

## Kristine M. Yu

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CONTACT INFORMATION	Assistant Professor Department of Linguistics University of Massachusetts Amherst 150 Hicks Way Amherst, MA 01003 USA	<i>Phone:</i> +1-413-545-0885 <i>Fax:</i> +1-413-545-2792 <i>E-mail:</i> krisyu@linguist.umass.edu <i>WWW:</i> www.krisyu.org
RESEARCH INTERESTS	<b>Prosody, from the speech signal on up:</b> tone, intonation, phonetics, phonology, mathematical modeling of speech, language learning and variation, human language processing	
ACADEMIC APPOINTMENTS	<b>Assistant Professor</b> Department of Linguistics, University of Massachusetts	September 2011 – present
	<ul style="list-style-type: none"><li>• Affiliations:<ul style="list-style-type: none"><li>◦ Institute for Computational and Experimental Study of Language</li><li>◦ UMass Phonetics Lab</li></ul></li></ul>	
	<b>Postdoctoral Researcher</b> Department of Linguistics, University of Maryland College Park	September 2011 – June 2012
EDUCATION	<b>University of California Los Angeles</b> , Los Angeles, CA	
	Ph.D., Linguistics, September 2011	
	<ul style="list-style-type: none"><li>• Thesis Topic: The learnability of tones from the speech signal</li><li>• Advisers: Professor Edward Stabler, Professor Megha Sundara</li></ul>	
	M.A., Linguistics, December 2008	
	<ul style="list-style-type: none"><li>• Thesis Topic: The prosody of second position clitics and focus in Zagreb Croatian</li><li>• Adviser: Professor Sun-Ah Jun</li></ul>	
	<b>Otto-von-Guericke-Universität Magdeburg</b> , Magdeburg, Germany	
	Fulbright scholar, Abteilung Biophysik, September 2004 – August 2005	
	<ul style="list-style-type: none"><li>• Synchronization of glycolytic oscillations in yeast cell populations</li></ul>	
	<b>Stanford University</b> , Stanford, CA	
	B.S. Chemistry, June 2004	
	<ul style="list-style-type: none"><li>• With distinction</li><li>• Minor in physics</li></ul>	
	<b>University of Southern California</b> , Los Angeles, CA	
	August 2000 – May 2001	
	<ul style="list-style-type: none"><li>• Trustee Scholar</li><li>• Resident Honors Program</li></ul>	
HONORS	<b>University of Massachusetts Institute for Social Science Research</b>	
	<ul style="list-style-type: none"><li>• Social Science Research Scholar, 2014 – 2015</li></ul>	
	<b>National Science Foundation</b>	
	<ul style="list-style-type: none"><li>• Graduate Research Fellowship, 2008 – 2011</li></ul>	
	<b>Ohio State University Research Foundation</b>	
	<ul style="list-style-type: none"><li>• Machine Learning Summer School/Workshop 2009 Travel Grant</li></ul>	

### University of California Los Angeles

- Department of Linguistics Ladefoged Scholarship Award, 2010
- Graduate Research Mentorship Program Fellowship, 2007 – 2008
- Summer Graduate Research Mentorship Program Fellowship, 2007, 2008
- Linguistic Society of America Linguistic Institute Fellowship, 2007
- Humanities Dean's Fellowship, 2006 – 2007

### Institute of International Education Fulbright Program

- Fulbright Scholarship, Germany, 2004 – 2005
- Fulbright Enterprise Scholarship, Germany (4/107 grantees selected), 2004 – 2005

### Deutscher Akademischer Austausch Dienst

- DAAD study scholarship, 2004 (Declined)

### Barry Goldwater Scholarship and Excellence in Education Program

- Barry Goldwater scholarship, 2003

#### GRANTS

Andrew Mellon Foundation / Center for Teaching & Faculty Development at the University of Massachusetts Amherst, “Five Colleges Prosody Community”, \$10,000, 2013 – 2014.

Consultant, “Effects of Syntactic Constituency on Phonology and Phonetics of Tone” (PI: Lisa Selkirk), NSF, *Behavioral and Cognitive Sciences*, Award 1147083, \$361,283.00, July 1, 2012 – December 31, 2015.

#### REFEREED JOURNAL PUBLICATIONS

- [1] Yu, Kristine M. (Under review). Temporal resolution in the perception of Cantonese tone.
- [2] Yu, Kristine M. and Hiu Wai Lam. (Under review). The role of creaky voice in Cantonese tone perception.
- [3] Yu, Kristine M. (Accepted). The experimental state of mind in elicitation: illustrations from tonal fieldwork. *Language Documentation & Conservation*. [manuscript, supplementary materials]
- [4] Zuraw, Kie Ross, Yu, Kristine M., and Robyn Orfitelli. (Under review). Word-level prosody of Samoan. *Phonology*.
- [5] J. Liu, S. Louie, W. Hsu, **K. M. Yu**, H. B. Nicholas, and G. L. Rosenquist. (2008). Tyrosine sulfation is prevalent in human chemokine receptors important in lung disease. *American Journal of Respiratory Cell and Molecular Biology*, 38: 738–743. doi:10.1165/rcmb.2007-0118OC
- [6] Y. R. Thorstenson, A. Roxas, R. Kroiss, M. A. Jenkins, **K. M. Yu**, T. Bachrich, D. Muhr, T. L. Wayne, G. Chu, R. W. Davis, T. M. U. Wagner, and P. J. Oefner. (2003). Contributions of *ATM* mutations to familial breast and ovarian cancer. *Cancer Research*, 63: 3325–3333. <http://cancerres.aacrjournals.org/cgi/content/abstract/63/12/3325>
- [7] A. S. Torralba, **K. Yu**, P. Shen, P. J. Oefner, and J. Ross. (2003). Experimental test of a method for determining causal connectivities of species in reactions. *Proc. Natl. Acad. Sci. USA*, 100: 1494–1498. doi:10.1073/pnas.262790699
- [8] **K. M. Yu**, J. Liu, R. Moy, H. C. Lin, H. B. Nicholas, and G. L. Rosenquist. (2002). Prediction of tyrosine sulfation in seven-transmembrane peptide receptors. *Endocrine*, 19: 333–337. doi:10.1385/ENDO:19:3:333
- [9] S. Šale, R. Sung, P. Shen, **K. Yu**, Y. Wang, G. Duran, J. Kim, T. Fojo, P. J. Oefner, and B. I. Sikic. (2002). Conservation of the class I  $\beta$ -tubulin gene in human populations and lack of mutations in lung cancers and paclitaxel-resistant ovarian cancers. *Molecular Cancer Therapeutics*, 1: 215–225. <http://mct.aacrjournals.org/content/1/3/215.short>

BOOK CHAPTERS	<p>[1] Kuo, Grace C.-H. and Kristine M. Yu. (2012). Taiwan Mandarin quantifiers. In <i>Handbook of Quantifiers in Natural Language</i>, ed. Edward Keenan and Denis Paperno, pp. 647 – 698. doi:10.1007/978-94-007-2681-9_12 [pdf]</p>
CONFERENCE PROCEEDINGS	<p>[1] Yu, Kristine M., Khan, Sameer ud Dowla, and Sundara, Megha. (submitted). Intonational phonology in Bengali and English infant-directed speech. <i>Speech Prosody</i> 2014.</p> <p>[2] Yu, Kristine M. (2011). The sound of ergativity: morphosyntax-prosody mapping in Samoan. In: Suzi Lima, Kevin Mullin, Brian Smith, eds., <i>Proceedings of the 39th Annual Meeting of the North East Linguistic Society</i>, Vol. 2, Graduate Linguistic Student Association, Amherst, MA, pps. 825 – 838. [pdf]</p> <p>[3] Yu, Kristine M. (2011). Temporal resolution in Cantonese tone perception. In: <i>Proceedings of The Psycholinguistic Representation of Tone</i>.</p> <p>[4] Yu, Kristine M. and Hiu Wai Lam. (2011). The role of creaky voice in Cantonese tonal perception. In: <i>Proceedings of the 17th International Congress of Phonetic Sciences</i>, 2240 – 2243. [pdf]</p> <p>[5] Shue, Yen-Liang, Keating, Patricia, Vicenik, Chad, and Kristine Yu. (2011). VoiceSauce: a program for voice analysis. In: <i>Proceedings of the 17th International Congress of Phonetic Sciences</i> 1846 – 1849. [pdf]</p> <p>[6] Yu, Kristine M. Laryngealization and features for Chinese tonal recognition. (2010). In: <i>Proceedings of Interspeech 2010</i>, 1529 – 1532. [web, pdf]</p> <p>[7] Yu, Kristine M. (2009). The prosody of second position clitics and focus in Zagreb Croatian. In: Maria Babyonyshev, Daria Kavitskaya, Jodi Reich, eds., <i>Formal Approaches to Slavic Linguistics #17: The Yale Meeting 2008.</i>, Michigan Slavic Publications, Ann Arbor, MI, pps. 253 – 270. [pdf]</p>
TECHNICAL REPORTS	<p>[1] Yu, Kristine M. (2010). Representational maps from the speech signal to phonological categories: a case study with lexical tones. In: Thomas Graf, ed., <i>UCLA Working Papers in Linguistics, Papers in Mathematical Linguistics</i> 1, Volume 15, Article 5: 1 – 30. [pdf]</p>
POPULAR ARTICLES	<p>[1] Kristine M. Yu, Sameer ud Dowla Khan, Alejandrina Cristia, Huei-Mei Liu, Megha Sundara (2011). <a href="#">The joint purpose of pitch patterns in "motherese": drawing attention and conveying language structure</a>. ASA Lay Language Papers 162nd Acoustical Society of America Meeting.</p>
INVITED TALKS	<p>[1] Yu, Kristine M. (2014). The sound of ergativity: tonal marking of absolutive case in Samoan. McGill University Workshop on Syntax-Prosody Mapping in Verb-Initial Languages. May 2014.</p> <p>[2] Yu, Kristine M. (2013). Phonological structure in infant directed speech. Stonybrook University Linguistics Colloquium. September 2013.</p> <p>[3] Yu, Kristine M. (2012). The learnability of tones from the speech signal. New York University Linguistics Colloquium. November 30, 2012.</p> <p>[4] Yu, Kristine M. (2012). Samoan morphosyntax-prosody mapping. University of Maryland Linguistics Colloquium. February 3, 2012.</p> <p>[5] Yu, Kristine M. (2011). The learnability of tones from the speech signal. Macquarie University Linguistics Colloquium. November 30, 2011.</p> <p>[6] Yu, Kristine M. (2011). Speech rhythm and acquisition. Macquarie University Child Language Lab. November 29, 2011.</p>

- [7] Yu, Kristine M. (2011). The learnability of tones from the speech signal. Harvard University Linguistics Colloquium. November 15, 2011.
- [8] Yu, Kristine M. (2011). The learnability of tones from the speech signal. University of California San Diego Linguistics Colloquium. November 7, 2011.
- [9] Yu, Kristine M. (2011) The learnability of language-specific f0-based rhythmic patterns. 162nd meeting of the Acoustical Society of America. November 4, 2011.
- [10] Yu, Kristine M. (2011). The learnability of tones from the speech signal. Northeast Computational Phonology Circle. Yale University. October 15, 2011.
- [11] Yu, Kristine M. (2011). The learnability of tones from the speech signal. University of Delaware Linguistics and Cognitive Science Colloquium. October 7, 2011.
- [12] Yu, Kristine M. (2011). Studying language learning from the speech signal. Institute for Computational and Experimental Study of Language Launch, University of Massachusetts, Amherst, April 1, 2011.
- [13] Yu, Kristine M. (2011). How to study how tones are learned. Workshop on how to study a tone language: from the first elicitation to the latest software. University of California, Berkeley, February 21, 2011.
- [14] Yu, Kristine M. (2011). Inductive biases for learning phonological categories. University of Massachusetts, Amherst, February 15, 2011.
- [15] Yu, Kristine M. (2011). Discovering the intonational phonology of Samoan: a fieldwork tutorial. University of Massachusetts, Amherst, February 14, 2011.
- [16] Yu, Kristine M. (2009). The sound of ergativity: morphosyntax-prosody mapping in Samoan. University of Chicago Workshop on Language, Cognition, and Computation, June 5, 2009.

REFEREED  
CONFERENCE AND  
WORKSHOP  
PRESENTATIONS

- [1] Yu, Kristine M., and Hiu Wai Lam. (2011). The role of creaky voice in Cantonese tonal perception. International Congress of Phonetic Sciences XVII, Hong Kong, 2011.
- [2] Yu, Kristine M. (2011). Representations for learning phonological categories. Linguistics Society of America, Pittsburgh, PA, January 7, 2011.
- [3] Yu, Kristine M. (2011). Coarse representations for phonemic categories. North Eastern Linguistic Society 41, Philadelphia, PA, October 23, 2010.
- [4] Yu, Kristine M. (2009). The sound of ergativity: morphosyntax-prosody mapping in Samoan. Austronesian Formal Linguistics Association XVI, UC Santa Cruz, CA.
- [5] Yu, Kristine M. (2009). The sound of ergativity: morphosyntax-prosody mapping in Samoan. Linguistics Society of America, San Francisco, CA.
- [6] Yu, Kristine M. (2008). The sound of ergativity: morphosyntax-prosody mapping in Samoan. North East Linguistic Society 39, Ithaca, NY.
- [7] Zuraw, Kie, Orfitelli, Robyn, and Kristine Yu. (2008). Word-level prosody of Samoan. Austronesian Formal Linguistics Association XV, Sydney, Australia.
- [8] Yu, Kristine. (2008). The prosody of second position clitics and focus in Zagreb Croatian. Formal Approaches to Slavic Linguistics 17, New Haven, CT, May 11, 2011.

CONFERENCE  
POSTERS

- [1] Khan, Sameer ud Dowla and Kristine M. Yu. (2014). Intonational phonology in infant-directed speech. Linguistics Society of America, Minneapolis, MN.
- [2] Silverstein, Kate and Kristine M. Yu. (2013). Investigating tonal spaces using an extension of VoiceSauce voice analysis software. Acoustical Society of America, San Francisco, CA, December 2013.
- [3] Yu, Kristine M., Khan, Sameer ud Dowla and Megha Sundara. (2011). A cross-linguistic investigation of information structure in infant-directed speech. Experimental and Theoretical Approaches to Prosody, September 23, 2011.
- [4] Khan, Sameer, Yu, Kristine M., and Jaime Roemer. (2011). Speech rhythm and f0 patterns in Bengali: implications for prosodic acquisition. Acoustical Society of America, Seattle, WA, May 27, 2011.
- [5] Yu, Kristine M. (2011). Acoustic representations for tonal phonological categories. Acoustical Society of America, Seattle, WA, May 23, 2011.
- [6] Yu, Kristine M. (2010). Laryngealization and features for Chinese tonal recognition. Interspeech 2010, Makuhari, Japan, September 14, 2010.
- [7] Yu, Kristine. (2010). Linear separability and feature selection in the acquisition of tone. LabPhon 12, Albuquerque, NM, July 8, 2010.
- [8] Lam, Hiu Wai and Kristine M. Yu. (2010). The role of creaky voice quality in Cantonese tonal perception. Acoustical Society of America, Baltimore, MD, April 23, 2010.
- [9] Yu, Kristine M., Lam, Hiu Wai, and Shing-Yin Li. (2010). An acoustic and electroglottographic study of Cantonese tone. Acoustical Society of America, Baltimore, MD, April 23, 2010.
- [10] Yu, Kristine M. (2010). Linear separability and feature selection in the acquisition of tone. Computational Modelling of Sound Pattern Acquisition, University of Alberta, Feb. 14, 2010.
- [11] Yu, Kristine M. (2009). Contextual tonal variation in level tone languages. Acoustical Society of America, Portland, OR.
- [12] Orfitelli, Robyn and Kristine Yu. (2009). The intonational phonology of Samoan. Austronesian Formal Linguistics Association XVI, UC Santa Cruz, CA.
- [13] Yu, Kristine. (2008). The prosody of second position clitic placement and focus in Zagreb Croatian. Acoustics'08, Acoustical Society of America, Paris, France.

STUDENT  
ADVISING

**Doctoral dissertation committees**

- Mullin, Kevin (in progress).
- Pizzo, Presley (in progress).

**Generals paper committees**

- Conner, Tracy (in progress).
- Fainleib, Yelena (in progress).
- Nazarov, Aleksei (2013). *Generalization in phonological representations: a learning-based argument for grammars with multiple levels of representation.*
- Fainleib, Yelena (2013). *Relative scaling of prosodic boundaries size in sentence production.*
- Elzman, Minta (2013). *Vowel devoicing and syllable position in Uzbek.*
- Moore-Cantwell, Claire (2012). *Syntactic probability influences duration.*

TEACHING  
EXPERIENCE

**University of Massachusetts Amherst, Amherst, MA**

*Instructor*

**September 2012 – present**

- **LINGUIST 592B:** Speech processing (Graduate)
  - Spring 2014 (with Kate Silverstein)
- **LINGUIST 751:** Topics in Phonology (Graduate)
  - Spring 2014 (co-taught with Brian Dillon; *Prosodic parsing*)
- **LINGUIST 716:** Topics in Phonetics (Graduate)
  - Fall 2013 (co-taught with John Kingston; *Categories*)
- **LINGUIST 606:** Phonological Theory (Graduate)
  - Spring 2013
- **LINGUIST 748:** Structure of a non Indo-European Language (Graduate)
  - Spring 2013 (co-taught with Alice Harris; Language: **Dzongkha**)
- **LINGUIST 730:** Proseminar Phonological Theory (Graduate)
  - Fall 2012 (*Prosodic theory*)

**University of California Los Angeles, Los Angeles, CA**

*Instructor / course designer*

**January 2009 – June 2010**

- **LING 254A/B:** Quantitative methods in linguistics (Graduate)
  - Winter 2010
  - Winter 2009 (with Megha Sundara and Kie Zuraw; Statistics and R practicum)

*Teaching Assistant*

**March 2009 – December 2010**

- **LING 104:** Experimental phonetics (Undergraduate)
  - Fall 2010 (with Sun-Ah Jun)
- **Honors Collegium 56:** Language as a window to the mind (Undergraduate)
  - Spring 2009 (with Susie Curtiss)

PROFESSIONAL  
SERVICE

**Ad-hoc reviewing**

*Journals*

- **??Lingua**, 2013 – 2014
- *Journal of the International Phonetic Association*, 2013
- *Language Documentation & Conservation*, 2013
- *Journal of the Acoustical Society of America*, 2011 – 2013
- *Journal of Phonetics*, 2011

*Conferences*

- *Tonal Aspects of Language*, 2014
- *Phonology 2013*
- *Linguistic Society of America Annual Meeting*, 2012 – 2014
- *West Coast Conference on Formal Linguistics*, 2012 – 2014

PROFESSIONAL  
MEMBERSHIPS

- Linguistic Society of America (2007 – present)
- Acoustical Society of America (2008 – present)
- International Speech Communication Association (2008 – present)
- Cognitive Science Society (2010 – present)

DEPARTMENTAL  
SERVICE

- Library liaison, 2013 – 2014
- Admissions Committee, 2012 – 2013