

Taigan L. MacGowan

Curriculum Vitae

Department of Psychology, Queen's University

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ACADEMIC WORK EXPERIENCE

Postdoctoral Fellow 2021-present

Department of Psychology
Queen's University, Kingston, ON
Advisor: Valerie A. Kuhlmeier, PhD

Sessional Faculty Member 2020-present

Department of Psychology, Neuroscience, and Behavior
Department of Health, Aging, and Society
McMaster University, Hamilton, ON

EDUCATION

PhD in Psychology 2016-2021

McMaster University, Hamilton, ON
Advisor: Louis A. Schmidt, PhD
Dissertation: Shyness and social cognitive processes in early childhood:
Biology, heterogeneity, and development

Bachelor of Science, First Class Honours in Psychology 2012-2016

Dalhousie University, Halifax, NS
Advisors: Richard E. Brown, PhD & Tamara B. Franklin, PhD
Honours Thesis: Aggression and social interaction in the 5xFAD mouse model
of Alzheimer's disease

PUBLICATIONS

Journal Articles

MacGowan, T. L., Mirabelli, J., Obhi, S. S., & Schmidt, L. A. (Accepted). Observed behavioral shyness leads to more automatic imitation in early childhood. *Developmental Psychobiology*.

MacGowan, T. L., Colonnese, C., Nikolic, M., & Schmidt, L. A. (2022). Expressions of shyness and theory of mind in children: A psychophysiological study. *Cognitive Development*, *61*, 101138.

MacGowan, T. L., Tasker, S. L., & Schmidt, L. A. (2021). Differences in established joint attention in hearing-hearing and hearing-deaf mother-child dyads: Associations with social competence, settings, and tasks. *Child Development*, *92*(4), 1388-1402. doi: 10.1111/cdev.13474

MacGowan, T. L. & Schmidt, L. A. (2021). Helping as prosocial practice: Longitudinal relations among children's shyness, helping behavior, and empathic response. *Journal of Experimental Child Psychology*, 209, 105154. doi: 10.1016/j.jecp.2021.105154

MacGowan, T. L. & Schmidt, L. A. (2021). Preschoolers' social cognitive development in the age of screen time ubiquity. *Cyberpsychology, Behavior, and Social Networking*, 24(2), 141-144. doi: 10.1089/cyber.2020.0093

MacGowan, T. L. & Schmidt, L. A. (2021). Getting to the heart of childhood empathy: Relations with shyness and respiratory sinus arrhythmia. *Developmental Psychobiology*, 63(7), e22035. doi: 10.1002/dev.22035

MacGowan, T. L. & Schmidt, L. A. (2020). Shyness, aggression, and empathy in children of shy mothers: Moderating influence of children's psychophysiological self-regulation. *Developmental Psychobiology*, 62(3), 324-338. doi: 10.1002/dev21918

Thompson, J., Drysdale, M., Baimel, C., Kaur, M., **MacGowan, T. L.**, Pitman, K. A., & Borgland, S. L. (2017). Obesity-induced structural and neuronal plasticity in the lateral orbitofrontal cortex. *Neuropsychopharmacology*, 42, 1480-1490. doi: 10.1038/npp.2016.284

Book Chapters

(* indicates equal contributions)

*Hassan, R., ***MacGowan, T. L.**, *Poole, K. L., & Schmidt, L. A. (2021). Evolutionary and neuroscientific perspectives on adaptive shyness. In Coplan, R., Bowker, J., & Nelson, L. (Eds.), *Handbook of Solitude: Psychological Perspectives on Social Isolation, Social Withdrawal, and Being Alone* (2nd Edition, pp. 16-30). New York: John Wiley & Sons.

Published Abstracts

MacGowan, T. L., Brown, R. E., & Franklin, T. B. (2016). Social behaviors in the 5XFAD mouse model of Alzheimer's Disease. *Alzheimer's and Dementia*, 12, 626.

Forthcoming Publications

MacGowan, T. L. & Schmidt, L. A. (Invited Revision, Child Psychiatry and Human Development). Shy adults experience more internalizing behaviors and social problems than shy children.

MacGowan, T. L. & Schmidt, L. A. (In prep.). Social cognitive development in children with sensory impairments. In Schmidt, L. A. & Burack, J. (Eds.), *Personality and Socioemotional Development Across Marginalized and Special Populations*. Springer Publishers.

MacGowan, T. L., Oliver, A., & Kuhlmeier, V. A. (In prep.). Infants on screens: A literature review.

MacGowan, T. L. & Schmidt, L. A. (In prep.) Shyness, sociability, and social cognition in young adults.

MacGowan, T. L., Hall, G. B., Rutherford, M. D., & Schmidt, L. A. (In prep.). The role of opponent processes in the relation between behavioral avoidance and social internalizing.

McVey Neufeld, S. F., **MacGowan, T. L.,** & Schmidt, L. A. (In prep.) Siblings at home: Moderating influence of sibling presence on the relation between problem behaviors and Theory of Mind in early childhood.

AWARDS, SCHOLARSHIPS, AND FUNDING

Social Sciences and Humanities Research Council of Canada (SSHRC) Postdoctoral Fellowship (\$90,000)	2021-2023
International Society for Developmental Psychobiology Student Abstract Award (\$145 USD)	2021
Martin Daly & Margo Wilson Ontario Graduate Scholarship (\$5,000)	2020-2021
Ontario Graduate Scholarship (\$10,000)	2020-2021
Ontario Graduate Scholarship (\$15,000)	2019-2020
McMaster Graduate Scholarship (\$12,500)	2018-2019
Social Sciences and Humanities Research Council of Canada (SSHRC) Michael Smith Foreign Study Supplement (\$6,000)	2018
McMaster University Psychology, Neuroscience, and Behaviour Travel Award (\$420)	2018
Social Sciences and Humanities Research Council of Canada (SSHRC) Master's Fellowship (\$17,500)	2017-2018
McMaster Graduate Scholarship (\$12,364)	2016-2017
Alzheimer's Association International Society to Advance Alzheimer's Research and Treatment (<i>ISTAART</i>) Student Volunteer Award and Travel Fellowship (\$1,300)	2016

PRESENTATIONS

National & International Conference Presentations

MacGowan, T. L., Obhi, S. S., & Schmidt, L. A. (2021, April). *Observed behavioral shyness leads to more automatic imitation in early childhood.* Talk given by TLM at Society for Research in Child Development Biennial Meeting 2021, Held Virtually.

- MacGowan, T. L. & Schmidt, L. A.** (2020, October). *Does low physiological self-regulation amplify nervous behavior in temperamentally shy children?* Talk given by TLM at International Society for Developmental Psychobiology Annual Meeting 2020, Washington, DC [Held virtually due to COVID19].
- MacGowan, T. L. & Schmidt, L. A.** (2019, October). *Shyness and aggression in the early school age years: The role of social cognitive ability.* Poster presented at Society for Research in Psychopathology Conference 2019, Buffalo, NY.
- MacGowan, T. L. & Schmidt, L. A.** (2019, March). *Empathy-related behaviors in shy children: The role of physiological reactivity.* Poster presented at Society for Research in Child Development Conference 2019, Baltimore, MD.
- MacGowan, T. L. & Schmidt, L. A.** (2018, July). *Maternal shyness and self-regulation differentially predict empathic concern in 6-year-old children.* Poster presented at Human Behavior and Evolution Society Conference 2018, Amsterdam, Netherlands.
- MacGowan, T. L. & Schmidt, L. A.** (2018, June). *Exploring relations between social inhibition and empathy in preschool children: The influence of Theory of Mind.* Poster presented at Jean Piaget Society Conference 2018, Amsterdam, Netherlands.
- MacGowan, T. L. & Schmidt, L. A.** (2018, May). *The role of social inhibition in the relation between empathy and Theory of Mind in 6-year-old children.* Poster presented at Development 2018, St. Catharines, ON.
- MacGowan, T. L. & Schmidt, L. A.** (2017, May). *A preliminary examination of Theory of Mind ability and temperament in preschoolers.* Poster presented at Association for Psychological Science conference 2017, Boston, MA.
- MacGowan, T. L., Fertan, E., Torres Munoz, P., Brown, R. E., & Franklin, T. B.** (2017, May). *The Odour-Plus Maze: A new behavioral test of odour preference in mice.* Poster presented at Canadian Association for Neuroscience conference 2017, Montreal, QC.
- MacGowan, T. L., Brown, R. E., & Franklin, T. B.** (2016, July). *Social behaviors in the 5xFAD mouse model of Alzheimer's disease.* Poster presented at Alzheimer's Association International Conference 2016, Toronto, ON.
- Brown, R. E. & MacGowan, T. L.** (2015, May). *Le Gros Clark versus Zuckerman: The Australopithecine Controversy.* Talk given by REB at Federation of European Neuroscience Societies "History of Understanding of the Cerebral Cortex" Seminar, Oxford, UK.

In-House Conference Presentations

- MacGowan, T. L.,** Tasker, S. T. & Schmidt, L. A. (2020, May). *The relation between joint attention and social competence in hearing mother-hearing toddler and hearing mother-deaf toddler dyads.* Poster accepted for presentation at McMaster University Psychiatry Research Day 2020, Hamilton, ON [Cancelled due to COVID19].
- MacGowan, T. L. &** Schmidt, L. A. (2019, May). *Moderate respiratory sinus arrhythmia levels predict lower affective empathy in children.* Poster presented at McMaster University Psychiatry Research Day 2019, Hamilton, ON.
- MacGowan, T. L. &** Schmidt, L. A. (2018, May). *Self-regulation and maternal shyness differentially predict empathic concern in young children.* Poster presented at McMaster University Psychiatry Research Day 2018, Hamilton, ON.
- MacGowan, T. L. &** Schmidt, L. A. (2017, December). *Sociable children with better Theory of Mind reasoning show greater empathic understanding.* Poster presented at McMaster University Psychology, Neuroscience, and Behaviour Research Day 2017, Hamilton, ON.
- MacGowan, T. L. &** Schmidt, L. A. (2017, May). *A preliminary examination of Theory of Mind ability and temperament in preschoolers.* Poster presented at McMaster University Psychiatry Research Day 2017, Hamilton, ON.
- MacGowan, T. L.,** Brown, R. E., & Franklin, T. B. (2016, May). *Social behavior and aggression in the 5xFAD mouse model of Alzheimer's disease.* Talk given by TLM at Dalhousie University Graham Goddard In-House Conference, Halifax, NS.

Invited Lectures

- MacGowan, T. L.** (2018, June). *Relations between maternal shyness and childhood outcomes.* Invited talk at University of Amsterdam Parenting and Child Psychopathology Research Group Meeting, Amsterdam, Netherlands.
- MacGowan, T. L.** (2018, June). *Relations among shyness and social cognitive development in preschool-aged children.* Invited talk at University of Amsterdam Child Development Department Meeting, Amsterdam, Netherlands.

TEACHING

Undergraduate Courses

All courses were independently developed

SOCPSY 2F03: *Psychology of Close Relationships*

W2022

150 students, 2 TAs

McMaster University, Department of Health, Aging, and Society

Undergraduate Courses Continued

PSYCH 3MT3: *Psychometrics* F2021
 120 students, 3 TAs
 McMaster University, Department of Psychology, Neuroscience, and Behaviour

PSYCH 2AA3: *Child Development* S2020
 160 students, 1 TA
 McMaster University, Department of Psychology, Neuroscience, and Behaviour

Guest Lectures

Lab structure and how to get to where you want to be 2020
 PNB 2XF3: Perspectives in Psychology, Neuroscience, and Behaviour
 McMaster University, Department of Psychology, Neuroscience, and Behaviour

Prosocial behaviours in early childhood 2020
 PSYCH 3JJ3: Social-Emotional Development
 McMaster University, Department of Psychology, Neuroscience, and Behaviour

Empathy in developing children 2019
 PSYCH 3AB3: Adolescent Psychology
 McMaster University, Department of Psychology, Neuroscience, and Behaviour

Teaching Assistantships

All completed at McMaster University

HUMBEHV 2AP3: *Introduction to Applied Psychology* F2021
 PSYCH 2F03: *Personality* S2021
 PSYCH 3AB3: *Adolescent Psychology* W2019, W2020, W2021
 PSYCH 3JJ3: *Social-Emotional Development* F2020
 PSYCH 2GG3: *Learning, Measuring, and Shaping Behaviour* F2020
 PSYCH 2NF3: *Basic and Clinical Neuroscience* F2019
 PSYCH 3B03: *Special Populations* F2016, F2019
 PSYCH 4D09: *Senior Honours Thesis* F2018
 PSYCH 3F03: *Evolution and Human Behaviour* W2018
 HUMBEHV 4Q03: *Senior Library Study* F2017
 PSYCH 3CD3: *Intergroup Relations* W2017

Teaching Interests

<i>Abnormal Psychology</i>	<i>Independent Research</i>	<i>Psychology of Gender</i>
<i>Adolescent Psychology</i>	<i>Infancy</i>	<i>Psychophysiology/Psychobiology</i>
<i>Developmental Psychology</i>	<i>Intergroup Relations</i>	<i>Psychometrics</i>
<i>Descriptive Statistics</i>	<i>Motivation and Emotion</i>	<i>Research Methods</i>
<i>Developmental Psychopathology</i>	<i>Personality</i>	<i>Scientific Writing</i>
<i>Evolution and Human Behavior</i>	<i>Psychology 101</i>	<i>Social Cognition</i>
<i>Human Sexuality</i>	<i>Psychology of Close Relationships</i>	<i>Social Psychology</i>

RESEARCH SUPERVISION

Co-Supervision with Dr. Louis A. Schmidt at McMaster University

Honours Thesis Students

Rachel Scott		2021-2022
Samantha Myers	(currently research assistant at Dalhousie University)	2019-2020
Angela Luo		2018-2019
Natalie Stearns, MSc	(currently project coordinator at CAMH)	2017-2018

Independent Study Project Students

Rachel Scott		2021
Erica Rodrigues	(currently graduate student at Ryerson University)	2019-2020
Venezia Prochilo	(currently B.Ed student at Queen’s University)	2019-2020
Soyoung Jung	(currently graduate student at McMaster University)	2019
James Mirabelli	(currently graduate student at McMaster University)	2018-2019
John Cyfko	(currently graduate student at McGill University)	2018-2019
Natalie Stearns, MSc	(currently project coordinator at CAMH)	2016-2017

Summer Research Students

Alexander Greenberg		2017
Ann Mills	(currently graduate student at York University)	2017
Zahra Khalesi	(currently graduate student at McMaster University)	2017

Volunteers

Katrina Abela	(currently graduate student at Wilfred Laurier University)	2019-2020
Angela Luo		2019
Alyssa Mueller	(currently graduate student at Western University)	2018-2019
Danielle Love		2018-2019

Co-Supervision with Dr. Richard E. Brown at Dalhousie University

Research Intern

Vivian Salazar Roche		2016
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Volunteers

Antonia Paquin		2016
Talal Alumri		2016
Olivia Piccolo		2015-2016
Alexis Wheeler		2015-2016
Lauren Runnalls		2014-2015

Co-Supervision with Dr. Tamara B. Franklin at Dalhousie University

Volunteers

Paula Torres Munoz		2015-2016
Zach Doucet		2015-2016

PROFESSIONAL SERVICE

Ad hoc Manuscript Reviewing

Child Psychiatry and Human Development
Developmental Psychobiology (co-reviewed)
Infancy
Journal of Experimental Child Psychology
Journal of Integrative Neuroscience
Social Development (co-reviewed)

Professional Affiliations (Past and Present)

Association for Psychological Science (APS)
International Society for Developmental Psychobiology (ISDP)
Society for Research in Child Development (SRCD)

TRAINING

Statistical and Methodological Training

Introduction to Structural Equation Modelling. Given by Drs. Dan Bauer & Patrick Curran at CenterStat, Delivered Virtually. (24 hours) 2021

Introduction to High-Frequency Heart Rate Variability. Given by Drs. Gary Bernston & Greg Norman at Mindware, Delivered Virtually. (1.5 hours) 2021

Statistics and Methods Workshop: Agent-Based Modeling. Given by Dr. Dan Conroy-Beam at Human Behavior and Evolution Society Conference, Amsterdam, Netherlands. (2 hours) 2018

Introduction to Noldus Observer XT. Training by Drs. Cristina Colonesi & Milica Nikolic at University of Amsterdam, Amsterdam, Netherlands. (20 hours) 2018

Psychology, Neuroscience, and Behaviour R Workshop. Given by Dr. Maria D'Angelo at McMaster University, Hamilton, Ontario. (10 hours) 2017

Introduction to Heart Rate Variability. Given by Drs. Gary Bernston & Greg Norman at Mindware, Delivered Virtually. (1 hour) 2017

Other Professional Training

Reviewing in the Sciences. Clarivate Web of Science Academy, Delivered virtually. (1.5 hours) 2021

Sexual Violence Fundamentals for Faculty. Given by Dr. Alan Berkowitz and McMaster University Equity and Inclusion Office, Hamilton, Ontario. (2 hours) 2021

Healthy Boundaries and Professionalism for Faculty. Given by Dr. Alan Berkowitz and McMaster University Equity and Inclusion Office, Hamilton, Ontario. (2 hours) 2021

Other Professional Training Continued

Anti-Oppression and Pedagogy Teaching Assistant Training. McMaster University, Hamilton, Ontario. (5 hours) 2021

American Sign Language 102. Canadian Hearing Services, Hamilton, Ontario. (30 hours) 2020

American Sign Language 101. Canadian Hearing Services, Hamilton, Ontario. (30 hours) 2019

Mental Health First Aid. Mental Health Commission of Canada, Hamilton, Ontario. (15 hours) 2018

Violence and Harassment Prevention in the Workplace. McMaster University, Hamilton, Ontario. (1 hour) 2017

Academic Research Integrity & Ethics. School of Graduate Studies, McMaster University, Hamilton, Ontario. (2 hours) 2016

Accessibility for Ontarians with Disabilities Act (AODA). School of Graduate Studies, McMaster University, Hamilton, Ontario. (1 hour) 2016

Laboratory Safety and Animal Husbandry Training

Rat Husbandry, Handling, and Procedures. Animal Health Unit, University of Calgary. Calgary, Alberta. (5 hours) 2015

Mouse Husbandry, Handling, and Procedures. Animal Health Unit, University of Calgary. Calgary, Alberta. (5 hours) 2015

Institutional Animal User Training Program. Animal Health Unit, University of Calgary. Calgary, Alberta. (5 hours) 2015

Introduction to Biosafety. Animal Health Unit, University of Calgary. Calgary, Alberta. (2 hours) 2015

WHMIS and Safety for Laboratories. Animal Health Unit, University of Calgary. Calgary, Alberta. (2 hours) 2015

The Mouse: Recommended Technical Procedures. Dalhousie University Veterinarian's Office. Halifax, Nova Scotia. (4 hours) 2014

Introduction to Laboratory Animal Care. Dalhousie University Veterinarian's Office. Halifax, Nova Scotia. (6 hours)

2014

KNOWLEDGE TRANSLATION

Founding Coordinator, Canadian Association for Girls in Science (CAGIS) Guelph Chapter

- Responsible for recruiting and maintaining graduate student and community volunteers
- Monthly, age-appropriate science-based activity days for young girls as well as non-binary and trans youth

The Shy Child (May 2022). Talk to be given for 'Growing Up Human' series at Frontenac Kingston Public Library organized by Queen's University Child and Adolescent Research Group.

Interview with Taigan L. MacGowan on Child Development article (December 2020). Interview for Society for Research in Child Development (SRCD) YouTube channel, featured on SRCD monthly newsletter [<https://www.youtube.com/watch?v=dYR2B7lSiJY&t=2s>]