

ANDREA DÍAZ-BARRIGA YÁÑEZ

M.Sc, Ph.D

CONTACT

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Canada

PROFILE

- Goal-oriented researcher with hands-on experience applying Human Research Standard Operating Procedures and Good Clinical Practices.
- Mentor, teacher, and speaker with excellent communication skills.
- Science communication advocate.

SKILLS

- **Personal:** Adaptability, attention to detail, critical thinking, ethical awareness, persistence, planning, problem solving, team member.
- **Statistical software:** RStudio, JAMOVI, JASP, SPSS, MATLAB.
- **Other software:** FSL, Brainstorm, MS-Office suite, Psychopy, OpenSesame, DMDX, E-prime, Canva.
- **Neuropsychology:** Cognitive assessment.

LANGUAGE

- **Spanish:** First language
- **English:** Full working proficiency
- **French:** Competent

EDUCATION

- **Ph.D. Developmental Psychology**
August 2014 – October 2018
University of Sheffield
Sheffield, United Kingdom
- **M.Sc. Psychology**
(Approved with honors)
August 2012-2014
Autonomous University of San Luis Potosi San Luis Potosi, Mexico
- **Bachelor's Degree. Psychology**
(Approved with honors)
August 2006-2011
Autonomous University of San Luis Potosi San Luis Potosi, Mexico

EXPERIENCE

- Research Associate**
Montreal Neurological Institute, McGill University. Montreal, Canada
 - 09/2025 – 04/2024 . Dr. Lesley Fellows (PI).
 - I was involved in two large-scale studies, one examining the links between cardiovascular and brain health in older adults with HIV (Positive Brain Health Now Cohort), and a second one investigating the relationship between olfactory dysfunction and cognition in post-COVID syndrome (Quebec Action for Post-COVID initiative).
 - My role in the Positive Brain Health Now Cohort Study involved coordinating researchers from the Vascular Health Unit and the School of Physical and Occupational Therapy at McGill University, coordinating and managing data analysis from over 360 people living with HIV, managing project timelines, and manuscript preparation.
 - For the Quebec Action for Post-COVID I was involved in coordinating the analysis of data and wrote the manuscript for its publication.
- Postdoctoral Fellow**
Laboratory for Cognitive Mechanism Studies. Bron, France
 - 11/2023 – 11/2021. Dr Gaëtan Plancher (PI).
 - I worked on two different research projects, one exploring the neural correlates of attentional refreshing and a second one investigating the impact of distractors under the threshold of consciousness to forgetting in working memory.
 - For both studies I designed the experimental protocol, conducted both neuroimaging (EEG) and behavioral data collection, analyzed the data, and wrote the manuscripts for their publication.
- Postdoctoral Fellow**
Lyon Neuroscience Research Center. Bron, France
 - 11/2021 – 08/2019. Dr Jérôme Prado (PI).
 - I worked on two different research projects. The first one investigated the neurodevelopment of arithmetic skills. I was involved in the design of both the behavioural and neuroimaging (fMRI) testing for the project, I collected the fMRI data and supervised the behavioural data collection, I conducted the statistical analyses and interpreted both behavioural and fMRI data, and wrote and edit the manuscript for its publication.
 - The second one investigated the development of attentional shifts during single digit arithmetic. This project involved two different waves for data collection. I was involved in collecting the data for wave 2. I also conducted statistical analyses for both waves and interpreted the data in order to write and edit the manuscript.

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EXPERIENCE

Doctoral Student

University of Sheffield. Sheffield, United Kingdom

- 08/2014 – 10/2018 .Daniel Carroll and Dr Danielle Matthews (Supervisors).
- "Domain-general precursors of children's mathematics skills: The role of working memory and language"
- I designed and conducted three different experiments to examine the cognitive mechanisms that children use to perform mathematics. This involved independently developing research questions, reviewing literature, piloting cognitive tasks, recruiting schools and families from diverse backgrounds, collecting data with 4-to 6-year-olds, coding data, analyzing quantitative data, and writing up the findings for research and lay audiences.

CERTIFICATIONS AND PROFESSIONAL MEMBERSHIP

Certifications

- Good Clinical Practices
- Tri-Council Policy Statement: Involving Humans (TCPS 2)
- Human Research SOP

PROFESSIONAL MEMBERSHIP

- Society for Research in Child Development: Latinx Caucus Member (Since 2016)
- Mathematical Cognition and Learning Society (Since 2017)
- European Society for Cognitive Psychology (Since 2022)

OTHER EXPERIENCE

- **Temporal Lecturer** (07/2019 – 01/2019). Faculty of Psychology. Autonomous University of San Luis Potosi San Luis Potosi, Mexico. I taught "Cognitive Mechanisms" to first year undergraduate students.
- **Clinical Cognitive Psychologist** (07/2019 – 01/2019)–(08/2013 – 04/2014). San Luis Potosi, Mexico. Cognitive intervention in children with learning and pervasive developmental disorders.
- **Science outreach activities** including museum-based events, school visits, and participating in public science festivals such as the "Brain Week" (France).
- **Peer-reviews:** Journal of Cognitive Psychology (2022), Journal of Numerical Cognition (2022), Infant and Child Development (2021, member of the Editorial Board since January 2023), and Quarterly Journal of Experimental Psychology (2020).