

GABRIEL BLANCO-GOMEZ
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EDUCATION

Doctor of Philosophy, Integrated Program in Neuroscience, McGill University Expected June 2026
Current cumulative GPA 4.00/4.00.

Master of Science, Integrated Program in Neuroscience, McGill University December 2022
Cumulative GPA 4.00/4.00.

Bachelor of Science, Neuroscience and French Linguistics, University of Toronto June 2020
Cumulative GPA 3.92/4.00.

RESEARCH EXPERIENCE

Student Researcher

Montreal Neurological Institute, Montreal, Canada

Supervisor: Mayada Elsabbagh 2020-Present

- Assisted with the analysis of EEG data in the context of a large-scale cohort of infants at risk for Autism Spectrum Disorder (EEG-IP).
- Core member of the Experimental Group for the Quebec 1000 Families (Q1K) Platform, a province-wide initiative across four major Quebec hospitals creating an open-science repository for 1,000+ participants with autism and related neurodevelopmental conditions.
- Led task development and validation of a multimodal battery (EEG, Eye-tracking, MRI) now deployed across sites and contributed to an open-science toolbox and preprocessing pipeline.
- Published studies using novel computational approaches to characterize language in autism and infants.

Visiting Researcher

Hamamatsu University School of Medicine, Hamamatsu, Japan

Supervisor: Atsushi Senju February 2023-May 2023

- Worked on the development of integrated EEG and eye-tracking systems (SR Research).
- Presented new findings at the Hamamatsu University School of Medicine.

Research Assistant

Computation and Psycholinguistics Laboratory, Toronto, Canada

Supervisor: Blair Armstrong 2018-2020

- Ran behavioural experiments in a laboratory setting, helping with recruitment and data entry.
- Helped develop a new EEG hyperscanning methodology which resulted in a peer-reviewed publication.
- Assisted in the planning, collection and analysis of a large-scale online word association project in Spanish (nearly 20,000 participants) and developed various models to represent complex semantic networks. Presented results at multiple conferences.

ACADEMIC AWARDS

- Winner at the McGill 3MT competition 2025 and 2026 (1000\$ CAD)
- National winner of the *SciencePop* public speaking competition 2024 (1500\$ CAD)
- 2nd place at Annual Effervescence National 3-minute thesis competition 2022
- Joan & Warren Chippindale Award from the Montreal Neurological Institute 2021 (1500\$ CAD)
- IPN Recruitment award July 2020 (\$4000 CAD)
- Best student talk at the Annual Neurosymposium conference 2021
- Ontario Modern Language Teachers' Association Toronto Award 2019-2020 (1,128\$ CAD)
- Laure Rièse Scholarship for academic excellence 2018 (\$2000 CAD)
- Two-time recipient of the Muriel McCuaig Memorial Scholarship (2017 & 2019) (\$1000 CAD each)
- Tom Leon Student Scholarship for community service and academic excellence 2016 (\$2000 CAD)
- President's Entrance Scholarship 2016 to incoming students (\$2000 CAD)

TRAVEL AWARDS

- Federation of European Neuroscience Societies (FENS) Junior Scholar program 2025 (1000\$ EUR)
- International Society for Autism Research (INSAR) Student and Trainee Award 2023 (1000\$ EUR)
- Graduate Mobility Award for International Training 2023 (2000\$ CAD)
- Post Graduate Student Society Conference Travel Award 2022 (500\$ CAD)
- Quebec Autism Research Training Passport for research in Japan 2021 (2,000\$ CAD)
- ASSU Undergraduate Conference Travel Award 2019
- The John Hamilton Watson Award for International Study 2019 (\$500 CAD)
- Anne Lawrence Scholarship to pursue studies at the Touraine Institute in France 2018

RESEARCH FUNDING AWARDS

- Doctoral training scholarship from the Fonds de recherche du Québec 2025 (66,000 CAD).
- McGill Finalist for the Vanier Scholars Federal Scholarship 2024
- Jeanne-Timmins Costello Award 2021 (10,000\$ CAD)
- Québec Autism Research Training (QART) Fellowship 2021 (20,000\$ CAD)
- The Dr. Lorus J Milne and Dr. Margery J Milne Award for research 2020 (\$4000 CAD)
- University of Toronto Undergraduate Research Award 2020 (UTEA) (\$6000 CAD)
- NSERC Undergraduate Research Award (USRA) 2020 (5,162\$ CAD)
- Toronto Center for International Experience Summer Research Award 2019 (\$5000 CAD)

PRESENTATIONS

Posters

- Ong, Melanie., **Blanco-Gomez, G.**, O'Reilly, C., Desjardins, J. A., Huberty, S., Hebert Lalonde, N., Scolah, J., Kalashnikov, Y., Malenfant, K., Katalifos, A., Hosein Poitras Loewen, A., Knoth, I., Martin, C.-O., Fontaine, V. K., Bigdeli-Azari, H., Belanger, A.-M., Brassard, M.-L., Jacquemont, S., Forgeot d'Arc, B., Ernst, C., Carter, M., Lucas Tardif, C., Michaud, J., Couture, M., Abadie, P., Joobar, R., Rouleau, G., Lippé, S., & Elsabbagh, M. (2026). Uncovering Developmental Trajectories of Social Preference in Ndd Using Eye-Tracking. Poster presented at the International Society for Autism Research (INSAR) Annual Meeting in Prague, Czechia.
- Beaudry, A., **Blanco-Gomez, G.**, Huberty, S., Srishyla D., Scolah, J., Hebert-Lalonde, N., Desjardins, J., Lippé S., O'Reilly, C., Elsabbagh, M. and the Q1K Team (2025). Differences in visual search strategies in children with ASD . Poster presented at the Integrated Program in Neuroscience Retreat, Montreal, Canada.
- **Blanco-Gomez, G.**, Wright, N., the BASIS Team, Webb, S.J., Elsabbagh, M. (2025). Neurosubtyping in Autism: A clustering approach to predict language outcomes in infants. Poster presented at the Federation of European Neuroscience Societies (FENS) Regional Meeting (FRM 2025) in Oslo, Norway.

- O'Reilly, C., Desjardins, J., **Blanco-Gomez, G.**, Huberty, S., Hosein Poitras Loewen, A., Srishyla, D., Knoth, I., Martin, C.-O., Batten, J., van Noordt, S., Hebert-Lalonde, N., Samson, F., Smith, T., Lippé, S., Elsabbagh, M., and the Q1K Team (2025). The Q1K EEG/Eye Tracking Experimental Test Battery: Contribution to Open Science. Poster presented at the Organization for Human Brain Mapping (OHBM) Annual Meeting in Brisbane, Australia.
- **Blanco-Gomez, G.**, Huberty, S., Srishyla D., Scolah, J., Hebert-Lalonde, N., Desjardins, J., Lippé S., O'Reilly, C., Elsabbagh, M. and the Q1K Team (2024). Validation of next generation co-registered EEG and Eye-tracking systems: Towards an open science toolbox. Poster presented at the International Society for Autism Research (INSAR) Annual Meeting in Melbourne, Australia.
- **Blanco-Gomez, G.**, O'Reilly, C., The BASIS team & Elsabbagh, M. (2023). Development of Lateralized Brain Oscillations in Infants at Risk for Autism. Poster presented at the International Society for Autism Research (INSAR) Annual Meeting in Stockholm, Sweden.
- Beauchamp ML*, Rezzonico S, **Blanco Gomez G**, Bennett T, Duku E, Georgiades S, Kerns CM, Richard AE, Smith IM, Szatmari P, Vaillancourt T, Zaidman-Zait A, Zwaigenbaum L, Elsabbagh M.(2023) The Validity of the Narrative Scoring Scheme in School-Aged Children on the Autism Spectrum. Poster presented at the International Society for Autism Research (INSAR) Conference, Stockholm, Sweden.
- **Blanco-Gomez, G.**, O'Reilly, C. & Elsabbagh, M. (2021). Lateralization during development is associated as a predictor of language impairments in Autism. Poster presented at the 50th annual Society for Neuroscience Conference, Chicago, USA.
- **Blanco-Gomez, G.**, De Deyne, S., Cabana, A., & Armstrong, B. (2020). *Exploring demographic differences in a large-scale study of Spanish word association norms: The role of age, gender, and nationality*. Proceedings of the 42nd Annual Conference of the Cognitive Science Society. Toronto, Canada: Cognitive Society.
- **Blanco-Gomez, G**, Wong, P.C., Yang, X. (2019). *CNTNAP2: From Neurogenetics of Behaviors to Optimal Language Training*. Poster presented at the undergraduate CUHK conference, Hong Kong, SAR.

Oral

- **Blanco-Gomez, G.**, O'Reilly, C., Desjardins, J. A., Huberty, S., Hebert Lalonde, N., Scolah, J., Kalashnikov, Y., Malenfant, K., Katalifos, A., Hosein Poitras Loewen, A., Knoth, I., Martin, C.-O., Fontaine, V. K., Bigdeli-Azari, H., Belanger, A.-M., Brassard, M.-L., Jacquemont, S., Forgeot d'Arc, B., Ernst, C., Carter, M., Lucas Tardif, C., Michaud, J., Couture, M., Abadie, P., Joobar, R., Rouleau, G., Lippé, S., & Elsabbagh, M. (2026). EEG-Based Neurosubtyping in Autism and Related Ndds Talk presented at the International Society for Autism Research (INSAR) Annual Meeting in Prague, Czechia.
- **Blanco-Gomez, G.**, Huberty, S., Srishyla D., Scolah, J., Hebert-Lalonde, N., Desjardins, J., Lippé S., O'Reilly, C., Elsabbagh, M. and the Q1K Team (2024). Identifying subtypes in children with autism using the gap overlap task: A pilot study. Talk presented at the Association pour la Recherche sur l'Autisme et la Prévention des Inadaptations (ARAPI) meeting in LE Croisic, France.
- **Blanco Gomez G**, Beauchamp ML, Rezzonico S, Jeuland E., Bennett T, Duku E, Georgiades S, Kerns CM, Richard AE, Smith IM, Szatmari P, Vaillancourt T, Zaidman-Zait A, Zwaigenbaum L, Elsabbagh M (2023). The Narrative Scoring Scheme's Validity with Bilingual and Monolingual Children on the Autism Spectrum. Talk presented at the American Speech-Language-Hearing Association (ASHA) Convention, Boston, United States of America.
- **Blanco-Gomez, G.**, O'Reilly, C. & Elsabbagh, M. (2023). The links between lateralization and language learning. Invited talk at the Hamamatsu School of Medicine. Hamamatsu, Japan.
- **Blanco-Gomez, G.** & Elsabbagh, M. (2022). Source estimation of oscillatory systems and trends in autism. Talk presented at the Joint Conference for Language Evolution. Kanazawa, Japan.
- **Blanco-Gomez, G.**, O'Reilly, C. & Elsabbagh, M. (2021). Abnormal resting-state lateralization in infants at risk for autism. Talk presented at the 5th annual NeuroSymposium conference. Ottawa, CAN.
- **Blanco-Gomez, G**, De Deyne, S., Cabanas, A. & Armstrong, B.C. (2019). *How are free associate norms impacted by sex, age, and geographic location? Insights from 5000 cues collected as part of the "Small*

World of Words: Spanish Edition". Talk presented at the Annual meeting of the Society for Computation in Psychology, Montreal, CAN.

PUBLICATIONS

Peer-Reviewed Articles

- **Blanco-Gomez, G.**, Wright, N., O'Reilly, C., Webb, S. J., & Elsabbagh, M. (2025). EEG neurosubtyping of infants predicts language trajectories. *Journal of Neural Transmission*, 1-22.
- Beauchamp, M. L., **Blanco-Gomez, G.**, Rezzonico, S., Jeuland, E., Bedford, R., Duku, E., ... & Elsabbagh, M. Psychometric Assessment Of The Narrative Scoring Scheme In Bilingual And Monolingual Children On The Autism Spectrum. *Rivista di psicolinguistica applicata* , 47.
- **Blanco-Gomez, G.**, O'Reilly, C., Webb, S. J., Elsabbagh, M., & BASIS Team. (2025). The development of lateralized brain oscillations in infants: lessons from autism. *Developmental Psychobiology*, 67(6), e70101.
- Barraza, P., Dumas, G., Liu, H., **Blanco-Gomez, G.**, van den Heuvel, M.I., Baart, M., and Pérez, A. (2019). Implementing EEG hyperscanning setups. *MethodsX* 6, 428–436.

Book chapters

- **Blanco-Gomez, G.**, O'Reilly, C., & Elsabbagh, M. (in press). Early developmental markers: Neurophysiology and behaviour. In M. K. Belmonte & E. Anagnostou (Eds.), *The autism spectrum: Identification, understanding, and treatment in global context*. Elsevier.

Conference Proceedings

- Beauchamp, M. L. H., **Blanco-Gomez, G.**, Rezzonico, S., Jeuland, E., Bennett, T., Duku, E., Georgiades, S., Kerns, C., Mirenda, P., Richard, A., Smith, I. M., Szatmari, P., Vaillancourt, T., Zaidman-Zait, A., Zwaigenbaum, L., & Elsabbagh, M. (2023). The Validity of the Narrative Scoring Scheme in School-Aged Children on the Autism Spectrum. INSAR. International Society for Autism Research Annual Meeting
- **Blanco-Gomez, G.**, O'Reilly, C. & Elsabbagh, M. (2021). Abnormal resting-state lateralization in infants at risk for autism. NeuroSymposium. (2021). Abstracts from NeuroSymposium 2021. *McGill Journal of Medicine*, 20(1). <https://doi.org/10.26443/mjm.v20i1.923>
- **Blanco-Gomez, G.**, De Deyne, S., Cabana, A., & Armstrong, B. (2020). Exploring demographic differences in a large-scale study of Spanish word association norms: The role of age, gender, and nationality. Proceedings of the 42nd Annual Conference of the Cognitive Science Society. Toronto, Canada: Cognitive Society.

Submitted Papers

- **Blanco-Gomez, G.**, Scoriah, J., O'Reilly, C., Huberty, S., van Noordt, S., Carter Leno, V., Webb, S. J., & Elsabbagh, M. (2026). *Sex differences in infant brain developmental trajectories in ASD*. Manuscript submitted for publication to *Frontiers in Computational Neuroscience*.
- **Blanco-Gomez, G.**, O'Reilly, C., Desjardins, J. A., Huberty, S., Hebert Lalonde, N., Scoriah, J., Kalashnikov, Y., Malenfant, K., Katalifos, A., Hosein Poitras Loewen, A., Knoth, I., Martin, C.-O., Fontaine, V. K., Bigdeli-Azari, H., Belanger, A.-M., Brassard, M.-L., Jacquemont, S., Forgeot d'Arc, B., Ernst, C., Carter, M., Lucas Tardif, C., Michaud, J., Couture, M., Abadie, P., Joobor, R., Rouleau, G., Lippé, S., & Elsabbagh, M. (2026). *Autism neuro-subtyping: EEG approaches to tackle autism heterogeneity*. Manuscript submitted for publication to *Autism Research*.

SKILLS

- **Programming skills:** Python, R statistics, Praat, MATLAB, Stata, MPlus, SAS, computational linguistics.
- **Dry Lab skills:** Participant recruiting, EEG, FNIRs, lexical decision task.

LEADERSHIP EXPERIENCE

National Student Ambassador and Representative

Canadian National Neurodevelopmental Research Platform, Quebec, Canada 2021-Present

- Voice the students' opinions at meetings, playing an active role in the decision-making process of the steering committee.
- Responsible for planning activities and helping fellows advance in their career goals by connecting them to opportunities.

Student Representative

International Society for Autism Research, Kansas, USA 2025-Present

- Acting as a liaison between students and board members regarding new opportunities and programs.
- Responsible for organizing the student social at the annual meeting and mentorship programs year-round.

Vice-President

Neuroscience Association of Undergraduate Students, Toronto, Canada 2017-2019

- Acted as a representative for student voice and assisted in the organization of multiple academic seminars.
- Hosted the *Everything Neuroscience* undergraduate conference for three consecutive years. Named the best undergraduate student association at the University of Toronto in 2018.

STUDENT SUPERVISION

Integrating EEG and Eye-Tracking to Characterize Attentional Disengagement in Autism Using the Gap-Overlap Task

Maria Lagakos

Undergraduate Honours Thesis, McGill University, Montreal, Canada January 2026

Investigating Visual Search Performance in Autism Spectrum Disorder

Audrey-Anne Beaudry

Undergraduate Honours Thesis, McGill University, Montreal, Canada April 2025

TEACHING

Teaching Assistant, NEUR 602: Critical Analysis in Neuroscience

McGill University, Montreal, Canada

Fall 2023

- Facilitated critical discussions on neuroanatomical case studies and research methodology.
- Supported course delivery, including curriculum design, student assistance, and exam preparation.

Seminar instructor, How to pitch your research series

Canadian National Neurodevelopmental Research Platform, Montreal, Canada

Yearly (2024-2026)

- Hosted a seminar series to teach graduate students how to pitch their research to a wide audience.
- Helped students prepare a presentation for the 3-minute thesis competition

PUBLIC SPEAKING ROLES

TEDx McGill Talk | February 2026, Montreal, Canada

- Presented latest research findings about how infant brains develop language to an audience of 500+ guests.

The Amazing Brain Talks, Brain Canada | October 2024, Montreal, Canada

- Was selected as one of the speakers for Brain Canada's the Amazing Brain talks series, an annual event which aims to make the latest advances in brain health research accessible and engaging.

SciencePop Competition | November 2024, Montreal, Canada

- Won the provincial SciencePop competition, a Quebec-wide initiative to make science more accessible to general audience.

Neurolingo talk series | November 2022, Montreal, Canada

- Presented to an audience of 2,000+ individuals about the way word choice can shape opinions and the psychology of how companies use word associations to influence behaviour.