

# CONNOR MAYER

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## Academic Employment

**University of California, Irvine** 2021 - Present  
Assistant Professor, Department of Language Science

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## Education

**University of California, Los Angeles** 2021  
Ph.D., Linguistics  
*PhD thesis title:* Issues in Uyghur backness harmony: Corpus, experimental,  
and computational studies  
*Committee:* Bruce Hayes (chair), Kie Zuraw, Tim Hunter, Adam McCollum

**University of California, Los Angeles** 2018  
M.A., Linguistics  
*Master's thesis title:* An algorithm for learning phonological classes from  
distributional information  
*Committee:* Bruce Hayes (chair), Kie Zuraw, Tim Hunter, Pat Keating

**University of British Columbia** 2013  
Bachelor of Computer Science  
Recipient of the UBC CS Department Academic Award of Excellence (BCS)

**University of British Columbia** 2010  
B.A. with Honours in Linguistics, Minor in Japanese  
*Honours thesis title:* Talking while chewing: Speaker response to natural  
perturbation of speech  
*Advisor:* Bryan Gick

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## Publications

### Peer reviewed articles, proceedings, and chapters

Liu, Y., Luo, S., Łuszczuk, M., Mayer, C., Shamei, A., de Boer, G., & Gick, B. (resubmitted). Robustness of lateral tongue bracing under bite block perturbation. *Phonetica*.

Major, T., Mayer, C., & Eziz, G. (submitted). Disentangling words, clitics, and suffixes in Uyghur. *Languages*.

Mayer, C. (submitted). A large-scale corpus study of phonological opacity in Uyghur. *Phonology*.

Major, T., & Mayer, C. (in press). A phonological model of Uyghur intonation. In Jun, S.-A. and Khan, S.D. (Eds), *Prosodic Typology III*.

Weller, J., Faytak, M., Steffman, J., Mayer, C., Texeira, G., & Tankou, R. (in press). Supralaryngeal articulation across voicing and aspiration in Yemba vowels. *Selected papers from the 51st & 52nd Annual Conference on African Linguistics*.

Mayer, C., McCollum, A., & Eziz, G. (2022). Issues in Uyghur phonology. *Language and Linguistics Compass*, 16(12).

Mayer, C. (2021). Capturing gradience in long-distance phonology using probabilistic tier-based strictly local grammars. *Proceedings of the Society for Computation in Linguistics*. Vol. 4. Article 5.

Mayer, C., & Daland, R. (2020). A method for projecting features from observed sets of phonological classes. *Linguistic Inquiry*, 51(4), 725-763.

Gick, B., Mayer, C., Chiu, C., Widing, E., Roewer-Despres, F., Fels, S., Stavness, I. (2020). Quantal biomechanical effects in speech postures of the lips. *Journal of Neurophysiology* 124(3), 833-843.

Mayer, C. (2020). An algorithm for learning phonological classes from distributional similarity. *Phonology*, 37(1), 91-131.

Mayer, C., & Nelson, M. (2020). Phonotactic learning with neural language models. *Proceedings of the Society for Computation in Linguistics*. Vol. 3. Article 16.

Gick, B., Chiu, C., Widing, E., Roewer-Despres, F., Mayer, C., Fels, S., & Stavness, I. (2019). Quantal biomechanical effects in speech postures of the lips. In Calhoun, S., Escudero, P., Tabain, M., and Warren, P. (Eds), *Proceedings of the 19th International Congress of Phonetic Sciences, Melbourne, Australia 2019*: Canberra, Australia: Australasian Speech Science and Technology Association Inc., 1749-1753.

Graf, T., & Mayer, C. (2018). Sanskrit n-Retroflexion is Input-Output Tier-Based Strictly Local. *Proceedings of the 15th SIGMORPHON Workshop on Computational Research in Phonetics, Phonology, and Morphology*. The Special Interest Group on Computational Morphology and Phonology: Brussels, Belgium, 151-160.

Mayer, C., & Major, T. (2018). A challenge for tier-based strict locality from Uyghur backness harmony. In Foret, A., Kobele, G., and Pogodalla, S. (Eds). *Formal Grammar 2018. FG 2018. Lecture Notes in Computer Science, vol 10950*. Springer, Berlin, Heidelberg. doi: 10.1007/978-3-662-57784-4\_4

Major, T., & Mayer, C. (2018). Towards a phonological model of Uyghur intonation. In K. Klessa, J. Bachan, A. Wagner, M. Karpiński, and D. Śledziński (Eds). *Proceedings of the 9th Speech Prosody International Conference*. doi: 10.21437/SpeechProsody.2018

Mayer, C., Roewer-Despres, F., Stavness, I., & Gick, B. (2017). Do innate stereotypies serve as a basis for swallowing and learned speech movement? *Behavioral and Brain Sciences*, 40. doi:10.1017/S0140525X16001928

Mayer, C., Gick, B., Weigel, T., & Whalen, D.H. (2013). Perceptual Integration of Visual Evidence in the Airstream from Aspirated Stops. *Canadian Acoustics*, 41(3), 23-27.

Mayer, C., & Gick, B. (2012). Talking while Chewing: Speaker Response to Natural Perturbation of Speech. *Phonetica*, 69(3), 109-123.

### **Publications refereed by abstract**

Mayer, C., Major, T., & Yakup, M. (2022). Are neutral roots in Uyghur really neutral? Evaluating a covert phonemic contrast. In P. Jurgec, L. Duncan, E. Elfner, Y. Kang, A. Kochetov, B. O'Neill, A. Ozburn, K. Rice, N. Sanders, J. Schertz, N. Shaftoe, and L. Sullivan (Eds), *Supplemental Proceedings of the 2021 Annual Meeting on Phonology*. Washington, DC: Linguistic Society of America.

Mayer, C., Chiu, C., & Gick, B. (2021). Biomechanical simulation of lip compression and spreading. *Canadian Acoustics*, 49(3), 38-39.

Major, T., & Mayer, C. (2019). What indexical shift sounds like: Uyghur intonation and interpreting speech reports. In M. Baird and J. Pesetsky (Eds). *NELS 49: Proceedings of the Forty-Ninth Annual Meeting of the North East Linguistic Society*, 2, 255-264..

Mayer, C., Stavness, I., & Gick, B. (2018). A biomechanical model for infant speech and aerodigestive movements. *Canadian Acoustics*, 46(4), 30-31.

Mayer, C., Stavness, I., & Gick, B. (2018). A biomechanical model for infant speech and aerodigestive movements. *Journal of the Acoustical Society of America*, 144(3), Pt. 2: 1963. (published abstract).

Mayer, C., Roewer-Despres, F., Stavness, I., & Gick, B. (2016). Does Swallowing Bootstrap Speech Learning? *Journal of the Canadian Acoustical Association*, 44(3), 194-195.

Abel, J., Barbosa, A.V., Black, A., Mayer, C., & Vatikiotis-Bateson, E. (2011). The labial viseme reconsidered: Evidence from production and perception. In Y. Laprie and I. Steiner (Eds). *Proceedings of the 9th International Seminar on Speech Production*, 337-344.

Mayer, C. (2010). Voice onset time and the realization of voiced stops in Kwak'wala. In Proceedings of the 45th International Conference on Salish and Neighbouring Languages. *The University of British Columbia Working Papers in Linguistics*, 27, 238-244.

Mayer, C., Gick, B., Weigel, T., & Whalen, D.H. (2010). Perceptual effects of visual evidence of the airstream. *Canadian Acoustics*, 38(3), 126-127.

Mayer, C., Gick, B. & Ferch, E. (2009). Talking while chewing: Speaker response to natural perturbation of speech. *Canadian Acoustics*, 37(3), 144-145.

### **Books**

Gick, B., & Mayer, C. (in prep). *How bodies talk*.

### **Other publications**

Mayer, C. (2021). Issues in Uyghur backness harmony: Corpus, experimental, and computational studies (Unpublished doctoral dissertation). University of California, Los Angeles.

Mayer, C., Stavness, I., & Gick, B. (2018). Understanding how we speak using computational models of the vocal tract. Popular version of presentation at 176th Meeting of the Acoustical Society of America. Acoustical Society of America World Wide Press Room.  
<https://acoustics.org/5asc1-understanding-how-we-speak-using-computational-models-of-the-vocal-tract-connor-mayer/>

Mayer, C. (2018). An algorithm for learning phonological classes from distributional similarity (Unpublished master's thesis). University of California, Los Angeles.

### **Edited Volumes**

Szakay, A., Mayer, C., Rogers, B., Gick, B., & Dunham, J. (Eds.). (2009). *Papers for the Interlocution Conference. Interlocution: Linguistic structure and human interaction*. Vancouver, BC: The University of British Columbia Working Papers in Linguistics, 24.

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### **Presentations**

(\* indicates presenting author)

#### **Conference talks**

\*Mayer, C. Proposal: A repository for phonological software. Presented at the 2022 Annual Meeting on Phonology. October, 2022.

\*Mayer, C., Zuraw, K., & Tan, A. maxent.ot: A package for doing Maximum Entropy Optimality Theory in R. Presented at the 2022 Annual Meeting on Phonology. October, 2022.

\*Mayer, C., Chiu, C., & Gick, B. Biomechanical simulation of lip compression and spreading. Presented at Acoustics Week in Canada. October, 2021.

\*Weller, J., Faytak, M., Steffman, J., Texeira, G., Mayer, C., and Tankou, R. Tongue root position and laryngeal state in Yemba vowels. Presented at the 51st and 52nd Annual Conference on African Linguistics. April 2021.

\*Mayer, C. Capturing gradience in long-distance phonology using probabilistic tier-based strictly local grammars. Presented at the fourth annual meeting of the Society for Computation in Linguistics. Held virtually. February, 2021.

\*Mayer, C., Major, T., & Yakup, M. Conflicting trigger effects in Uyghur backness harmony. Presented at the 5th Workshop on Turkic and languages in contact with Turkic. Newark, Delaware. February 2020.

\*Mayer, C., Gick, B., Chiu, C., Widing, E., Roewer-Despres, F., Fels, S., Stavness, I. Quantal biomechanical effects in speech postures of the lips. Presented at the 19th International Congress of Phonetic Sciences (ICPhS). Melbourne, Australia. August, 2019.

Major, T., & \*Mayer, C. A phonological model of Uyghur intonation. Presented at the ICPhS Satellite Meeting on the Intonational Phonology of Typologically Rare or Understudied Languages. Melbourne, Australia. August, 2019.

\*Mayer, C., & Daland, R. A method for learning features from observed phonological classes. Presented at the 2019 Canadian Linguistics Association Meeting. Vancouver, BC. June, 2019.

\*Mayer, C., Major, T., & Yakup, M. Wug-testing Uyghur vowel harmony: Trigger conflicts, variation, and distance-based decay. Presented at the 27th Manchester Phonology Meeting. Manchester, England. May, 2019.

\*Mayer, C., & Major, T. A challenge for tier-based strict locality from Uyghur backness harmony. Formal Grammar 2018. Sofia, Bulgaria. August, 2018.

\*Mayer, C., Roewer-Despres, F., Stavness, I., & Gick, B. Does swallowing bootstrap speech learning? Acoustics Week in Canada. Vancouver, BC. September, 2016.

Abel, J., Barbosa, A., Black, A., Mayer, C., & \*Vatikiotis-Bateson, E. The labial viseme reconsidered: Evidence from production and perception. The 9th International Seminar on Speech Production. Montreal, QC. June, 2011.

\*Mayer, C., Gick, B., Weigel, T., & Whalen, D.H. Perceptual effects of visual evidence of the airstream. Acoustics Week in Canada. Victoria, BC. October, 2010.

\*Mayer, C., Gick, B., & Ferch, E. Talking while chewing: Speaker response to natural perturbation of speech. Acoustics Week in Canada. Niagara-on-the-Lake, ON. October, 2009.

### **Poster presentations**

\*Mayer, C. Gradient opacity in Uyghur backness harmony: A large-scale corpus study. Presented at the 29th Manchester Phonology Meeting. May, 2022.

Narkar, J., Khlystova, E.A., Mayer, C., Aly, A.M., Kim, J., & Sundara, M. Evaluating the learnability of vowel categories from infant-directed speech. To be presented at the 182nd meeting of the Acoustical Society of America. Denver, CO. May, 2022.

\*Mayer, C., Major, T., & Yakup, M. Are neutral roots in Uyghur really neutral? Experimental and structural evidence. Presented at the Annual Meeting on Phonology. Toronto, ON. October, 2021.

\*Mayer, C. Gradient opacity in Uyghur backness harmony. Presented at the Annual Meeting on Phonology. Santa Cruz, CA. September, 2020.

\*Mayer, C., & \*Nelson, M. Phonotactic learning with neural language models. Presented at the third annual meeting of the Society for Computation in Linguistics. New Orleans, LA. January, 2020.

\*Gick, B., & Mayer, C. Tonic activations in speech production. Presented at the 178th Meeting of the Acoustical Society of America. San Diego, CA. December, 2019.

\*Nelson, M., & Mayer, C. Learning and generalizing phonotactics with recurrent neural networks. Presented at the Annual Meeting on Phonology. Stony Brook, NY. October, 2019.

\*Mayer, C., Stavness, I., & Gick, B. A biomechanical model for infant speech and aerodigestive movements. Joint 2018 Acoustics Week in Canada and 176th Meeting of the Acoustical Society of America. Victoria, BC. November, 2018.

Sundara, M., & \*Mayer, C. Modeling developmental changes in infants' discrimination of English vowels. Boston University Conference on Language Development. Boston, MA. November, 2018.

Graf, T., & \*Mayer, C. Sanskrit n-retroflexion is Input-Output Tier-Based Strictly Local. SIGMORPHON 2018. Brussels, Belgium. October, 2018.

\*Mayer, C. An algorithm for learning phonological classes from distributional similarity. Annual Meeting on Phonology. San Diego, CA. October, 2018.

\*Major, T., & Mayer, C. What indexical shift sounds like: Uyghur intonation and interpreting speech reports. North East Linguistics Society. Ithaca, NY. October, 2018.

\*Sundara, M., & \*Mayer, C. Does the developing lexicon constrain infants' learning of English vowels? 2018 International Congress of Infant Studies. Philadelphia, PA. July, 2018.

\*Major, T., & \*Mayer, C. Towards a phonological model of Uyghur intonation. 9th International Conference on Speech Prosody. Poznań, Poland. June, 2018.

\*Sundara, M. & Mayer, C. Does the developing lexicon constrain infants' discrimination of English vowels? Fall Acoustical Society of America meeting in New Orleans. December, 2017.

\*Mayer, C. & Gick, B. Talking while chewing: Speaker response to natural perturbation of speech. Ultrafest V at Haskins Labs, Yale. New Haven, CT. March, 2010.

### **Invited Talks**

\*Mayer, C. Vowel raising processes in Uyghur. Guest lecture for Elementary Uyghur I taught by Gulnar Eziz. Harvard University. July 2021.

\*Mayer, C., Major, T., and Yakup, M. Phonetic biases and locality in Uyghur backness harmony. Department of Linguistics Colloquium Series. University of California, Los Angeles. June, 2021.

\*Mayer, C. Acquisition of speech sound categories. Department of Classics. Washington University in St. Louis. April, 2021.

\*Mayer, C. Acquisition of speech sound categories. Department of Linguistics. Boston University. March, 2021.

\*Mayer, C. Acquisition of speech sound categories. Department of Language Science. University of California, Irvine. February, 2021.

\*Mayer, C. Gradient opacity in Uyghur backness harmony. Department of Linguistics. University of Washington. February, 2021.

\*Mayer, C. Gradient opacity in Uyghur backness harmony. UC Berkeley Phonetics and Phonology Forum (Phorum). Berkeley, CA. October, 2020.

\*Major, T., & \*Mayer, C. A preliminary model of Uyghur intonation. Phonetics Circle, UCSB. Santa Barbara, CA. May, 2019.

\*Mayer, C. & Sundara, M. Modeling developmental changes in infants' discrimination of English vowels. Infant Studies Center, University of British Columbia. Vancouver, BC. December, 2018.

\*Mayer, C. Towards a computational model of emergent features. University of British Columbia West African Vowels Project Meeting. Vancouver, BC. October, 2018.

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***Grants,  
fellowships,  
and honors***

National Science Foundation (with Megha Sundara, PI), "A new approach to computational model evaluation: benchmarking against infant experimental data" (2022) - \$550,000

UCI, CORCL Research and Travel Funding (2022) - \$1600

UCI, ADVANCE Career Development Award (2021) - \$2000

UCLA, Dissertation Year Fellowship (2020) - \$37,272

Wisconsin Intensive Summer Language Institutes Partial Tuition Scholarship (2020) - \$2400

Central Eurasian Studies Summer Institute Tuition Remission (2020) - \$2400

Social Sciences and Humanities Research Council (SSHRC), Doctoral Fellowship (2017-2021) - \$80,000

SelfScore Scholarship for International Students (2016) - \$5000

UCLA, Graduate Dean's Scholar Award (2016) - \$14,500

UBC Computer Science Department Academic Award Of Excellence (BCS) (2013)

UBC, David Macaree Prize in English 301 (2010) - \$400

UBC Trek Excellence Scholarship for Continuing Students (2009)

UBC, Margaret Lawrence Scholarship in Arts (2008)

UBC, Timothy Martin Canfield Memorial Scholarship (2008)

UBC, Trek Excellence Scholarship for Continuing Students (2008)

UBC, Trek Excellence Scholarship for Continuing Students (2007)

UBC, Okamatsu Family Scholarship for Japanese Studies (2007)

UBC, President's Entrance Scholarship (2006)

Langara College, Leon and Simma Holt Arts and Science Scholarship (2006)

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**Teaching  
Experience**

**Instructor (UCI)**

Formal Languages (LSCI 109/209)	<i>Fall 2022</i>
Computational skills for language science research (LSCI 202A)	<i>Fall 2022</i>
Computational modeling of phonetic learning and adaptation using probabilistic inference approaches. Mini-course at the UCI Summer School on Computational Cognitive Modeling for Language.	<i>Summer 2022</i>
Intro to phonology (LSCI 10)	<i>Spring 2022</i>
Introduction to acoustic phonetics (LSCI 119/219)	<i>Winter 2022</i>
Computational skills for language science research (LSCI 202A)	<i>Fall 2021</i>

**Instructor (UCLA)**

Computational linguistics I (LING 185A)	<i>Summer 2020</i>
Computational linguistics I (LING 185A)	<i>Summer 2019</i>

**Teaching assistant (UCLA)**

Computational linguistics I (LING 185A), with Dr. Timothy Hunter	<i>Winter 2019</i>
Introduction to linguistic analysis (LING 20), with Dr. Carson Schütze	<i>Spring 2018</i>
Experimental phonetics (LING 104), with Dr. Patricia Keating	<i>Winter 2018</i>
Introduction to general phonetics (LING 103), with Dr. Patricia Keating	<i>Fall 2017</i>

**Teaching assistant (University of British Columbia)**

Basic algorithms and data structures (CPSC 221), with Dr. Alan Hu	<i>Spring 2013</i>
Languages of the world (LING 101), with Dr. Strang Burton	<i>Spring 2010</i>

**Guest lecturer**

Teaching demo (University of British Columbia) Lecture: Introduction to vector models of semantics	<i>March 2021</i>
Teaching demo (University of California, Irvine) Lecture: Introduction to vector models of semantics	<i>March 2021</i>
Computational linguistics I (LING 185A, UCLA) Lecture: A challenge for tier-based strict locality from Uyghur backness harmony	<i>Winter 2019</i>

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**Professional  
Service**

Ad-hoc reviewer for the *National Science Foundation*,  
*Phonological Data and Analysis*, *Laboratory Phonology*, *Frontiers in  
Psychology*, *Society for Computation in Linguistics*, *West Coast*

*Conference on Formal Linguistics, International Congress of Phonetic Sciences, Annual Meeting on Phonology, Southern California Undergraduate Linguistics Conference.*

Co-organizer, Workshop on Computational Approaches to Phonology (with Kie Zuraw). 2022 Annual Meeting on Phonology.	<i>April 2022 - October 2022</i>
First-Generation First Quarter Faculty Ally, UCI	<i>October 2021 - present</i>
Virtual Presence Manager (website, social media, Youtube), UCI Language Science	<i>July 2021 - present</i>
Co-organizer, UCI Summer School on Computational Cognitive Modeling for Language.	<i>August 2022</i>
Acting Colloquium Director, UCI Language Science	<i>January 2022 - June 2022</i>
Head of UCLA linguistics department open house committee	<i>September 2019 - March 2020</i>
Student volunteer, SALT 29	<i>May 2019</i>
Linguistics blog maintainer, UCLA	<i>September 2018 - June 2021</i>
Housing organizer, WCCFL 36	<i>April 20-22, 2018</i>
Food committee, UCLA linguistics department open house	<i>September 2017 - February 2018</i>
Vice president, Graduate Linguistics Circle, UCLA	<i>September 2017 - August 2018</i>
Organizer. Southern California April Meeting on Phonology	<i>May 6, 2017</i>
Linguistics department website committee member, UCLA	<i>January 2017 - June 2021</i>
Organizer. Interlocution Conference, Department of Linguistics, UBC	<i>May 15-17, 2009</i>

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***Employment  
Record***

<b>UCLA, Los Angeles, CA</b> Research Assistant, Department of Linguistics Supervisor: Dr. K. Zuraw <ul style="list-style-type: none"><li>Designed and implemented an R package for carrying out Maximum Entropy Optimality Theory analyses</li></ul>	<i>June 2020 - June 2021</i>
<b>UCLA, Los Angeles, CA</b> Research Assistant, Department of Linguistics Supervisor: Dr. H. Koopman <ul style="list-style-type: none"><li>Worked on Terraling, a website for managing linguistic datasets</li><li>Performed exploratory data analysis on linguistic data sets</li><li>Fixed bugs in the Ruby on Rails backend</li></ul>	<i>September 2017 - July 2018</i>



**University of British Columbia, Vancouver, BC**

*June 2016 – July 2016*

Program Development Consultant. Department of Linguistics.

Supervisor: Dr. B. Gick.

- Assisted with curriculum and program planning.
- Conducted market research and interviews with industry professionals.
- Wrote funding applications.
- Performed linguistics research.

**Demonware Inc., Vancouver, BC**

Software developer

*April 2013 – June 2016*

- Responsible for developing new scalable and robust online features for AAA video games, helping studios integrate Demonware technology into their games, and maintaining and updating existing Demonware services.
- Titles worked on in this time period include Skylanders Superchargers (title lead), Call of Duty Online (使命召唤Online), Guitar Hero Live, Call of Duty: Black Ops 3, Call of Duty: Advanced Warfare, Skylanders Trap Team, Diablo 3: Ultimate Evil Edition, Transformers: Rise of the Dark Spark (title lead), Call of Duty: Ghosts, and Skylanders Swap Force.

Software development intern

*July 2012 – September 2012*

- Performed research into how router QoS settings apply to and affect video game traffic.

Software development intern

*May 2011 – December 2011*

- Wrote ETL software for the Demonware data warehouse.
- Worked on an internal web application used by Demonware engineers and studios.
- Titles worked on in this time period include Call of Duty: Modern Warfare 3 and Skylanders: Spyro's Adventure.

**University of British Columbia, Vancouver, BC**

NSERC Undergraduate Student Research Assistant. Department of Linguistics.

*Summer 2010*

Supervisor: Dr. E. Vatikiotis-Bateson.

- Wrote scripts in Matlab and Python to automatically extract multiple maximum and minimum peaks from discrete signals and format and tag the expected data for use in R.
- Wrote scripts in Matlab and Python to take the integrals on specified intervals of discrete signals and format and tag the extracted data for use in R.
- Work from this position was used in Abel et al. (2011).

Work Study Assistant. Department of Linguistics

*2008 – 2010*

Supervisor: Dr. B. Gick.

- Designed and ran experiments examining speech perception and production.
- Wrote online quizzes for LING 313, Introduction to Linguistic Phonetics and Speech Science.
- Proofread grant applications and academic papers.
- Helped to organize an academic conference as liaison between speakers and organizers.
- Work from this position was used in Mayer et al. (2013).

NSERC Undergraduate Student Research Assistant. Department of Linguistics.

*Summer 2009*

Supervisor: Dr. B. Gick.

- Designed and ran experiments examining speech perception and production.
- Analyzed experimental ultrasound and acoustic data.
- Work from this position was used in Mayer & Gick (2012).

Graduate Research Assistant. Department of Asian Studies.

*Summer 2009*

Supervisor: Dr. A. Sathaye.

- Worked on a system for archiving and cataloging Asian folklore.

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**Affiliations*****Institutional affiliations***

*Visiting researcher*  
*Interdisciplinary Speech Research Lab, University of British Columbia*

*2016 - present*

***Professional organizations***

Member, Association for Laboratory Phonology  
Member, Canadian Acoustical Association

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***Computer Experience***

**Languages:** Python, C++, MySQL, C, Java, R, Matlab, Bash, Latex, Javascript, Erlang, Prolog, Haskell, Ruby  
**Source control:** git, SVN  
**Operating Systems:** Windows, OSX, Linux (Ubuntu and Centos)  
**Programs:** Visual Studio, XCode, Eclipse, Praat, ELAN, Palatoglossatron, Edgetrak, Psyscope, Artisynt

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***Languages***

**Native:** English  
**Proficient:** Japanese (JLPT Level 2)  
**Basic:** French, Spanish, Uyghur  
**Fieldwork:** Kwak'wala, Nuu-chah-nulth, Yemba

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***Non-degree training***

*Central Eurasian Studies Summer Institute - Intermediate Uyghur*

*June 2020 - August 2020*

*European Summer School in Language Logic and Information 2018, Sofia, Bulgaria*

*August 2018*