

# Matthew D. Faytak

Department of Linguistics  
College of Arts and Sciences  
University at Buffalo  
609 Baldy Hall  
Buffalo, NY 14260

Email: [faytak@buffalo.edu](mailto:faytak@buffalo.edu)  
Website: [mfaytak.github.io](http://mfaytak.github.io)  
Github: [github.com/mfaytak](https://github.com/mfaytak)

Last updated: October 21, 2021

## Education

- 2018 PhD Linguistics, University of California, Berkeley  
Chair: Keith Johnson  
*Articulatory uniformity through articulatory reuse: insights from an ultrasound study of Sūzhōu Chinese*
- 2013 MA Linguistics, University of California, Berkeley  
2011 AB Linguistics with Honors, University of Chicago

## Employment

- 2021–present Assistant Professor, Linguistics, University at Buffalo
- 2018–2021 Postdoctoral Fellow, Linguistics, University of California, Los Angeles  
Supervisor: Pat Keating
- 2018–2021 Lecturer, Linguistics, University of California, Los Angeles

## Grants, honors & awards

- 2016 Raymond H. Stetson Scholarship in Phonetics and Speech Science (\$23,000), Acoustical Society of America  
*Motor learning bias and articulatory habit*
- 2015 Raymond H. Stetson Scholarship in Phonetics and Speech Science (Honorable Mention), Acoustical Society of America
- 2014 Pre-Doctoral Fellowship (\$6,000), West African Research Association  
*Documenting words, language use, and multilingualism in Kom and Oku*
- 2014 Student Abstract Award (2<sup>nd</sup> place), Linguistic Society of America 2014 Annual Meeting  
*Chain shifts, strident vowels, and expanded vowel spaces*
- 2013 Oswalt Endangered Languages Grant (\$3,960), UC Berkeley Dept. of Linguistics  
*Nez Perce phonetics, discourse, and lexicon*
- 2011 Phi Beta Kappa, Beta Chapter of Illinois, University of Chicago

## Publications

### Peer-reviewed publications

- To appear Faytak, Matthew. Place uniformity and drift in the Suzhounese fricative and apical vowels. *Linguistics Vanguard*.
- 2021 Faytak, Matthew and Pius W. Akumbu. Kejom (Babanki). *Journal of the International Phonetic Association* 51(2), pp. 333–354.
- 2020 Faytak, Matthew, Suyuan Liu, and Megha Sundara. Nasal coda neutralization in Shanghai Mandarin: Articulatory and perceptual evidence. *Laboratory Phonology* 11(1), 23.
- 2020 Rolle, Nicholas, Florian Lionnet, and Matthew Faytak. Areal patterns in the vowel systems of the Macro-Sudan Belt. *Linguistic Typology* 24(1), p. 113–179.

### Edited volumes (refereed)

- To appear Faytak, Matthew. High vowel fricativization in Northern Wu Chinese and its neighbors. In Dankmar Enke, Thilo Weber, Larry Hyman, Johanna Nichols, and Guido Seiler (eds.), *Language Change for the Worse*.

### Refereed conference proceedings

- 2021 Faytak, Matthew, Pertti Palo, and Scott Moisić. The Speech Articulation Toolkit (SATKit): Ultrasound image analysis in Python. Proc of ISSP 12.
- 2019 Faytak, Matthew, Jennifer Kuo, and Shunjie Wang. Lingual articulation of the Sūzhōu Chinese labial fricative vowels. ICPhS 19, Melbourne.
- 2019 Kochetov, Alexei, Matthew Faytak, and Kiranpreet Nara. Manner differences in the Punjabi dental-retroflex contrast: An ultrasound study of time-series data. ICPhS 19, Melbourne.
- 2018 Kochetov, Alexei, Matthew Faytak, and Kiranpreet Nara. The retroflex-dental contrast in Punjabi stops and nasals: A principal component analysis of ultrasound images. Interspeech 2018.
- 2016 Cheng, Andrew, Matthew Faytak, and Meg Cychosz. Language, race, and vowel space: Contemporary Californian English. *Proceedings of BLS 42*. Berkeley Linguistics Society.
- 2015 Faytak, Matthew and Susan Lin. Articulatory variability and fricative noise in Standard Mandarin apical vowels. ICPhS 18, Glasgow.
- 2014 Faytak, Matthew. Dissimilation by surface correspondence in Aghem velarized diphthongs. Kingston, John, Moore-Cantwell, Claire, Pater, Joe and Staubs, Robert (eds.), *Proceedings of the 2013 Meeting on Phonology*. Linguistic Society of America.
- 2012 Faytak, Matthew. Compiling sonority scales with obstruent vowels. In Kayla Carpenter, Oana David, Christine Sheil, Tammy Stark, and Vivian Wauters (eds.), *Proceedings of BLS 38*. Berkeley Linguistics Society.
- 2011 Faytak, Matthew and Alan C. L. Yu. A typological study of the interaction between level tones and duration. ICPhS 17, Hong Kong.

### Edited volumes (non-refereed)

- 2017 Faytak, Matthew. Sonority in some languages of the Cameroon Grassfields. In Martin J. Ball and Nicole Müller (eds.), *Challenging Sonority: Cross-*

- 2014 *Linguistic Evidence*. Equinox Press.  
 Faytak, Matthew. High vowel fricativization and chain shift. In Keith Johnson (ed.), *UC Berkeley Phonology Laboratory Annual Report*. University of California, Berkeley.

## Talks and posters

### Invited talks

- 2022 Towards a basic portable ultrasound toolkit. In "Suitcase phonetics: Creating a portable phonetics laboratory", symposium at LSA 2022.  
 2019 Using dimensionality reduction and machine learning to reveal the structure of sound systems. Colloquium, University at Buffalo.  
*Also given at* Colloquium, University of Ottawa.  
 2019 Change and inertia in Jiāngnán: an ultrasound study of fricative vowels in Sūzhōu Chinese. Workshop on Language Diversity, Contact and Change, University of Chicago and Tsinghua University, Beijing, China.  
 2017 Good-enough articulatory re-use and phonological structure. Fudan University, Shanghai, China.  
 2014 High vowels in the Cameroon Grassfields. Université Yaoundé I, Yaoundé, Cameroon.  
*Also given at* Bamenda Linguistic Circle, CABTAL, Bamenda, Cameroon

### Conference talks and posters

- 2022 Shao, Bowei and Matthew Faytak. Degrees of frication in three Chinese varieties' vowels. LSA 96, Washington, DC.  
 2021 Weller, Jae, Matthew Faytak, Jeremy Steffman, Connor Mayer, G. Teixeira, and Rolain Tankou. Tongue root position and laryngeal state in Yemba vowels. ACAL 51-52, virtual.  
 2021 Faytak, Matthew and Jeremy Steffman. Mixed voice in Yemba voiced aspirates. LSA 95, virtual.  
 2020 Ahn, Suzy, Matthew Faytak, and Harim Kwon. Tongue root position during Mandarin Chinese stops. ASA: Acoustics Virtually Everywhere.  
 2020 Kim, Ji Young, Matthew Faytak, Gemma Repiso Puigdemallura, and Erin Mauffray. Articulation of non-normative variants of L1 and L2 Spanish trill /r/. ASA: Acoustics Virtually Everywhere.  
 2020 Mauffray, Erin, Matthew Faytak, and Ji Young Kim. Lateral articulation of the Spanish trill /r/. ASA: Acoustics Virtually Everywhere.  
 2020 Faytak, Matthew, Jeremy Steffman, and Rolain Tankou. True voiced aspirates in Yemba. LabPhon 17, Vancouver.  
 2020 Liu, Suyuan, Matthew Faytak, and Megha Sundara. Production and perception of the coda nasals in Shanghai Mandarin. LabPhon 17, Vancouver.  
 2020 Faytak, Matthew. Articulatory, but not acoustic, target uniformity in Suzhou Chinese. LSA 94, New Orleans.  
 2020 Liu, Suyuan and Matthew Faytak. Articulation and perception of Mandarin coda nasals by Shanghainese-Mandarin bilinguals. LSA 94, New Orleans.  
 2019 Faytak, Matthew, Jacob Aziz, Phillip Barnett, Jinyoung Jo, Jennifer Kuo, G. Teixeira, Joy Wu, Z.L. Zhou, and Patricia Keating. Flap articulation and lowered fourth formant. ASA 178, San Diego.

- 2019 Faytak, Matthew. Uniformity constrains innovative variants of the Suzhou Chinese fricative vowels. 5<sup>th</sup> Workshop on Sound Change, Davis, CA.
- 2019 Faytak, Matthew. Structured variation in Suzhou Chinese fricative consonants and vowels. ASA 177, Louisville.
- 2019 Faytak, Matthew, Jennifer Kuo, and Shunjie Wang. Trade-offs between labial and lingual activity in the Suzhou Chinese labial fricative vowels. ASA 177, Louisville.
- 2019 Faytak, Matthew and Pius Akumbu. Vowel assimilation to onset place in Kejom. ACAL 50, Vancouver.
- 2019 Faytak, Matthew and Pius Akumbu. A segmental reconstruction of Proto-Central Ring. ACAL 50, Vancouver.
- 2018 Faytak, Matthew. Vowel place contrasts in Suzhou Chinese. LabPhon 16, Universidade de Lisboa, Lisbon, Portugal.
- 2018 Faytak, Matthew. Motor attractors mediate articulation of the Suzhou Chinese fricative vowels. 92<sup>nd</sup> Annual Meeting of the LSA, Salt Lake City.
- 2017 Faytak, Matthew. Articulatory reuse in good-enough speech production strategies. Acoustics '17 (ASA/EAA joint meeting), Boston.
- 2017 Faytak, Matthew. Fricativisation of high vowels as a motor planning improvement. Language Change for the Worse, Ludwig Maximilian University, Munich, Germany.
- 2017 Faytak, Matthew. Measuring changes in articulatory dimensionality in an L2 production task (poster). 91<sup>st</sup> Annual Meeting of the LSA, Austin, TX.
- 2016 Faytak, Matthew. Articulatory habit vs. adaptive flexibility in L2 phone learning (poster). ASA/ASJ 5<sup>th</sup> Joint Meeting, Honolulu.
- 2016 Faytak, Matthew. Articulatory uniformity in the Suzhou fricative vowel (poster). LabPhon 15, Cornell University, Ithaca, NY.
- 2016 Faytak, Matthew and Keith Johnson. Evaluating a new measure of fricative source intensity (poster). LabPhon 15, Cornell University, Ithaca, NY.
- 2016 Cheng, Andrew, Matthew Faytak and Margaret Cychosz. Language, race, and vowel space: Contemporary California English. BLS 42, University of California, Berkeley.
- 2015 Faytak, Matthew. High vowel fricativization as an areal feature of the northern Cameroon Grassfields. WOCAL 8, Kyoto University.
- 2015 Faytak, Matthew. Temporal organization of frication in fricativized vowels (poster). ASA 169, Pittsburgh.
- 2015 Faytak, Matthew. Variation and change in Kom fricativized vowels. ACAL 46, University of Oregon.
- 2015 Merrill, John and Matthew Faytak. Bantu Spirantization is a reflex of vowel spirantization. ACAL 46, University of Oregon.  
*Also given at* Sound Change in Interacting Human Systems, UC Berkeley.
- 2014 Faytak, Matthew. Chain shifts, strident vowels, and expanded vowel spaces (poster). LSA annual meeting, Minneapolis.
- 2012 Faytak, Matthew. Obstruent vowels in Kom. ACAL 44, Georgetown University.

## Teaching

### As instructor

- 2021 Phonetics (LIN 431/531)  
University at Buffalo

- 2021 Structure of English: Sound System (LIN 301)  
University at Buffalo
- 2021 Seminar: Corpora and speech production research (LING 251)  
University of California, Los Angeles
- 2020 Introduction to Applied Phonetics (LING 102)  
University of California, Los Angeles
- 2018–19 Introduction to General Phonetics (LING 103)  
University of California, Los Angeles
- 2017 Endangered Languages (LINGUIS R1B)  
University of California, Berkeley
- 2016 Language and Linguistics (LINGUIS 5)  
University of California, Berkeley (summer session)

### **As guest instructor**

- 2019 Speech Production (LING 204B)  
University of California, Los Angeles (instructor: Pat Keating)
- 2019 Spanish Phonology (SPAN 202A)  
University of California, Los Angeles (instructor: Ji Young Kim)
- 2019 Introduction to Applied Phonetics (LING 102)  
University of California, Los Angeles (instructor: Megha Sundara)
- 2019 Introduction to Applied Phonetics (LING 103)  
University of California, Los Angeles (instructor: Megha Sundara)

### **As teaching assistant**

- 2018 Language in the United States: A Capsule History (LINGUIS 155AC)  
University of California, Berkeley
- 2015 Introduction to Phonology and Morphology (LINGUIS 115)  
University of California, Berkeley
- 2014, 2016 Introduction to Phonetics and Phonology (LINGUIS 110): two semesters  
University of California, Berkeley
- 2013 Introduction to Linguistic Science (LINGUIS 100)  
University of California, Berkeley

### **Other employment**

- 2017 Student Intern, Neurological Surgery (sup. Edward Chang)  
University of California, San Francisco

### **Service**

#### **Mentorship**

- 2019 Faculty mentor, UCLA honors thesis (Suyuan Liu)  
University of California, Los Angeles
- 2014–17 Mentor, Linguistics Research Apprenticeship Practicum  
University of California, Berkeley

2012 Linguistic Mentor, Breath of Life workshop (Northern/Southeastern Pomo)  
University of California, Berkeley

### **Review**

2021 Phonological Data Analysis  
2021 Nordic Journal of African Studies  
2021 Swiss Nat'l Science Foundation (grant)  
2020-2021 Journal of Phonetics  
2019-2021 Journal of the International Phonetic Association  
2019 Language and Speech  
2019 Laboratory Phonology  
2019 Diachronica  
2016 Proceedings of Annual Conference in African Linguistics 47

### **Organizing**

2020–pres. Technical program organizer, Speech Communication. Acoustical Society  
of America Spring 2020 meeting (postponed).  
2019 Organizer, special session: Articulatory and acoustic uniformity in phonetic  
structure (with Eleanor Chodroff). ICPHS 19, Melbourne.  
2016 Organizing committee, Annual Conference in African Linguistics 47  
2013–14 Co-organizer, Phonetics and Phonology Forum (UC Berkeley)  
2013 Organizing committee, Berkeley Linguistic Society 39

### **Professional affiliations**

2015–pres. Acoustical Society of America  
2015–pres. Association for Laboratory Phonology  
2012–pres. Linguistic Society of America  
2012–pres. Association for Contemporary African Linguistics

### **Research skills**

#### **Languages**

Native English (American)  
Moderate French, Standard Chinese

#### **Articulatory instrumental methods**

Ultrasound (Telemed, Ultrasonix systems), electromagnetic articulography  
(NDI systems), electroglottography

#### **Computing**

Python (scripting, development, OpenSesame UI), R (statistical analysis,  
data visualization), Praat (scripting, UI), Jupyter notebook, Git, MATLAB