

FREDERICO B L PRADO

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EDUCATION

Universidade Estadual de Campinas

Jan 2014 - Jul 2017

Bachelor's degree in Linguistics

Institute of Language Studies

Awarded a CNPq (Brazil) undergraduate research grant

McMaster University

Sep 2017 - 2019

Master of Science degree, Cognitive Science of Language Program

Fully funded by an academic merit scholarship

McMaster University

Sep 2019 - present

PhD Candidate, Cognitive Science of Language Program

Fully funded by an academic merit scholarship

PROFESSIONAL EXPERIENCE

McMaster University

May 2022 - September 2022

Research assistant

- Research assistant at the Syntax Lab at the The Centre for Advanced Research in Experimental and Applied Linguistics (ARiEAL)
- Tasked with designing and implementing linguistic research experiments using eye tracking technology
- Further given the responsibility of writing reference materials for training future lab members in Eye Tracking research
- Using SR Research's EyeLink® toolkit
- Hardware: EyeLink Portable Duo
- Software: Experiment Builder
- Relevant programming languages: R (data wrangling, processing)
- Designed experiments on syntactic dependencies and the processing effects of telecity in English and hyper-raising in Brazilian Portuguese.

McMaster University

Sept 2017 - Present

Teaching Assistant

- Worked as a teaching assistant for the following courses:
- Introduction to Linguistics I (Marking, office hours).
- Syntax (Marking).
- Semantics (Marking).
- Structure of Modern English (Marking, teaching tutorials)
- Morphology (Marking, office hours).
- Pragmatics (Marking).

Translating

2015-2018

Freelance translating

- Worked seasonally on freelance contracts as a translator (English/Portuguese).
- Initially worked translating and proofreading dissertations for graduate students at the Institute of Electrical Engineering at the State University of Campinas.
- Translated and proofread the documentation of the R Package SADS.
- Translated and proofread texts and documentation for two art exhibitions: *Fields of Invisibility* and *The Other Transatlantic* (São Paulo, Brazil).

RESEARCH EXPERIENCE

McMaster University

Sep 2019 - Ongoing

PhD Thesis: Hyper-raising under control

- Under supervision of Dr. Ivona Kučerová.
- Committee members: Dr. Alison Biggs, Dr. Jon Sprouse.
- A formal account of a syntactic cross-clausal dependency termed *Hyper-raising* in the literature.
- Major contributions of the thesis:
- I present a novel data set from Brazilian Portuguese that shows there is an empirical gap in the literature: formal models in the existing literature make incorrect predictions about hyper-raising.
- I address the empirical gap by demonstrating a formal implementation of an existing model.
- Expected defence date: July 2023

McMaster University

Sep 2017 - Jul 2019

Master's Thesis: Null Subjects in Brazilian Portuguese, an alternative approach

- Under supervision of Dr. Ivona Kučerová.
- An analysis of null subject phenomena in Brazilian Portuguese that aims to give a new approach in light of new data on null subject in matrix clauses and WH-movement intervention effects.

Universidade Estadual de Campinas

May 2016 - May 2017

Undergraduate thesis: Reassessing multiple adjectival modification in Pirahã

- Under supervision of Dr. Filomena Sândalo .
- Conducted fieldwork with native Pirahã speakers at Humaitá, AM.
- Gathered data on adjective usage by employing predefined elicitation tests.
- Granted an undergrad research grant by CNPq - Brazilian National Council for Scientific and Technological Development.

SKILLS

Data analysis

- Extensive experience using R for data organization, cleaning, summarizing, analysis, modeling, and visualization.
- Proficient in handling large experimental result datasets and utilizing R's TIDYVERSE and DPLYR packages for data clean-up and summarizing.
- Skilled in developing R scripts to convert raw data into organized structures reflecting relevant experimental factors and variables.
- Expertise in testing experimental hypotheses through Mixed Linear Effects Models (MLEMs) and comparing models for best fit.
- Familiarity with pseudo R-square coefficients to assess variation within data.
- Proficient in using R to create effective visualizations, including scatterplots, boxplots, interaction plots, and histograms.
- Experience in cleaning raw data outputted from varying sources, often combining R methods with Excel functions.
- Demonstrated ability to present research findings and discuss theoretical implications effectively.
- Sample experimental research work available at: <https://frprado.github.io/pdf/PradoAssessing2021.pdf>.

Technology

- Proficient user of L^AT_EX.
- Working knowledge of GNU/Linux operating systems.
- Knows how to design and implement linguistic experiments using the IBEX platform.
- Experience designing and implementing eye-tracking experiments using Eyelink software and hardware.
- Knows data wrangling, processing and analysis methods using R.
- Practical knowledge of BASH scripting and git.
- Comfortable doing linguistic fieldwork.

General

- Analytical training highly focused on dealing with pattern recognition and evaluating different theories in their predictive power.
- Used to going through the full extent of a research project pipeline: stating questions and choosing methodology, reviewing the literature, collecting and analyzing data, hypotheses testing and presenting results in a concise and accurate fashion.
- Used with self-teaching new interfaces, paradigms and tools on the go - used to working in a interdisciplinary field intersecting theoretical linguistics and cognitive science.
- Interdisciplinary training focused on statistics, cognitive science, formal linguistics and neuroscience.
- Proficient literature researcher, can search for and summarize existing theories on a given topic/field with very little input.
- Comfortable learning and dealing with formal grammars within a range of different frameworks.
- Comfortable presenting complex research, authorial or not, to different audiences with varying degrees with complexity.

PRESENTATIONS AND EVENTS

The Canadian Linguistic Association

Jun 2022

2022 CLA meeting

- Conference talk: *Movement across finite clause boundaries, the case of hyper raising in Brazilian Portuguese*

The annual Montreal-Ottawa-Toronto-Hamilton Syntax Conference

Apr 2022

MOTH 2022

- Conference talk: *Hyper raising in Brazilian Portuguese*

The annual Montreal-Ottawa-Toronto-Hamilton Syntax Conference

Apr 2021

MOTH 2021

- Conference talk: *Deriving the double subject in Brazilian Portuguese through anti-locality*

The Canadian Linguistic Association

Jun 2019

2019 CLA meeting

- Poster presented: *Brazilian Portuguese null subjects in light of a hybrid discourse-oriented system*

Universidade de São Paulo

Oct 2016

V Workshop on Indigenous Languages

- Conference talk: *Multiple adjectival modification in Pirahã*

RELEVANT COURSES

Core Courses: Undergrad

Syntax and Syntax Theory

Models in phonology

Psycholinguistics

Brazilian indigenous languages

Language acquisition

Other Courses: Undergrad

Microeconomics I

Calculus 101

Probability and Statistics

Japanese language (6 semesters)

General economic history

Core Courses: Graduate

Fundamentals of the Cognitive Neuroscience of Language I and II

Laboratory Methods of Visual Language Research

Language Analysis Methods: Syntax and Semantics

Advanced Syntax and Semantics

Languages

Native: Portuguese — Fluent: English (IELTS: 8 band overall score for General Training) —
Studied: Japanese, French, Spanish — Investigated: Pirahã