

# Atticus G. Harrigan

DOCTOR OF PHILOSOPHY CANDIDATE / SSHRC DOCTORAL FELLOW

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## Education

### University of Alberta

Edmonton, Alberta

PH.D. CANDIDATE IN LINGUISTICS

Sept. 2015 - PRESENT

- I study corpus and quantitative linguistics under Dr. Antti Arppe. Working with Indigenous languages of Canada, specifically Plains Cree, my dissertation looks at how mood-like constructions can be predicted from morphological, syntactic, and semantic features.

### Linguistics Society of America Summer Institute

Lexington, Kentucky

UNIVERSITY OF KENTUCKY

July 2017

- I attended the 2017 Summer Institute in Linguistics at the University of Kentucky. I took course work in Construction Grammar, Computational Linguistics, Sign Language Linguistics, and Forensic Linguistics.

### University of Alberta

Edmonton, Alberta

B.A. (HONS.) IN LINGUISTICS

Sept. 2012 - June 2015

- I studied linguistics focusing on language sustainability and phonetics, culminating in my honours thesis, *Reduction in Plains Cree*, under the supervision of Dr. Benjamin V. Tucker. This work focuses on phonetic reduction in Plains Cree glide-onset syllables

### MacEwan University

Edmonton, Alberta

DIPLOMA OF PROFESSIONAL WRITING

Sept. 2009 - June 2012

- I studied professional writing, including technical writing and rhetoric.

## Skills

### Programming

Python, Finite State Machines, LaTeX, Unix, Awk, Bash

### Languages

English (Native), Plains Cree (Reading, Writing, Some Spoken), Latin (Reading, Writing)

### Software

Adobe Creative Suite, AntConc, Audacity, ELAN, macOS, Microsoft Office, Praat, R, RStudio, Windows

## Honors & Awards

2017	President's Doctoral Prize of Distinction	\$27,000
2017	SSHRC Doctoral Fellowship	\$80,000
2015	Joseph Armand Bombardier Canada Graduate Scholarship—Master's	\$17,500
2015	Walter H. Johns Graduate Fellowship	\$5,700
2014	Roger S. Smith Undergraduate Researcher Award	\$5,000
2010-2013	Jason Lang Scholarship	\$1,000 (x3)
2013	KIAS <i>Tomorrow's Ideas, Now</i> Presentation Award	\$120
2009	Alexander Rutherford Scholarship for Academic Excellence	\$2,500
2009	Pezer Construction Scholarship for Excellence in Communication Technology Studies	\$1,000

## Teaching Experience

### Principal Instructor

UNIVERSITY OF ALBERTA

July 2020-August 2020

- LING 101—Introduction to Linguistic Analysis

## Principal Instructor

UNIVERSITY OF ALBERTA

July 2019

- INT D 318—Technologies for Endangered Language Documentation (Co-taught with Ashleigh Surma)

## Teaching Assistant

UNIVERSITY OF ALBERTA

Sept. 2016 – April 2017

- LING 101—Introduction to Linguistics
- LING 308—Morphology and the Lexicon
- LING 309—Syntax and Semantics

## Volunteer

Edmonton, Alberta

CANADIAN INDIGENOUS LANGUAGE AND LITERACY DEVELOPMENT INSTITUTE

July 2015

- I assisted students with technology in LING 311 (Advanced Cree Grammar).

## Intern/Teaching Assistant

Edmonton, Alberta

CANADIAN INDIGENOUS LANGUAGE AND LITERACY DEVELOPMENT INSTITUTE

Sept. 2014 - Dec. 2014

- I assisted students in understanding key concepts in LING 211 (Phonetics of Indigenous Languages) in Maskwaçîs, AB.

## Intern/Teaching Assistant

Edmonton, Alberta

CANADIAN INDIGENOUS LANGUAGE AND LITERACY DEVELOPMENT INSTITUTE

July 2014

- I assisted students in understanding and the instructor in explaining key concepts in LING 212 (Morphosyntax of Indigenous Languages) and INT-D 318 (Technologies for Indigenous Language Documentation).

## Selected Work Experience

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### Indigenous Language Analyst

ALBERTA EDUCATION

Nov. 2018 – May 2019

- In working for the First Nations, Métis, and Inuit Education Directorate, I provided research expertise in the field of Indigenous languages. Among other responsibilities, I generated reports regarding the status of Albertan languages, undertook jurisdictional surveys for language policy and planning, supported the creation, drafting and administering of grants programs, and performed analyses of quantitative and qualitative data using a range of techniques.

### Research Intern

ALBERTA EDUCATION

Feb. 2018 – Aug. 2018

- I provided research and linguistic expertise on Indigenous language pedagogy and policy, with a particular focus on the creation of immersion programming. I was an integral part of developing grant programs and documents, briefing notes, literature reviews, and other reports to be used both internally and externally.

### Laboratory Manager

UNIVERSITY OF ALBERTA

Sept. 2015 – PRESENT

- I manage the storage and use of laboratory equipment; coordinate and schedule recordings and other research activities with partner Indigenous communities; manage, oversee, and train undergraduate annotators; and participate in recording activities for the Alberta Language Technology Laboratory (ALTLab).

### Research Assistant

UNIVERSITY OF ALBERTA

May 2017 – August 2018

- I was a research assistant for Dr. Jordan Lachler's *Responding to the Call: Supporting Indigenous Language Sustainability in Alberta* project.

### Research Assistant

UNIVERSITY OF ALBERTA

Oct. 2014 – September 2015

- I participated in recording, annotation, and other activities in relation to the production of computational tools for Indigenous language learning as part of the SSHRC funded 21<sup>st</sup> Century Tools for Indigenous Languages project.

## Supervisor

LUCKY BRAND JEANS

May 2012 – Jan. 2014

- I managed sales associates, set sales goals, constructed schedules, and worked as a sales associate where required.

## Assistant Manager

CHAPEL HATS

July 2010 – Feb. 2011

- I managed inventory, merchandised product, constructed schedules, interviewed potential hires, and worked as a sales associate where required.

## Professional Experience

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### Student Library Advisory Committee

BOARD MEMBER

University of Alberta

October 2017 - PRESENT

- I provide feedback to the University of Alberta Libraries regarding library services and programs for graduate students.

### Linguistics Graduate Student Association

PHD REPRESENTATIVE

University of Alberta

September 2019 - April 2020

- I act as the representative for PhD students to the Department of Linguistics.

### Linguistics Graduate Student Association

PRESIDENT

University of Alberta

September 2017 - September

2018

- I lead the association and help steer its activities, acted as the primary point of conduct, and filled in where needed to help serve Linguistics graduate students in a social and professional capacity.

### Appeals and Complaints Board for the Graduate Students' Association

BOARD MEMBER

University of Alberta

May 2017 - September 2018

- I sat on the board that hears official appeals and complaints directed toward the Graduate Students' Association.

### Linguistics Graduate Student Association/Department of Linguistics

GRADUATE STUDENTS' ASSOCIATION REPRESENTATIVE

University of Alberta

Jan. 2017 - September 2018

- I acted a department representative on the general council of Graduate Students' Association.

### Linguistics Graduate Student Association

TREASURER

University of Alberta

September 2016 - September

2017

- I administered and kept track of the association's funds in addition to applying for funding from various sources.

### Linguistics Graduate Student Association

EVENT COORDINATOR

University of Alberta

September 2015 - September

2016

- I planned and executed events through the University of Alberta's Student Group Services for the Linguistics Graduate Student's Association.

### University of Alberta Undergraduate Linguistics Club

VICE-PRESIDENT

University of Alberta

September 2014 - April 2015

- I operated the undergraduate linguistics helpdesk.
- I planned and executed social events through the University of Alberta's Student Group Services.
- I redrafted the constitution.
- I managed, scheduled, and led meetings.
- I created training materials for future executive members.

## Other Professional Experience

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### Scientific Committee

*Fourth Workshop on the Use of  
Computational Methods in the  
Study of Endangered Languages*  
2020-2021

#### TRACK CHAIR

- I am acting as the community-track chair for ComputEL-4. I work with the Scientific Committee chair in managing submissions, assigning reviews, and maintaining the conference website.

### Scientific Committee

*1st Joint SLTU and CCURL  
Workshop at LREC 2020*  
October 2019

#### SUB-REVIEWER

- I acted as a sub-reviewer on two papers for the 1st Joint SLTU (Spoken Language Technologies for Under-resourced languages) and CCURL (Collaboration and Computing for Under-Resourced Languages) Workshop at LREC 2020

### Scientific Committee

*LREC 2020*

#### REVIEWER

*October 2019*

- I acted as a peer-reviewer on three papers for the 2020 Language Resources and Evaluation Conference.

### Organizer

*University of Alberta*

#### 50TH ALGONQUIAN CONFERENCE

*2018*

- I organized and ran the 50th Algonquian Conference. This conference acts as the major meeting for researchers working with Algonquian languages.

### Scientific Committee

*11th International Conference  
on the Mental Lexicon*

#### REVIEWER

*2018*

- I acted as a peer-reviewer on three papers for the 11th International Conference on the Mental Lexicon.

### Volunteer

*Edmonton, Alberta*

#### FORT MCMURRAY EVACUEE CENTRE AT LISTER HALL

*July 2015*

- I assisted in feeding Fort McMurray wildfire victims housed in Lister Hall at the University of Alberta.

### Recorder/Elicitor

*Maskwacîs, Alberta*

#### UNIVERSITY OF ALBERTA

*June 2015 - PRESENT*

- I record, elicit, and transcribe dictionary building/experimental sessions in Maskwacîs, AB, documenting the Plains Cree Language.
- I mentor undergraduate students in elicitation and recording practices.

### Tutor

*Edmonton, Alberta*

#### FREELANCE

*Sept. 2013 - March 2016*

- I provided private, 1-on-1, tutoring as well as group tutoring through the Undergraduate Linguistics Club.
- I tutored for LING 101 (Introduction to Linguistics), LING 204 (English Syntax), and LING 205 (Introduction to Phonetics).

### Volunteer

*Edmonton, Alberta*

#### INTERNATIONAL COGNITIVE LINGUISTICS CONFERENCE-12

*June 2013*

- I helped with the projection and technical success of lectures, bookselling, and registration at the International Cognitive Linguistics Conference at the University of Alberta, in Edmonton, Alberta.

## Publications

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## A Morphosyntactically Tagged Corpus for Plains Cree.

IN MACAULAY M. & NOODIN M. (EDS.) *Papers of the Forty-Ninth Algonquian Conference*. MICHIGAN STATE UNIVERSITY PRESS

- Role: Helping build and test the underlying computational model.

Arppe, A., Schmirler, K.,  
Harrigan, A. G., Wolvengrey, A.

In Press

## Plains Cree Verbal Derivational Morphology: A Corpus Investigation

IN MACAULAY M. & NOODIN M. (EDS.) *Papers of the Forty-Eighth Algonquian Conference* (PP. 239-254). MICHIGAN STATE UNIVERSITY PRESS

- Role: Helping build and test the inflectional model the derivational computational model is based upon.

Schmirler, K., Harrigan, A. G.,  
Arppe, A., Wolvengrey, A.

2019

## Design and Evaluation of a Smartphone Keyboard for Plains Cree Syllabics

IN *Proceedings of the 1st Joint Workshop on Spoken Language Technologies for Under-resourced languages (SLTU) and Collaboration and Computing for Under-Resourced Languages (CCURL)*. (PP. 88-96)

- Role: Designing experiments as well as analyzing qualitative and quantitative results, co-writer

Santos E., Harrigan A. G.

2020

## A Preliminary Plains Cree Speech Synthesizer.

PROCEEDINGS OF THE 3RD WORKSHOP ON THE USE OF COMPUTATIONAL METHODS IN THE STUDY OF ENDANGERED LANGUAGES, 1(1) 64-73

- Role: Building the synthesized voice, devising testing procedures, running participants, analyzing data, and primary writer.

Harrigan, A., Mills, T., Arppe, A.

2019

## Learning from the Computational Modelling of Plains Cree Verbs

MORPHOLOGY, 27(4) 65-98

- Role: Helping build the underlying model, coming up with research question, and primary writer.

Harrigan, A. G., Schmirler, K.,  
Arppe, A., Antonsen, L.,  
Trosterud, T., Wolvengrey, A.

2017

## Toward a Detailed Plains Cree VAI Paradigm

IN *Papers of the 47th Algonquian Conference*, EDS. MONICA MACAULAY, AND MARGARET NOODIN

- Role: Developing main research question, analyzing qualitative data, primary writer.

Harrigan, A. G., Arppe, A.,  
Wolvengrey, A.

2017

## Presentations

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### Towards a Morphologically Intelligent and User-friendly On-line Dictionary of Plains Cree

52ND ALGONQUIAN CONFERENCE

October 2020

Arppe, A., Santos E. A., Yan, M.,  
Harrigan, A. G., Schmirler, K.,  
Amoh K., Wolvengrey, A.  
University of Wisconsin-Madison  
(online)

### Leveraging English Translations for an Automatic Semantic Classification of Plains Cree Verbs and Nouns

52ND ALGONQUIAN CONFERENCE

October 2020

Harrigan, A. G., Arppe, A.  
University of Wisconsin-Madison  
(online)

### Automatic Semantic Classification of Plains Cree Verbs

51ST ALGONQUIAN CONFERENCE

October 2019

Harrigan, A. G., Arppe, A.  
Montreal, QC, Canada

## **Towards a Morphologically Intelligent On-line Dictionary of Plains Cree**

51ST ALGONQUIAN CONFERENCE  
October 2019

*Arppe, A., Santos E., Harrigan, A.,  
Schmirler, K., Wolvengrey, A.  
Montreal, QC, Canada*

## **Subverting the Ideology of Standardization with Language Technology**

6TH INTERNATIONAL CONFERENCE ON LANGUAGE DOCUMENTATION AND  
CONSERVATION  
February-March 2019

*Harrigan, A. G., Lachler, J.,  
Arppe, A.  
Honolulu, HI, USA*

## **A Preliminary Plains Cree Speech Synthesizer**

3RD WORKSHOP ON COMPUTATIONAL METHODS FOR ENDANGERED LANGUAGES  
February 2019

*Harrigan, A. G., Mills, T., Arppe, A.  
Honolulu, HI, USA*

## **A Preliminary Plains Cree Speech Synthesizer**

50TH ALGONQUIAN CONFERENCE  
October 2018

*Harrigan, A. G., Mills, T.  
Edmonton, AB, Canada*

## **Long-term Dependencies in Plains Cree**

11TH INTERNATIONAL CONFERENCE ON THE MENTAL LEXICON  
September 2018

*Harrigan, A. G., Arppe, A.,  
Schmirler, K.  
Edmonton, AB, Canada*

## **A Morphosyntactically Tagged Corpus for Plains Cree.**

49TH ALGONQUIAN CONFERENCE  
October 2017

*Arppe, A., Schmirlar, K.,  
Harrigan, A. G., Wolvengrey, A.  
Montreal, QC, Canada*

## **Conjunct(ion) Junct(ion): what is your function?**

49TH ALGONQUIAN CONFERENCE  
October 2017

*Harrigan, A. G., Arppe, A.  
Montreal, QC, Canada*

## **A Morphologically Tagged Corpus for Plains Cree.**

PRAIRIE WORKSHOP ON LINGUISTICS IV  
March 2017

*Schmirler, K., Harrigan, A. G.,  
Arppe, A.  
Saskatoon, SK, Canada*

## **Addressing the Paradox of Authenticity: The Emergence of Pluricentric Written Languages for Haida and Plains Cree.**

115TH AMERICAN ANTHROPOLOGICAL ASSOCIATION ANNUAL MEETING  
November 2016

*Lachler, J., Harrigan, A.,  
Bontogon, M.  
Minneapolis, MI, USA*

## **Lexical Subtypes in a Plains Cree Corpus.**

48TH ALGONQUIAN CONFERENCE  
October 2016

*Harrigan, A. G., Schmirlar, K.,  
Arppe, A.  
Milwaukee, WI, USA*

## **Plains Cree Verbal Derivational Morphology: A Corpus Investigation.**

48TH ALGONQUIAN CONFERENCE  
October 2016

*Schmirler, K., Harrigan, A. G.,  
Arppe, A., Wolvengrey, A.  
Milwaukee, WI, USA*

**So similar in principle, but so different in practice – mixing texts, elicitation and experimentation in the study of the Plains Cree independent and conjunct verb constructions.**

NEW WAYS OF ANALYZING SYNTACTIC VARIATION 2  
May 2016

*Arppe A., Harrigan A., Schmirler, K.*

*Gent, Belgium*

**Word Class Frequencies According to Corpora**

3RD PRAIRIE WORKSHOP ON LANGUAGE AND LINGUISTICS  
March 2016

*Schmirler, K. and Harrigan, A. G.  
Regina, SK, Canada*

**Learning from the Computational Modelling of Plains Cree Verbs**

COMPUTATIONAL METHODS FOR DESCRIPTIVE AND THEORETICAL MORPHOLOGY 17TH  
INTERNATIONAL MORPHOLOGY MEETING  
February 2016

*Harrigan, A., Antonsen, L., Arppe,  
A., Bowers, D., Trosterud, T. and  
Wolvengrey, A.*

*Vienna, Austria*

**Plains Cree Syllabics**

LING 325: WRITING SYSTEMS  
November 2015

*Guest Lecture (Invited)  
Edmonton, AB, Canada*

**Modelling the Plains Cree Verbs**

47TH ALGONQUIAN CONFERENCE  
October 2015

*Antonsen, L., Arppe, A., Harrigan  
A. G., Trosterud, T., Wolvengrey, A.  
Winnipeg, MB, Canada*

**oswêw êkwa ê-tipiskâk, mâka mâciw âhpô ê-mâcît?**

47TH ALGONQUIAN CONFERENCE  
October 2015

*Harrigan, A. G. and Arppe, A.  
Winnipeg, MB, Canada*

**Vowel Spaces and Reduction in Plains Cree**

ACOUSTICS WEEK IN CANADA 2015  
October 2015

*Harrigan, A., Tucker B.  
Halifax, NS, Canada*

**Reduction in Plains Cree**

LING 311: ADVANCED CREE GRAMMAR  
July 2015

*Guest Lecture (Invited)  
Edmonton, AB, Canada*

**Variations in Goals and Methods of Linguistic Education: A Comparison of Academic And Community-Based Approaches to Linguistics**

4TH INTERNATIONAL CONFERENCE ON LANGUAGE DOCUMENTATION AND  
REVITALIZATION  
February 2015

*Jerry, M., Harrigan, A., Bontogon  
M., and Casavant, T.*

*Honolulu, HI, USA*

**Analysis of a Death**

KIAS TODAY'S IDEAS, NOW  
August 2013

*Harrigan, G.  
Edmonton, AB, Canada*