) Social Sciences and Humanities Research Council	2015
Research Fellowship & Match Brock University	2015
Entrance Scholarship Brock University	2015
Ontario Graduate Scholarship (Declined) Brock University	2015
Leadership and Community Engagement	
Leadership and Community Engagement Scotiabank Graduate Award Brock University	2020/23
Scotiabank Graduate Award	2020/21
Scotiabank Graduate Award Brock University Barb Daly Excellence and Student Leadership	,
Scotiabank Graduate Award Brock University Barb Daly Excellence and Student Leadership Brock University Dr. Liette Vasseur Graduate Scholarship	2020

Publications

Refereed Published Academic Papers (19):

- 1. **Heffer, T.**, Van Noordt S.J.R., & Willoughby, T. (2023). Developmental trajectories of sensitivity to threat in children and adolescents predict larger medial frontal theta differentiation during response inhibition. *Social Cognitive and Affective Neuroscience*.
- 2. Shahid, H., **Heffer, T**., Borg, M. E., *Buma-Wiens, A., & Willoughby, T. (2022). Differentiating profiles of vaping, alcohol, and cannabis use among early adolescents. *The Journal of Early Adolescence*. https://doi.org/10.1177/02724316221116043
- 3. Willoughby, T., **Heffer, T**., Borg, M. E. (2022). Deliberate Self-injury in Children and Associations with Negative Adjustment. *JAMA Pediatrics*.
- 4. Van Noordt S.J.R., **Heffer, T.**, Willoughby, T. (2021). A developmental examination of medial frontal theta dynamics and inhibitory control. *NeuroImage*.
- 5. **Heffer, T.**, & Willoughby, T. (2021). Investigating the consistency of threat-related ERPs among children and adolescents. *Cognitive Affective Behavioral Neuroscience*.
- 6. Willoughby, T., **Heffer, T**., Van Noordt S.J.R., Desjardins, J., Segalowitz, S., Schmidt, L. (2021). An ERP investigation of children and adolescents' sensitivity to wins and losses during a peer observation manipulation. *Developmental Cognitive Neuroscience*.
- 7. Willoughby, T., **Heffer, T**., Good, M., Magnacca, C. (2021). Is adolescence a time of heightened risk taking? An overview of types of risk-taking behaviors across age groups. *Developmental Review*.
- 8. Willoughby, T., Dykstra, V.W., **Heffer, T.**, *Braccio., J. Shahid, H., (2021). A long-term study of what best predicts graduating from university versus leaving prior to graduation. *Journal of College Student Retention: Research, Theory & Practice.*. https://doi.org/10.1177/1521025120987993

- 9. **Heffer, T.**, *Lundale, C., Wylie, B.E., Willoughby, T. (2021). Investigating sensitivity to threat with the Behavioral Inhibition Scale (BIS) among children, adolescents and adults: The role of negatively-phrased questions. *Personality and Individual Differences*.
- 10. **Heffer, T.**, & Willoughby, T. (2021). A person-centered examination of emotion dysregulation, sensitivity to threat, and impulsivity among children and adolescents: An ERP study. *Developmental Cognitive Neuroscience.*
- 11. Willoughby, T., **Heffer, T.**, Dykstra, V.W., Shahid, H., *Braccio., J. (2020). A person-centred analysis of first-year university students: Associations with psychosocial adjustment across seven years and post-university outcomes. *Journal of Youth and Adolescence*. 49(12), 2459-2475.
- 12. **Heffer, T.**, & Willoughby, T. (2020). A longitudinal study investigating trajectories of sensitivity to threat and their association with alpha asymmetry among children and adolescents. *Developmental Cognitive Neuroscience*. 46, 100863. https://doi.org/10.1016/j.dcn.2020.100863
- 13. **Heffer, T.**, & Willoughby, T. (2020). Sensitivity to negative feedback among children and adolescents: An ERP study comparing developmental differences between high-worriers and low-worriers. *Cognitive, Affective, & Behavioral Neuroscience*, 20, 624-635. https://doi.org/10.3758/s13415-020-00791-8
- 14. **Heffer, T.**, Wylie, B.E, & Willoughby, T. (2019). An investigation of adolescents' reported and self-perceived risk-taking. *The Journal of Early Adolescence*, 40(6), 772–788.
- 15. **Heffer, T.**, Good, M., Daly, O., MacDonell, E., Willoughby, T. (2019). The longitudinal association between social media use and depressive symptoms among adolescents and young adults: An empirical reply to Twenge et al. (2018). *Clinical Psychological Science*, 7(3), 462-470.
 - This work is included as one of the most read articles in this journal in the last 6 months
- 16. **Heffer, T.**, & Willoughby, T. (2018). The role of emotion dysregulation: A longitudinal investigation of the interpersonal theory of suicide. *Psychiatry Research*, 260, 379-383.
- 17. **Heffer, T.**, & Willoughby, T. (2017). A count of coping strategies: A longitudinal study investigating an alternative method to understanding coping and adjustment. *PloS one*, 12(10).
- 18. Willoughby, T., **Heffer, T**., & Hamza C.A. (2015). The link between nonsuicidal self-injury and acquired capability for suicide: A longitudinal study. *Journal of Abnormal Psychology*, 1110-1115.
- 19. Hamza, C. A., Willoughby, T., & **Heffer, T**. (2015). Impulsivity and nonsuicidal self-injury: A review and meta-analysis. *Clinical Psychology Review*, 3813-24. doi:10.1016/j.cpr.2015.02.010.

Non-refereed publications:

1. Gallant, C., & **Heffer, T**. (2016). A Collaborative Approach to Graduate Training at Brock University. *Canadian Psychological Association*, Mind Pad.

Presentations

Invited Talks

Psychology Department Research Talk

Ontario Tech University

April 2023

Affective Neuroscience and Development Lab

HARVARD UNIVERSITY Feb 2021

Developing Brains in Context Lab

University of Oregon Nov 2020

Youth Engagement Committee

Brock University 2018/19/22

• Invited to discuss research and facilitate youth involvement in research

Panelist: Career Night

PSYCHOLOGY SOCIETY, BROCK UNIVERSITY

March, 2018

Symposiums

- 1. Symposium Chair & Speaker. Factors that affect social behavior among children, adolescents, and emerging adults with anxiety-related temperament styles. Development 2022. (Alberta, Canada)
 - Awarded 2nd best student talk

Conference Presentations

- 1. Flournoy, J.C., Baum G., **Heffer, T.**, Lama R., The Human Connectome Project in Development Consortium, Somerville, L.H. (2023, September). HCP-D: Cognitive Control Behavior in Adolescence and the Role of Reward. Research presented at FLUX Congress, Santa Rosa, CA.
- 2. **Heffer, T.**, Borg, M.E., Willoughby, T. (2023, April). "What are some of the things you are worried about?" An analysis of adolescents' open-ended responses of current worries. Research presented at the Society for Research on Adolescence, San Diego, CA.
- 3. Borg, M.E., **Heffer, T.**, & Willoughby, T. (2023, April). Investigating perceptions of the impact of the COVID-19 pandemic and associations with trajectories of wellbeing among adolescents. Flash talk presented at the meeting of Society for Research on Adolescence, San Diego, CA.
- 4. **Heffer, T.**, Omary, A., Flournoy, J.C., Baum, G.L., Barch D.M., HCP-D Consortium, Somerville, L.H. (2023, March). The impact of reward and punishment history on response inhibition from childhood to early adulthood. Research accepted to the Society for Affective Science Conference.
- 5. Omary, A., **Heffer, T.**, Flournoy, J. C., Baum, G. L., Curtis, M., Colich, N. L., Mair, P., Barch, D. M., HCP-D Consortium, & Somerville, L. H. (2023, April). Testing the mediating role of pubertal hormones on age-related changes and sex differences in adolescent behavioral inhibition and Activation. Research presented at the Social & Affective Neuroscience Society 2023 Conference.
- 6. **Heffer, T**., van Noordt, S.J.R., Willoughby, T. (2021). The role of medial frontal theta among children and adolescents with consistently high threat sensitivity. Research presented at the Virtual FLUX Congress
- 7. **Heffer, T.**, Willoughby, T. (2021, April). Investigating the consistency of threat-related ERP's among children and adolescents. Research presented to the Virtual Society for Research on Child Development Conference.
- 8. **Heffer, T.**, Willoughby, T. (2020, September). A person-centered examination of regulation, sensitivity to threat, and impulsivity among children and adolescents: An ERP study. Research accepted to the Virtual FLUX Congress.
- 9. **Heffer, T.**, Willoughby, T. (2020, canceled). Investigating Children and Adolescent Worriers' Neural Sensitivity to Negative Feedback: Comparing Pubertal Status and Grade Level. Research accepted to Society for Research on Adolescence Conference, San Diego, CA.
- 10. **Heffer, T.**, Willoughby, T. (2019, September). Right Alpha Activation Moderates the Stability of Punishment Sensitivity Over Time. Research presented at Society for Psychophysiological Research Conference, Washington, DC.
- 11. Willoughby, T., **Heffer, T**., van Noordt, S., Desjardins, J., Segalowitz, S., Schmidt, L. (2019, August). An ERP investigation of children and adolescents' sensitivity to wins and losses during a perceived peer observation manipulation. Research presented at the FLUX Congress, New York, New York.
- 12. **Heffer, T.**, Willoughby, T. (2019, August). Investigating ERP Consistency across Child and Adolescent Worriers in Tasks Measuring Sensitivity to Punishment. Research presented at the FLUX Congress, New York, New York.
- 13. **Heffer, T.**, Willoughby, T. (2019, March). An ERP Study Investigating Sensitivity to Punishment among High and Low Worriers. Research presented at the Society for Research on Child Development Conference, Baltimore, Maryland.
- 14. Wylie, B., **Heffer, T**., Willoughby, T. (2019, March). Adolescent Risk-Taking: A Comparison of Self-Reported Behaviors and Self-Perceptions. Research presented at the Society for Research on Child Development Conference, Baltimore, Maryland.

- 15. Ilieff, M., Hamza, C. A., Willoughby, T. & **Heffer, T**. (2019, March). Maladaptive and adaptive perfectionism and nonsuicidal self-injury. Poster presented at the International Society for the Study of Self-Injury.
- 16. **Heffer, T.**, Willoughby, T. (2018, May). Investigating the Role of Worry in Children and Adolescents: An EEG Study. Symposium presented at Development 2018 Conference, Brock University.
- 17. **Heffer, T.**, Willoughby, T. (2018, May). Worry, Sleep Problems and Alcohol Use: A Longitudinal Study. Research presented at Development 2018 Conference, Brock University.
- 18. Willoughby, T., Desjardins, J., Segalowitz, S., Schmidt, L., **Heffer, T**., Semplonius, T. (2018, May). An ERP Investigation of Children and Adolescents' Sensitivity to Wins and Losses during a Perceived Peer Observation Manipulation. Symposium presented at Development 2018 Conference, Brock University.
- 19. **Heffer, T.**, Willoughby, T. (2018, April). A Longitudinal Study of Emotion Regulation and Problem Behaviours. Research presented at Society for Research on Adolescence Conference, Minneapolis, Minnesota
- 20. **Heffer, T.**, Willoughby, T. (2017, May). The Role of Emotion Dysregulation: A Longitudinal Investigation of the Interpersonal Theory of Suicide. Research presented at Association for Psychological Science Conference, Boston, Massachusetts.
- 21. **Heffer, T.**, Willoughby, T. (2017, April). A Count of Coping Strategies: A Longitudinal Study Investigating Repertoire Richness and Adjustment. Research presented at Society for Research in Child Development Conference, Austin, Texas.
- 22. **Heffer, T.**, Willoughby, T. (2017, April). The Association between NSSI and Suicide Ideation: The role of Maladaptive Perfectionism. Research presented at Society for Research in Child Development Conference, Austin, Texas.
- 23. **Heffer, T.**, Willoughby, T., & Hamza C.A. (2016, March). The link between nonsuicidal self-injury and acquired capability for suicide: A longitudinal study. Research presented at the Society for Research on Adolescence Conference, Baltimore, Maryland.
- 24. **Heffer, T.**, Willoughby, T., (2015, April). Investigating Joiner's Theory of Suicide: Identifying Predictors of Suicide Ideation in a Sample of University Students. Annual Ontario Psychology Undergraduate Thesis Conference, London, Ontario, Canada

Teaching.

Instructor Positions

Data Science for Academic and Applied Research

Brock University (Undergraduate 4th year course)

Jan 2022

[R] is for research: A beginner's guide to using R

BROCK UNIVERSITY (4 WORKSHOPS HELD)

August 2022/23

Invited Guest Lectures

Brain-behavior and Adolescence

NORTH EASTERN UNIVERSITY (UNDERGRADUATE 3RD YEAR COURSE)

November 2023

Professional Issues

ONTARIO TECH UNIVERSITY (GRADUATE COURSE)

November 2023

Adolescence and Emerging Adulthood

WESLEYAN UNIVERSITY (UNDERGRADUATE 3RD YEAR COURSE)

April 2023

Data Science for Academic and Applied Research

Brock University (Undergraduate 4th year course)

Nov 2020

Adolescent Development

BROCK UNIVERSITY (UNDERGRADUATE 3RD YEAR COURSE)

March 2019

Other Teaching Activities

Data Science for Academic and Applied Research

APPRENTICESHIP AT BROCK UNIVERSITY (UNDERGRADUATE 4TH YEAR)

Jan 2020/21

Teaching Assistantships

BROCK UNIVERSITY

- PSYC 4P08: Data Science for Academic and Applied Research (2020/21)
- PSYC 2P12: Lifespan Development (2015/18/19)
- PSYC 4P07: Transition to workplace (2018)
- PSYC 3P39: Statistics (2016/17)
- PSYC 3P18: Adolescent Development (2016)
- PSYC 3P77: Social Development (2015)

Project Teach

ANDL, HARVARD UNIVERSITY 2022

• Co-created and taught a seminar for 7th grade students on developmental cognitive neuroscience topics

Resiliency Class: Brock University

Namibia, Africa 2013

• Created and taught lessons in Math/English to grades 8-12 for three weeks

Mentoring_

Undergraduate Students

HARVARD UNIVERSITY

- Jadyn Matthews (Honors thesis)
- Nicole Uribe (Research Assistant)

BROCK UNIVERSITY

- Cody Ellis (Honors thesis)
- Annelise Wiens (Honors thesis & Independent study)
- Joelle Braccio (Independent study)
- · Carly Lundale (Honors thesis & Independent study)

Honors & Distinctions Awarded to Mentees

Faculty of Social Science Student Research Award

Annelise Wiens, Brock University 2021

Honors thesis: Certificate of Excellence

Carly Lundale, Canadian Psychological Association 2020

Knowledge Mobilization

Community Research Talk

PATHSTONE MENTAL HEALTH 2019

• presented research to over 100 staff at Pathstone Mental Health

Infographics

Brock Healthy Youth Project Partners (e.g., WHO; UNICEF, Mental Health Commission of Canada; Niagara

REGION SCHOOL BOARD)

Media Interviews

HEFFER ET AL., 2019; CLIN.PSYC.SCI. 2019

- The results from one of my first-author publications was distributed widely and received extensive media attention, as follows:
 - Association for Psychological Science. (2019, February 27). Longitudinal Data Show No Evidence of Teens' Social Media Use Leading to Depression. Retrieved from https://www.psychologicalscience.org/observer/longitudinal-data-show-no-evidence-of-teens-social-media-use-leading-to-depression (also featured in Science Daily)
 - Psychology Today. (2019, February 22). Is Tech Really Hurting Teens?[Press release]. Retrieved from: https://www.psychologytoday.com/us/blog/brainstorm/201902/is-tech-really-hurting-teens.
 - Brock News. (2019, February 14). Brock researchers find no evidence social media use predicts future depression. [Press release]. Retrieved from: https://brocku.ca/brock-news/2019/02/brock-researchers-find-no-evidence-social-media-use-predicts-future-depression.
 - Also distributed in Curação Chronicle, Psych Central, Medical News Today, Drugs.com, Consumer Affairs; Daily Mail, The Times, etc.

Introduction to fMRI CENTER FOR BRAIN SCIENCE, HARVARD 2022 Bystander intervention training HARVARD UNIVERSITY Using R for Reproducible Research Course BROCK UNIVERSITY 2021 Global R Studio Conference VIRTUAL Advanced R workshop: A Tidyverse Language Perspective HARVARD'S WOMEN IN PSYC **ARGH Coding Club** INFORMAL R USERS GROUP AT BROCK UNIVERSITY 2019/20 Datathon R Workshop **BROCK UNIVERSITY** 2019 **EEG Workshop BROCK UNIVERSITY** 2017-19 • One-week workshop focusing on EEG analysis Impedance Workshop MINDWARE TECHNOLOGIES, OHIO 2018 · Two-day workshop on data collection and data cleaning Data Visualization and Programing Workshop **BROCK UNIVERSITY** 2018 • Two-day workshop using Python for data visualization Introduction to Computer Programming for Experimental Psychology BROCK UNIVERSITY (GRAD-LEVEL COURSE) 2018 · Introduction to MATLAB programming language TA Advanced Certificate in Teaching and Learning in Higher Education CENTRE FOR PEDAGOGICAL INNOVATION, BROCK UNIVERSITY 2017 TA Certificate in Teaching and Learning in Higher Education CENTRE FOR PEDAGOGICAL INNOVATION, BROCK UNIVERSITY 2016 Longitudinal Data Analysis BROCK UNIVERSITY (GRAD-LEVEL COURSE) 3-day R Workshop BROCK UNIVERSITY 2015 Service Mentorship meetups (Committee Member) HARVARD UNIVERSITY 2022-23 **Undergraduate Workshops BROCK UNIVERSITY** 2016-21 · Created and facilitated annual workshops (e.g., Thinking about Grad school?; Getting Involved in Research; External Scholarship Applications) Psychology Social Committee (Committee Member) BROCK UNIVERSITY 2017-22 **Brock University Featured Graduate Student** BROCK UNIVERSITY 2020 Development 2018 Psychology Conference (Volunteer) **BROCK UNIVERSITY**

Research and Teaching Development

Psychology Department Recruitment Group (Committee Member)	
Brock University	2017-18
Psychology Social Committee (Graduate Student Representative)	
Canadian Psychological Association	2016-19
Psychology Graduate Committee (Graduate Student Representative)	
Brock University	2016-17
Recruitment Events (Graduate Student Volunteer)	
Brock University	2016-19
Psychology Department Committee (Graduate Student Representative)	
Brock University	2015-16