

# ROGER YU-HSIANG LO

E-mail: [roger.lo@ubc.ca](mailto:roger.lo@ubc.ca) · Web: <https://yuhsianglo.github.io/>

## WORK EXPERIENCE

- Applied Scientist*     **Sept. 2022–Present**, Amazon.com, Vancouver, BC  
Alexa Daily Essentials
- Fellow*     **May 2020–Aug. 2020**, University of British Columbia, Vancouver, BC  
Data Science for Social Good Fellowship Program

## EDUCATION

- Ph.D. in Linguistics*     **2016–2022**, University of British Columbia, Vancouver, BC  
Department of Linguistics  
Thesis: Post-stop fundamental frequency perturbation in production and perception of Mandarin stop voicing [\[url\]](#)  
Committee: Kathleen Currie Hall (chair), Molly Babel, Márton Sóskuthy
- Research Master in Linguistics*     **2014–2016**, Leiden University, Leiden, The Netherlands  
Leiden University Centre for Linguistics  
Thesis: Dutch and Swedish *again*: On interaction between object movement and *again*-ambiguities [\[url\]](#)  
Advisor: Cirt L. J. M. Cremers
- Bachelor of Science in Chemistry*     **2008–2013**, National Taiwan University, Taipei, Taiwan  
Department of Chemistry  
Minor: Linguistics

## RESEARCH INTERESTS

- Experimental Phonetics*     Cue weighting in speech production and perception  
Individual variation in production and perception of phonological contrasts  
Phonetic cue use in multilinguals
- Corpus Phonetics*     Cross-linguistic variation in segments  
Speech corpus construction and processing tool development
- Artificial Intelligence*     Linguistic knowledge in NLP models  
Comparison of human and NLP model behaviours in speech perception
- Methodology*     Bayesian statistics  
Online experimentation

## PUBLICATIONS

- Journal Articles & Book Chapters (Peer-Reviewed)*     Hall, Kathleen Currie, J. Scott Mackie, and Roger Yu-Hsiang Lo. 2022. Managing and analyzing data with *Phonological CorpusTools*. In *The open handbook of linguistic data management*, ed. Andrea L. Berez-Kroeker and Bradley McDonnell and Eve Koller and Lauren B. Collister, chapter 51, 575–587. Cambridge, MA: MIT Press. [\[url\]](#)

Lo, Roger Yu-Hsiang. 2022. The dual role of post-stop fundamental frequency in the production and perception of stops in Mandarin-English bilinguals. *Frontiers in Communication* 7: 1–29. [url]

Hall, Kathleen Currie, J. Scott Mackie, and Roger Yu-Hsiang Lo. 2019. *Phonological Corpus-Tools: Software for doing phonological analysis on transcribed corpora*. *International Journal of Corpus Linguistics* 24:522–535.

Huijsmans, Marianne, Daniel K. E. Reisinger, Roger Yu-Hsiang Lo, and Kaining Xu. 2018. A preliminary sketch of determiners in ʔayʔajuθəm. In *Wa7 xweysás i nqwal’utteníha i ucwalmícwa: He loves the people’s languages: Essays in honour of Henry Davis*, ed. Lisa Matthewson, Erin Guntly, and Michael Rochemont, chapter 22, 327–338. Vancouver, BC: UBCOPL.

Johnson, Khia A., Gloria M. Mellesmoen, Roger Yu-Hsiang Lo, and Bryan Gick. 2018. Prior pronunciation knowledge bootstraps word learning. *Frontiers in Communication* 3:1–9. [url]

Conference  
Proceedings  
(Peer-Reviewed)

Tkachman, Oksana, Emily Sadlier-Brown, Roger Yu-Hsiang Lo, and Carla Hudson Kam. 2024. Transparency in sign forms: When and how does iconicity matter?. In *Proceedings of the 46th Annual Conference of the Cognitive Science Society*, ed. Larissa K. Samuelson, Stefan L. Frank, Mariya Toneva, Allyson Mackey, and Eliot Hazeltine, 1948–1952. [url]

Lo, Roger Yu-Hsiang and Márton Sóskuthy. 2023. Articulation rate in consonants and vowels: Results and methodological challenges from a cross-linguistic corpus study. In *Proceedings of the 20th International Congress of Phonetic Sciences*, ed. Radek Skarnitzl and Jan Volín, 2589–2593. [url]

Lo, Roger Yu-Hsiang, Suyuan Liu, Michael McAuliffe, Charlotte Vaughn, and Molly Babel. 2023. Variation in perception and production of /s/-/ʃ/ in English. In *Proceedings of the 20th International Congress of Phonetic Sciences*, ed. Radek Skarnitzl and Jan Volín, 624–628. Guarant International. [url]

Tkachman, Oksana, Emily Sadlier-Brown, Roger Yu-Hsiang Lo, and Carla Hudson Kam. 2023. Interpretability in sign language animal signs. In *Proceedings of the 45th Annual Conference of the Cognitive Science Society*, ed. Micah Goldwater, Florencia Anggoro, Brett Hayes, and Desmond C. Ong, 624–628. [url]

Lo, Roger Yu-Hsiang and Garrett Nicolai. 2021. Linguistic knowledge in multilingual grapheme-to-phoneme conversion. In *Proceedings of the Seventeenth SIGMORPHON Workshop on Computational Research in Phonetics, Phonology, and Morphology*, 131–140. Online: Association for Computational Linguistics. [url]

Lo, Roger Yu-Hsiang, and D. K. E. Reisinger. 2018. Exploring the status of degrees in ʔayʔajuθəm. In *Proceedings of the Tenth Conference on the Semantics of Under-Represented Languages in the Americas*, ed. Kimberly Johnson and Alexander Göbel, 117–132. Amherst, MA: GLSA. [url]

Conference  
Proceedings (Non-  
Peer-Reviewed)

Lo, Roger Yu-Hsiang. 2017. Not all there: The interactions of negation and universal quantifier ʔukʷ in ʔayʔajuθəm. In *Papers for the Fifty-Second International Conference on Salish and Neighbouring Languages*, ed. Andrei Angheliescu, Michael Fry, Marianne Huijsmans, and Daniel Reisinger, 137–149. [url]

Reisinger, Daniel K. E., and Roger Yu-Hsiang Lo. 2017. ʔayʔajuθəm: A degreeless language. In *Papers for the Fifty-Second International Conference on Salish and Neighbouring Languages*, ed. Andrei Angheliescu, Michael Fry, Marianne Huijsmans, and Daniel Reisinger, 225–243. [url]

- Qualifying Papers*      Lo, Roger Yu-Hsiang. 2019. A corpus study of English stress rules. [[url](#)]
- Lo, Roger Yu-Hsiang. 2018. The influence of functional load on Cantonese lexical tone perception. [[url](#)]
- Works in Progress*      Lo, Roger Yu-Hsiang and Márton Sóskuthy. in prep. A cross-linguistic corpus study of the segmental implementation of articulation rate. To be submitted to *Laboratory Phonology*.

## PRESENTATIONS

### *Conference Presentations*

- Tkachman, Oksana, Emily Sadlier-Brown, Roger Yu-Hsiang Lo, and Carla Hudson Kam. Transparency in sign forms: When and how does iconicity matter?. Poster Presentation. The 46th Annual Conference of the Cognitive Science Society. Rotterdam: July 24–27, 2024.
- Babel, Molly, Roger Yu-Hsiang Lo, Charlotte Vaughn, and Michael McAuliffe. Perception and recognition of English /s/ and /ʃ/ with varying acoustic-auditory contrast. Poster Presentation. The 186th Meeting of the Acoustical Society of America/Acoustics Week in Canada. Ottawa, ON: May 13–17, 2024.
- Lo, Roger Yu-Hsiang and Márton Sóskuthy. Articulation rate in consonants and vowels: Results and methodological challenges from a cross-linguistic corpus study. Oral Presentation. International Congress of Phonetic Sciences (ICPhS) 2023. Prague: August 7–11, 2023.
- Lo, Roger Yu-Hsiang, Suyuan Liu, Michael McAuliffe, Charlotte Vaughn, and Molly Babel. Variation in perception and production of /s/-/ʃ/ in English. Poster Presentation. International Congress of Phonetic Sciences (ICPhS) 2023. Prague: August 7–11, 2023.
- Tkachman, Oksana, Emily Sadlier-Brown, Roger Yu-Hsiang Lo, and Carla Hudson Kam. Transparency in sign language animal signs. Poster Presentation. The 45th Annual Conference of the Cognitive Science Society. Sydney: July 26–29, 2023.
- Lo, Roger Yu-Hsiang, Melissa Wang, Michelle Kamigaki-Baron, Noah Luntzlara, and Márton Sóskuthy. Vowels are “stretchier” than consonants: A cross-linguistic corpus study of the segmental implementation of articulation rate. Oral Presentation. LabPhon18: Phonology in a Rapidly Changing World. Online: June 22–25, 2022.
- Lo, Roger Yu-Hsiang, Justin Leung, and Angelika Kiss. Perceiving rhetorical questions in Cantonese. Oral Presentation. The 4th Forum on Cantonese Linguistics. Online: May 29, 2021.
- Hall, Kathleen Currie, Roger Yu-Hsiang Lo, and Stanley Nam. Developing and maintaining the *Phonological CorpusTools software*. Oral Presentation. The 179th Meeting of the Acoustical Society of America. Online: December 7–11, 2020.
- Kiss, Angelika and Roger Yu-Hsiang Lo. Rhetorical wh-questions differing in inquisitiveness: Evidence from Mandarin prosody. Oral Presentation. Sinn und Bedeutung 25. London: September 3–5, 2020.
- Lo, Roger Yu-Hsiang, Angelika Kiss, and Maxime Tulling. Individual variation in the prosody of Cantonese rhetorical questions. Oral Presentation. LabPhon17: Laboratory Phonology on the Margins. Vancouver: July 6–8, 2020.
- Lo, Roger Yu-Hsiang and Angelika Kiss. Durational and pitch marking of rhetorical *wh*-questions in Mandarin. Oral Presentation. The 10th International Conference on Speech Prosody. Tokyo: May 24–28, 2020.

Lo, Roger Yu-Hsiang and Kathleen Currie Hall. SLP-AA: Tools for sign language phonetic and phonological research. Show & Tell. The 20th Annual Conference of the International Speech Communication Association INTERSPEECH 2019. Graz: September 15–19, 2019.

Lo, Roger Yu-Hsiang, Angelika Kiss, and Maxime Tulling. The prosodic properties of the Cantonese sentence-final particles *aa1* and *aa3* in rhetorical *wh*-questions. Oral Presentation. International Congress of Phonetic Sciences (ICPhS) 2019. Melbourne: August 5–9, 2019.

Lo, Roger Yu-Hsiang, Angelika Kiss, and Maxime Tulling. The prosody of Cantonese information-seeking and negative rhetorical *wh*-questions. Oral Presentation. Canadian Linguistic Association. Vancouver, BC: June 1–3, 2019.

Lo, Roger Yu-Hsiang and Kathleen Currie Hall. The influence of functional load on Cantonese lexical tone perception. Poster Presentation. LabPhon16: Variation, development and impairment: Between phonetics and phonology. Lisbon: June 19–22, 2018.

Lo, Roger Yu-Hsiang and Daniel K. E. Reisinger. Exploring the status of degrees in *ʔayʔaʃuθəm*. Oral Presentation. Semantics of Under-Represented Languages in the Americas (SULA) 10. Toronto, ON: May 4–6, 2018.

Johnson, Khia A., Gloria M. Mellesmoen, Roger Yu-Hsiang Lo, and Bryan Gick. Help or hinder? The complicated role of pronunciation knowledge in word learning. Oral Presentation. Pronunciation in Second Language Learning & Teaching 9th Annual Conference. Salt Lake City, UT: September 1–2, 2017.

Lo, Roger Yu-Hsiang. On the derivation of Mandarin A-not-A and alternative questions. Oral Presentation. The 33rd Northwest Linguistics Conference. Vancouver, BC: May 5–7, 2017.

Reisinger, Daniel K. E., Roger Yu-Hsiang Lo, and Christian Epp. The preposition-like verb *hu* in *ʔayʔaʃuθəm* comparative constructions. Poster Presentation. The 22nd Workshop on Structure and Constituency in Languages of the Americas. Vancouver, BC: April 21–23, 2017.

*Talks & Guest  
Lectures*

Lo, Roger Yu-Hsiang. Pitch in Mandarin: A double-edged sword. LOC Colloquium. 2021.

Lo, Roger Yu-Hsiang. The influence of functional load on Cantonese lexical tone perception. Vancouver Phonology Group. 2018.

Lo, Roger Yu-Hsiang and Tomoharu Hirota. Language: Change & revitalization. St. John's College Junior Fellows Speakers Series. 2018.

Lo, Roger Yu-Hsiang and Kathleen Currie Hall. Phonological CorpusTools: Take the stress out of corpus analysis!. Guest lecture for LING 531 Field Methods in Linguistics (taught by Rose-Marie Déchaine). 2018.

## HONORS AND ACHIEVEMENTS

*Grants*

**2020**, Public Scholar Initiative (UBC), \$7,000 CAD

**2019**, Arts Graduate Student Research Awards (UBC), \$1,000 CAD

◦ Project: *Prosody of rhetorical questions in Cantonese*

**2018–2019**, Jacobs Research Fund Group Grant, \$6,000 USD

◦ Project: *From sounds to meanings: Further explorations in ʔayʔaʃuθəm*

◦ With Bruno Andreotti, Gloria Mellesmoen, Daniel Reisinger, and Kaining Xu

**2017–2018**, Jacobs Research Fund Group Grant, \$6,000 USD

- Project: *Explorations in the grammar of ʔayʔaʔuθəm*
- With Bruno Andreotti, Gloria Mellesmoen, Daniel Reisinger, Kaining Xu, and Henry Davis

**2011**, College Student Research Scholarship, \$250 CAD

- Support for phonetic research under supervision of Janice Fon

#### *Awards*

**2021–2022**, Taiwanese Overseas Pioneers Grants, \$40,000 CAD

**2021**, St. John's College George Shen Fellowship, \$3,000 CAD

**2019**, St. John's College Affiliated Scholarships, \$8,000 CAD

**2019**, Graduate Student Travel Fund (UBC), \$500 CAD

**2019**, LSA Institute Fellowship, \$2,200 USD

**2018**, LabPhon16 Student Travel Grant, \$500 USD

**2018**, St. John's College Research Travel Scholarships, \$1,000 CAD

**2016–2020**, Four Year Fellowship (UBC), \$18,000 CAD/year

**2016–2020**, Four Year Fellowship Tuition Waiver (UBC)

**2016–2020**, International Partial Tuition Scholarship (UBC)

**2012**, Scholarship for Excellent Students to Study Abroad, \$3,000 CAD

- Support for exchange program at Masaryk University in Czech Republic

## OTHER EDUCATION

#### *Summer Schools*

**2019**, LSA Linguistic Institute, University of California, Davis, CA

Courses: *Computational Psycholinguistics; Information-Theoretic Approaches to Linguistics; Modeling Linguistic Networks; Gesture and Sign Language Analysis*

**2015**, LOT Summer School in Linguistics, KU Leuven, Leuven, Belgium

Courses: *Language Variation and Change; Acquisition of Phonology: Evidence from Perception and Production; How to Improve Your Statistics; A Cognitive Perspective on Question Answering and Questionnaire Design*

#### *International Student Exchange Program*

**2012–2013**, Masaryk University, Brno, Czech Republic  
Department of English and American Studies

## RESEARCH EXPERIENCE

#### *Research Assistantships*

**2021–2022**, Research assistant under supervision of Marie-Eve Bouchard (UBC)

**2020–2022**, Research assistant under supervision of Márton Sóskuthy (UBC)

**2020–2021**, Research assistant under supervision of Anne-Michelle Tessier (UBC)

**2017–2022**, Research assistant under supervision of Kathleen Currie Hall (UBC)

- Sign Language Phonetic Annotator+Analyzer
- Phonological CorpusTools: Take the stress out of the corpus analysis

**2017–2018**, Research assistant under supervision of Molly Babel (UBC)

**2016–2017**, Research assistant under supervision of Gunnar Ó. Hansson (UBC)

- SSHRC Grant: Long-Distance Phonotactics: Learning Bias, Change and Typology

- 2016**, Research internship under supervision of Zeshu Shao (Max Planck Institute for Psycholinguistics)
- 2015**, Research assistant under supervision of Lisa Cheng (Leiden University)
- 2014–2015**, Research assistant under supervision of Yiya Chen and Lesya Ganushchak (Leiden University)
- 2011–2012**, Research assistant under supervision of Jia-Ling Hsu (National Taiwan University)
- Fieldwork* **2017–2018**, ʔayʔaʃuθəm (Comox-Salish), Powell River, BC (with Marianne Huijsmans, Gloria Mellesmoen, Daniel Reisinger, and Kaining Xu)

TEACHING EXPERIENCE

- Teaching Assistantship* **2019–2020; 2021–2022**, Master of Data Science in Computational Linguistics (UBC)
  - Courses: *Corpus Linguistics; Algorithms & Data Structures; Parsing for Computational Linguistics; Computational Semantics; Computational Morphology; Natural Language Processing for Low-Resource Languages; Privacy, Ethics & Security*

PROFESSIONAL ACTIVITIES

- 2019–2020**, Chair, St. John’s College Academic Committee
- 2018–2019**, Editor, *Proceedings of the Workshop on Structure and Constituency in the Languages of the Americas*
- 2017–2018**, Editor, *Papers for the International Conference on Salish and Neighbouring Languages*

SKILLS

<i>Languages</i>	NATIVE	· Mandarin, Taiwanese
	FLUENT	· English
	INTERMEDIATE	· Spanish, Japanese, Dutch
	BASIC	· Czech
	FIELDWORK	· ʔayʔaʃuθəm
<i>Technical</i>	ADVANCED	· Python, R, Praat, L <sup>A</sup> T <sub>E</sub> X, Git
	INTERMEDIATE	· HTML, Javascript, Java, Shell, Stan, Julia
	BASIC	· C, C++

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