

CURRICULUM VITAE

PERSONAL DETAILS

Name: Yi Xu
Present appointment: Reader in Speech Sciences (equivalent of Associate Professor)
Address: Chandler House, 2 Wakefield Street, London WC1N 1PF, UK
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EDUCATION

B.A. 1981 Department of Foreign Languages (English language and literature)
Shandong University, Jinan, China.
M.A. 1984 Institute of Linguistics (Phonetics)
Chinese Academy of Social Sciences, Beijing, China
Ph.D. 1993 Department of Linguistics (Phonetics)
The University of Connecticut, Storrs, Connecticut.

PROFESSIONAL HISTORY

1985-1987 Assistant Fellow, Institute of Linguistics
Chinese Academy of Social Sciences, Beijing, China
1987-1993 Research Assistant, Haskins Laboratories, New Haven, Connecticut, USA
1994-1995 Postdoctoral Fellow, Research Laboratory of Electronics
Massachusetts Institute of Technology, Cambridge, Massachusetts, USA
1995-2002 Assistant Professor
Communication Sciences and Disorders, Northwestern University, Evanston, Illinois, USA
2002-2003 Research Assistant Professor
Department of Linguistics, The University of Chicago, Illinois, USA
2003-2004 Senior Scientist
Haskins Laboratories, New Haven, Connecticut, USA
2004-2006 Lecturer
Department of Phonetics and Linguistics, University College London
2006-present Reader in Speech Sciences
Department of Speech, Hearing and Phonetic Sciences, University College London

OTHER APPOINTMENTS AND AFFILIATIONS

Affiliated Staff, Department of Linguistics, University College London, UK; since 2008

Research Affiliate, Haskins Laboratories, New Haven, Connecticut, USA; since 2004

Editorial Board, *Phonetica*; since 2004

Associate Editor, *Phonetica*; since 2009

Member, Acoustical Society of America; since 1990; Full member since 2004

Member, Linguistic Society of America; since 1989

Member, International Speech Communication Association (ISCA); since 2003

Member, international Special Interest Group on Speech Prosody (SProSIG); since 2001

Board member and Liaison Officer, international Special Interest Group on Speech Prosody (SProSIG); since 2010

Member, International Phonetic Association; since 2003

Referee for journals

Journal of the Acoustical Society of America, Journal of Phonetics, Phonetica, Journal of Speech, Language, and Hearing Research, Language and Speech, Language and Cognitive Processes, Cognition, Memory and Language, Psychological Bulletin, Folia Phoniatica et Logopaedica, Italian Journal of Linguistics, Phonology, Journal of International Phonetic Alphabet, Perception and Psychophysics, Journal of Pragmatics, Language Learning, Developmental Science, Speech Communication, Journal of Speech Sciences, Journal of Chinese Linguistics, IEEE,

Referee for grant proposals

National Science Foundation, USA

The Economic and Social Research Council (ESRC), UK

Referee for conferences (member of scientific committee)

International Congress of Phonetic Sciences 2007, Speech Prosody 2004, 2006, 2008, 2010, Interspeech 2007, 2009, 2010

PRIZES, AWARDS AND OTHER HONORS

- 1981 Second Prize, Contest for undergraduate research papers for the paper
 "On the differences between American and British pronunciations" (competitive)
- 1987-1988 University of Connecticut, Roman Jakobson Fellowship (competitive)
- 1989 University of Connecticut, Predoctoral Fellowship (competitive)
- 1992 University of Connecticut, Isabelle Liberman Scholarship
 for the paper "Depth of phonological encoding in short-term memory" (competitive)
- 1993 University of Connecticut, Doctoral Dissertation Fellowship (competitive)

GRANTS

Northwestern University Research Grant: "Scope of Contextual Variation in Mandarin," 3/6/96–3/6/97 — \$5,000 USD; Principal Investigator

Volwiler Research Endowment: "A Perceptual Investigation of Intonation," 1/6/97–1/6/98

— \$5,000 USD; Principal Investigator

NIH Grant 1 R01 DC03902: "Local and global pitch contours in intonation," 1/7/99–30/6/04 — \$762,835 USD (Total Cost); Principal Investigator

NIH R01 Grant: "Sensory Mechanisms of Voice Control," 4/1/04–3/31/09, Co-Investigator (P.I.: Charles Larson, Northwestern University) — \$392,724 USD (Total Cost for my budget as Co-Investigator)

Royal Society Newton International Fellowship: "Modelling Speech Prosody Based On Communicative Function And Articulatory Dynamics," 25-AUG-10 to 16-JAN-13, for Dr. Santitham Prom-On — £99,000 GBP, Sponsor/Supervisor

TEACHING ACTIVITY

EMERSON COLLEGE, BOSTON, MASSACHUSETTS

Anatomy and Physiology of Speech, Spring, 1995

NORTHWESTERN UNIVERSITY

Classroom Instruction:

Acoustics of Speech (undergraduate)

Acoustic Phonetics

Laboratory Electronic Instrumentation

Laboratory Computer Instrumentation

Problems in Speech and Language Pathology

Seminar: Clear Speech

Seminar: Contemporary Issues in Tone and Intonation

Seminar: Research Methodology I

Seminar: Research Methodology II

UNIVERSITY OF CHICAGO

Seminar: Tone and Intonation

UNIVERSITY COLLEGE LONDON

PLIN7108 Tone and Intonation, 2006

PLIN3101 Phonetic Theory, 2007–2011

PLIN1301 Principles of Linguistic Theory (organizer), 2007–2008

PLIN1101 Introduction to Phonetics and Phonology, 2011

HCSCGH12 NLC Speech processing, 2010–2011

ACADEMIC SUPERVISION

Primary PhD supervision:

1997–2002: Xuejing Sun, Ph.D., Northwestern University; Presently: Senior Scientist, IC Tech, Okemos, MI, USA

1999–2004: Ching X. Xu, Ph.D., Northwestern University.

2005–2006: Santitham Prom-on, Suthathip Chuenwattana, one-year visiting Ph.D. students from King Mongkut’s University of Technology Thonburi, Thailand

2007-present : Chierh Cheng, Ph.D. candidate, University College London

2008-present : Wing-Li Wu, Ph.D. candidate, University College London

2011-present : Critiane Hsu, Ph.D. candidate, University College London

2011-present : Albert Lee, Ph.D. candidate, University College London

2012-present : Hao Liu, Ph.D. candidate, University College London

2012-present : Xiaoluan Liu, Ph.D. candidate, University College London

Secondary PhD supervision:

1995-1997: Sarmad Hussain, Ph.D., Northwestern University, USA

1999-2001: King Chung, Ph.D., Northwestern University, USA

2001-2003: Shilpi Banerjee, Ph.D., Northwestern University, USA

2004-2006: Shu Zhang, Ph.D. candidate, University College London

2004-2007: Mary Pearce, Ph.D. University College London

2004-2010: Rosemary O’Halpin, Ph.D. University College London

2006-2009: Eric Carlson, Ph.D. candidate, University College London

2007-2011: Mariam Al-Mihmadi, Ph.D. candidate, University College London

2007-2011: Candide Simard, Ph.D. candidate, University of Manchester

2010-2011: Markus Greif, Ph.D. candidate, University of Potsdam, Germany

2009-present: Dong-Jin Shin, Ph.D. candidate, University College London

MA Thesis Supervision:

2006 Michael Olsberg, University College London

2007 James Fenton, Jill Lunquist, University College London

2010 Xuan Liu, University College London

2011 Albert Lee, Lauren Fromont, University College London

BSc Final project Supervision:

2007-2008 Andrew Kelly, University College London

2008-2009 Cameron Smillie, University College London

2009-2010 Catherine Lawson, Fatema Rattansey, Lucy Noble, Lisa Chung, University College London

2010-2011 Kaisin Yee, University College London

PUBLICATIONS

1. Journal Articles

- 1.1. Lin, C. Y., Wang, M., Idsardi, W. J. and Xu, Y. (in press). Stress Processing in Mandarin and Korean Second Language Learners of English. *Bilingualism: Language and Cognition*.
- 1.2. Liu, F., Jiang, C., Pfordresher, P. Q., Mantell, J. T., Xu, Y., Yang, Y. and Stewart, L. (in press). Individuals with congenital amusia imitate pitches more accurately in singing than in speaking: Implications for music and language processing. *Attention, Perception, & Psychophysics*.
- 1.3. Liu, F., Xu, Y., Prom-on, S. and Yu, A. C. L. (in press). Morpheme-like prosodic functions: Evidence from acoustic analysis and computational modeling. *Journal of Speech Sciences*.
- 1.4. Xu, Y., Lee, A., Wu, W.-L., Liu, X. and Birkholz, P. (2013). Human vocal attractiveness as signaled by body size projection. *PLoS ONE* 8(4): e62397.
- 1.5. Wang, B., Qadir, T. and Xu, Y. (2013). 维吾尔语焦点的韵律实现及感知 [Prosodic encoding and perception of focus in Uygur]. *Acta Acoustica Sinica* 38: 92-98.
- 1.6. Prom-on, S., Liu, F. & Xu (2012) Post-low bouncing in Mandarin Chinese: Acoustic analysis and computational modeling. *Journal of the Acoustical Society of America* 132: 421-432.
- 1.7. Liu, F., Xu, Y., Patel, A. D., Francart, T. and Jiang, C. (2012). Differential recognition of pitch patterns in discrete and gliding stimuli in congenital amusia: Evidence from Mandarin speakers. *Brain and Cognition* 79: 209-215.
- 1.8. Xu, Y., Chen, S.-w., Wang, B. (2012) Prosodic focus with and without post-focus compression (PFC): A typological divide within the same language family? *The Linguistic Review* 29: 131-147.
- 1.9. Liu, F., Jiang, C., Thompson, W. F., Xu, Y., Yang, Y. and Stewart, L. (2012). The mechanism of speech processing in congenital amusia: Evidence from Mandarin speakers. *PLoS ONE* 7: e30374.
- 1.10. Xu, Y. (2011). Speech prosody: A methodological review. *Journal of Speech Sciences* 1: 85-115.
- 1.11. Wang, B. and Xu, Y. (2011). Differential prosodic encoding of topic and focus at sentence initial position in Mandarin Chinese. *Journal of Phonetics* 39: 595-611.
- 1.12. Xu, Y. (2010). In defense of lab speech. *Journal of Phonetics* 38, 329-336.
- 1.13. Xu, Y. and Wang, M. (2009). Organizing syllables into groups — Evidence from F0 and duration patterns in Mandarin. *Journal of Phonetics* 37, 502-520.
- 1.14. Gauthier, B., Shi, R. and Xu, Y. (2009). Learning Prosodic Focus from Continuous Speech Input: A Neural Network Exploration. *Language Learning and Development* 5, 94-114.
- 1.15. Liu, H., Xu, Y. and Larson, C. (2009). Attenuation of Vocal Responses to Pitch Perturbations During Mandarin Speech. *Journal of the Acoustical Society of America* 125, 2299-2306.
- 1.16. Prom-on, S., Xu, Y. and Thipakorn, B. (2009). Modeling tone and intonation in Mandarin and English as a process of target approximation. *Journal of the Acoustical Society of America* 125, 405-424.
- 1.17. Xu, Y. (2009). Timing and coordination in tone and intonation -- An articulatory-functional perspective. *Lingua* 119, 906-927.

- 1.18. Chuenwattanapranithi, S., Xu, Y., Thipakorn, B. and Maneewongvatana, S. (2008). Encoding emotions in speech with the size code -- A perceptual investigation. *Phonetica* 65, 210-230.
- 1.19. Chuenwattanapranithi, S., Xu, Y., Thipakorn, B., Maneewongvatana, S. (2007). The roles of pitch contour in differentiating anger and joy in speech. *International Journal of Signal Processing* 3, 129-134
- 1.20. Liu, H., Zhang, Q., Xu, Y. and Larson, C. (2007). Compensatory responses to loudness-shifted voice feedback during production of Mandarin speech. *Journal of the Acoustical Society of America* 122: 2405-2412.
- 1.21. Xu, Y. and Liu, F. (2007). Determining the temporal interval of segments with the help of F0 contours. *Journal of Phonetics* 35, 398-420.
- 1.22. Gauthier, B., Shi, R. and Xu, Y. (2007a). Learning phonetic categories by tracking movements. *Cognition* 103: 80-106.
- 1.23. Gauthier, B., Shi, R. and Xu, Y. (2007b). Simulating the acquisition of lexical tones from continuous dynamic input. *Journal of the Acoustical Society of America Express Letters* 121: EL190-195.
- 1.24. Chen, S. H., Liu, H., Xu, Y. and Larson, C. R. (2007). Voice F0 responses to pitch-shifted voice feedback during English speech. *Journal of the Acoustical Society of America* 121: 1157-1163.
- 1.25. Xu, Y. and Liu, F. (2006) Tonal alignment, syllable structure and coarticulation: Toward an integrated model. *Italian Journal of Linguistics* 18: 125-159.
- 1.26. Chen, Y. and Xu, Y. (2006). Production of weak elements in speech — Evidence from F0 patterns of neutral tone in Standard Chinese. *Phonetica* 63: 47-75.
- 1.27. Liu, F. and Xu, Y. (2005). Parallel Encoding of focus and interrogative meaning in Mandarin intonation. *Phonetica* 62: 70-87.
- 1.28. Xu, Y. and Xu, C. X. (2005) Phonetic realization of focus in English declarative intonation. *Journal of Phonetics*, 33: 159-197.
- 1.29. Xu, Y. (2005). Speech melody as articulatorily implemented communicative functions. *Speech Communication* 46: 220-251.
- 1.30. Xu, Y., Larson, C. R., Bauer, J. J. and Hain, T. C. (2004). Compensation for pitch-shifted auditory feedback during the production of Mandarin tone sequences. *Journal of the Acoustical Society of America* 116: 1168-1178.
- 1.31. Xu, Y. (2004) Understanding tone from the perspective of production and perception. *Language and Linguistics* 5: 757-797.
- 1.32. Sheng, L., McGregor, K. K. and Xu, Y. (2003). Prosodic and lexical-syntactic aspects of the therapeutic register. *Clinical Linguistics and Phonetics*, 17: 355-363.
- 1.33. Xu, C. X. and Xu, Y. (2003). Effects of Consonant Aspiration on Mandarin Tones. *Journal of the International Phonetic Association* 33: 165-181.
- 1.34. Sun, X. and Xu, Y. (2002). Perceived pitch of synthesized voice with alternate cycles. *Journal of Voice* 16: 443-459.

- 1.35. Xu, Y. and Sun, X. (2002). Maximum speed of pitch change and how it may relate to speech. *Journal of the Acoustical Society of America* 111: 1399-1413.
- 1.36. Xu, Y. and Wang, Q. E. (2001). Pitch targets and their realization: Evidence from Mandarin Chinese. *Speech Communication*, 33: 319-337.
- 1.37. Xu, Y. (2001a). Fundamental frequency peak delay in Mandarin. *Phonetica*, 58: 26-52.
- 1.38. Xu, Y. (2001b). Sources of tonal variations in connected speech. *Journal of Chinese Linguistics*. Monograph series #17, pp. 1-31.
- 1.39. Wang, Q. E., Peach, R., and Xu, Y. (2000). Perception of dynamic acoustic patterns by an individual with unilateral verbal auditory agnosia. *Brain and Language* 73: 442-455.
- 1.40. Xu, Y. (1999). Effects of tone and focus on the formation and alignment of F0 contours. *Journal of Phonetics* 27: 55-105.
- 1.41. Xu, Y. (1998). Consistency of tone-syllable alignment across different syllable structures and speaking rates. *Phonetica*, 55: 179-203.
- 1.42. Xu, Y., A. M. Liberman, and Whalen, D. H. (1997). On the immediacy of phonetic perception. *Psychological Science*, 8: 358-362.
- 1.43. Xu, Y. (1997). Contextual tonal variations in Mandarin. *Journal of Phonetics*, 25: 61-83.
- 1.44. Xu, Y. (1994). Production and perception of coarticulated tones. *Journal of the Acoustical Society of America*, 95: 2240-2253.
- 1.45. Whalen, D. H. and Xu, Y. (1992). Information for Mandarin tones in the amplitude contour and in brief segments. *Phonetica*, 49: 25-47.
- 1.46. Xu, Y. (1991). Depth of phonological recoding in short-term memory. *Memory & Cognition*, 19: 263-273.
- 1.47. Yang, S. -A. and Xu, Y. (1988). An acoustic-phonetic oriented system for synthesizing Chinese. *Speech Communication* 7: 317-325.
- 1.48. Xu, Y. (1986). Acoustic-phonetic characteristics of junctures in Mandarin Chinese (in Chinese). 《中国语文》 [Journal of Chinese Linguistics], No. 4, pp. 353-360. (Beijing, China)

2. Books Chapters

- 2.1. Xu, Y. (in press) Intonation in Chinese. In Sun, C., Wang, W. S. - Y. (Eds.). *Oxford Handbook of Chinese Linguistics*. Oxford, UK: Oxford University Press.
- 2.2. Xu, Y. and Liu, F. (2012). Intrinsic coherence of prosody and segments. In O. Niebuhr (ed.) *Understanding Prosody – The Role of Context, Function, and Communication*, Walter de Gruyter, pp. 1-26.
- 2.3. Xu, Y. and Liu, F. (in press; invited contribution). 韵律研究的最新发展以及与其他领域的关系 [Advances in prosody research and how they are related to other areas]. In 《语言学》. 王志洁. J. Wang and 陈东东. D. Chen (eds).
- 2.4. Xu, Y., Kelly, A. and Smillie, C. (in press). Emotional expressions as communicative signals. To appear in Hancil, S., Hirst, D. (ed.) *Prosody and Iconicity*.

- 2.5. Xu, Y. (2012; invited contribution). Function vs. form in speech prosody — Lessons from experimental research and potential implications for teaching. In J. Romero-Trillo (ed.) *Pragmatics, Prosody and English Language Teaching*. Springer, New York, pp. 61-76.
 - 2.6. Xu, Y. (2010; invited contribution). 从交际功能和编码机制的角度理解语言 [Understanding speech from the perspective of communicative functions and coding mechanisms]. In *A Festschrift in Honor of Professor William S-Y Wang on his Seventy-fifth Birthday*. W. Pan and Z. Shen. Shanghai: Shanghai Education Press pp. 365-375.
 - 2.7. Xu, Y. (2009; invited contribution). In defense of lab speech in prosody research. In *Frontiers in Phonetics and Speech Science — Festschrift for Professor Wu Zongji's 100th birthday*. G. Fant, H. Fujisaki and J. Shen. Beijing: The Commercial Press pp. 381-390.
 - 2.8. Kuo, Y.-c., Xu, Y. and Yip, M. (2007). The phonetics and phonology of apparent cases of iterative tonal change in Standard Chinese. In C. Gussenhoven and T. Riad (eds.) *Tones and Tunes Vol 2: Experimental Studies in Word and Sentence Prosody*. Berlin: Mouton de Gruyter pp. 211-237.
 - 2.9. Xu, Y. (2006; invited contribution). Tone in connected discourse. K. Brown (ed.), *Encyclopedia of Language and Linguistics, 2nd Ed.* Oxford: Elsevier. 12: 742-750.
 - 2.10. Xu, Y. (2004; Invited contribution). Separation of functional components of tone and intonation from observed F0 patterns. In *From Traditional Phonology to Modern Speech Processing: Festschrift for Professor Wu Zongji's 95th Birthday*. G. Fant, H. Fujisaki, J. Cao and Y. Xu. Beijing, Foreign Language Teaching and Research Press: 483-505.
 - 2.11. Xu, Y. (1994). Asymmetry in contextual tonal variation in Mandarin. In H.-W. Change, J.-T. Hung, C.-W. Hue, & O.J.L. Tossing (Eds.), *Advances in the study of Chinese language processing Vol. 1*, 383-396. Taipei: Department of Psychology, National Taiwan University.
 - 2.12. Mattingly, I. G., and Xu, Y. (1994). Word superiority in Chinese. In H.-W. Change, J.-T. Hung, C.-W. Hue, & O.J.L. Tossing (Eds.), *Advances in the study of Chinese language processing Volume 1*, (pp. 101-111). Taipei: Department of Psychology, National Taiwan University.
 - 2.13. Xu, Y. (1989). Syllables and junctures [in Chinese]. In *An Outline of Experimental Phonetics*. Z. Wu and M. Lin. Beijing: Higher Education Press pp. 193-220.
 - 2.14. Xu, Y. (1988). Syllables and junctures (in Chinese). Chapter 8 in Wu, Z., and Lin, M., (eds.), *A Course in Phonetics*. Beijing, China: Higher Education Press. pp. 193-220.
3. **Papers in conference proceedings (refereed or invited):**
- 3.1. Prom-on, S. and Xu, Y. (2012). PENTATrainer2: A hypothesis-driven prosody modeling tool. In *Proceedings of the Fifth ISEL Conference on Experimental Linguistics (ExLing 2012)*, Athens, Greece. Pp. 93-100.
 - 3.2. Prom-on, S. and Xu, Y. (2012). Pitch Target Representation of Thai Tones. In *Proceedings of TAL 2012*, Nanjing, China.
 - 3.3. Ardali, M. T. and Xu, Y. (2012). Phonetic Realization of Prosodic Focus in Persian. In *Proceedings of Speech Prosody 2012*, Shanghai. 326-329.

- 3.4. Chen, Y., Guion-Anderson, S. and Xu, Y. (2012). Post-Focus Compression in Second Language Mandarin. In *Proceedings of Speech Prosody 2012, Shanghai*. 410-413.
- 3.5. Lee, A. and Xu, Y. (2012). Revisiting focus prosody in Japanese. In *Proceedings of Speech Prosody 2012, Shanghai*. 274-277.
- 3.6. Wang, L., Wang, B. and Xu, Y. (2012). Prosodic encoding and perception of focus in Tibetan (Anduo Dialect). In *Proceedings of Speech Prosody 2012, Shanghai*. 286-289.
- 3.7. Xu, Y. (2011). Functions and mechanisms in linguistic research — Lessons from speech prosody. In *Proceedings of 2011, Paris*: 1-10.
- 3.8. Cheng, C., Prom-on, S. and Xu, Y. (2011). Modelling extreme tonal reduction in Taiwan Mandarin based on target approximation. In *Proceedings of The 17th International Congress of Phonetic Sciences, Hong Kong*
- 3.9. Liu, X. and Xu, Y. (2011). Attractiveness of female voice based on size projection. In *Proceedings of The 17th International Congress of Phonetic Sciences, Hong Kong*
- 3.10. Noble, L. and Xu, Y. (2011). Friendly Speech and Happy Speech – Are they the same? In *Proceedings of The 17th International Congress of Phonetic Sciences, Hong Kong*
- 3.11. Prom-on, S., Liu, F. and Xu, Y. (2011). Functional modeling of tone, focus and sentence type in mandarin chinese. In *Proceedings of The 17th International Congress of Phonetic Sciences, Hong Kong*
- 3.12. Wang, B., Wang, L. and Kadir, T. (2011). Prosodic encoding of focus in six languages in China. In *Proceedings of The 17th International Congress of Phonetic Sciences, Hong Kong*
- 3.13. Xu, Y. (2011). Post-focus compression: Cross-linguistic distribution and historical origin. In *Proceedings of The 17th International Congress of Phonetic Sciences, Hong Kong*
- 3.14. Liu, F. (2010). Single vs. double focus in English statements and yes/no questions. In *Proceedings of Speech Prosody 2010, Chicago*.
- 3.15. Xu, Y. and Prom-on, S. (2010). Articulatory-Functional Modeling of Speech Prosody: A Review. In *Proceedings of Interspeech 2010, Makuhari, Japan*.
- 3.16. Cheng, C., Xu, Y. and Gubian, M. (2010). Exploring the Mechanism of Tonal Contraction in Taiwan Mandarin. In *Proceedings of Interspeech 2010, Makuhari, Japan*.
- 3.17. Gao, H. and Xu, Y. (2010). Ambisyllabicity in English: How real is it? In *Proceedings of PCC2010, Beijing*.
- 3.18. Lee, Y.-c. and Xu, Y. (2010). Phonetic Realization of Contrastive Focus in Korean. In *Proceedings of Speech Prosody 2010, Chicago*.
- 3.19. Patel, A. D., Xu, Y. and Wang, B. (2010). The role of F0 variation in the intelligibility of Mandarin sentences. In *Proceedings of Speech Prosody 2010, Chicago*.
- 3.20. Prom-on, S. and Xu, Y. (2010). The qTA Toolkit for Prosody: Learning Underlying Parameters of Communicative Functions through Modeling. In *Proceedings of Speech Prosody 2010, Chicago*.
- 3.21. Wu, W. L. and Xu, Y. (2010). Prosodic Focus in Hong Kong Cantonese without Post-focus Compression. In *Proceedings of Speech Prosody 2010, Chicago*.

- 3.22. Xu, Y., Chen, S.-w. and Wang, B. (2010). Prosodic focus with post-focus compression: Single or Multiple Origin? In *Proceedings of The 2nd Symposium on Evolutionary Linguistics*. Tianjin, China.
- 3.23. Xu, Y. and Kelly, A. (2010). Perception of anger and happiness from resynthesized speech with size-related manipulations. In *Proceedings of Speech Prosody 2010*, Chicago.
- 3.24. Chen, S.-w., Wang, B., Xu, Y. (2009). Closely related languages, different ways of realizing focus. *Interspeech 2009*, 1007-1010.
- 3.25. Cheng, C., Xu, Y. (2009). Extreme reductions: Contraction of disyllables into monosyllables in Taiwan Mandarin. *Interspeech 2009*, 456-459.
- 3.26. Tokuma, S., Xu, Y. (2009). The effect of F0 peak-delay on the L1 / L2 perception of English lexical stress. *Interspeech 2009*, , 1687-1690.
- 3.27. Xu, Y. (2008). Multi-dimensional information coding in speech, *Speech Prosody 2008*, Campinas, Brazil, pp. 17-26. (Invited).
- 3.28. Xu, Y. (2008). In defense of lab speech in prosody research. The 8th Phonetics Conference of China and The International Symposium on Phonetics Frontiers, Beijing. (Invited)
- 3.29. Xu, Y. (2007). Speech as articulatory encoding of communicative functions. The 16th International Congress of Phonetic Sciences, 25-30. (Invited).
- 3.30. Xu, Y. and Chuenwattanapranithi, S. (2007). Perceiving anger and joy in speech through the size code. The 16th International Congress of Phonetic Sciences. pp. 2105-2108.
- 3.31. Liu, F. and Xu, Y. (2007). Question intonation as affected by word stress and focus in English. The 16th International Congress of Phonetic Sciences. pp. 1189-1192.
- 3.32. Liu, F. and Xu, Y. (2007). The Neutral Tone in Question Intonation in Mandarin. *Interspeech 2007*. pp. 630-633.
- 3.33. Olsberg, M. and Xu, Y., Green, G. (2007). Dependence of tone perception on syllable perception. *Interspeech 2007*. pp. 2649-2652.
- 3.34. Wong, Y. W. and Xu, Y. (2007). Consonantal perturbation of f0 contours of Cantonese tones. The 16th International Congress of Phonetic Sciences, 1293-1296.
- 3.35. Xu, Y. (2006). Speech prosody as articulated communicative functions. *Speech Prosody 2006*, Dresden, Germany: SPS5-4-218.
- 3.36. Xu, Y. (2006). Principles of tone research. The Second International Symposium on Tonal Aspects of Languages, La Rochelle, France: 3-13. (Invited)
- 3.37. Chuenwattanapranithi, S., Xu, Y., Thipakorn, B. and Maneewongvatana, S. (2006). Expressing anger and joy , with the size code. *Speech Prosody 2006*, Dresden, Germany. OS4-1_0090.
- 3.38. Liu, F., Surendran, D. and Xu, Y. (2006). Classification of statement and question intonations in Mandarin. *Speech Prosody 2006*, Dresden, Germany. PS5-25_0232.

- 3.39. Prom-on, S., Xu, Y. and Thipakorn1, B. (2006). Quantitative Target Approximation model: Simulating underlying mechanisms of tones and intonations. The 31st International Conference on Acoustics, Speech, and Signal Processing, Toulouse, France. pp. I-749-752.
- 3.40. Prom-on, S., Xu, Y. and Thipakorn1, B. (2006). Functional-oriented articulatory modeling of tones and intonations. Speech Prosody 2006, Dresden, Germany. PS2-14_0089.
- 3.41. Wang, B. and Xu, Y. (2006). Prosodic encoding of topic and focus in Mandarin. Speech Prosody 2006, Dresden, Germany. PS3-12_0172.
- 3.42. Gauthier, B., Shi, R. and Xu, Y. (2005). Variable Input and the Discovery of Lexical Tones in Infants: A Connectionist Approach. Proceedings of BUCLD 30: The 30th annual Boston University conference on language development, Boston, MA. Cascadilla Press: 202-212.
- 3.43. Gauthier, B., Shi, R. and Xu, Y. (2005). Recognising tones by tracking movements $\text{\textcircled{D}}$ How infants may develop tonal categories from adult speech input. ISCA Workshop on Plasticity in Speech Perception.
- 3.44. Surendran, D., Levow, G.-A. and Xu, Y. (2005). Tone Recognition in Mandarin using Focus. Interspeech 2005, Lisbon, Portugal: 3301-3304.
- 3.45. Xu, Y., Xu, C. X. and Sun, X. (2004). On the Temporal Domain of Focus. International Conference on Speech Prosody 2004, Nara, Japan: 81-84.
- 3.46. Xu, Y. (2004). Transmitting Tone and Intonation Simultaneously -- The Parallel Encoding and Target Approximation (PENTA) Model. The First International Symposium on Tonal Aspects of Languages: With Emphasis on Tone Languages, Beijing: 215-220. (Invited)
- 3.47. Xu, Y. (2004). The PENTA model of speech melody: Transmitting multiple communicative functions in parallel. From Sound to Sense: 50+ years of discoveries in speech communication, Cambridge, MA, 91-96.
- 3.48. Xu, Y. (2003) Three levels of tune-text relations. The 15th International Congress of Phonetic Sciences, Barcelona. August, 2003. pp. 257-260. (Invited)
- 3.49. Liu, F., Xu, Y. (2003). Underlying targets of initial glides -- Evidence from focus-related F0 alignments in English. The 15th International Congress of Phonetic Sciences, Barcelona, 1887-1890.
- 3.50. Xu, Y. (2002) Articulatory constraints and tonal alignment. The 1st International Conference on Speech Prosody, Aix-en-Provence, France. pp. 91-100. (Invited)
- 3.51. Xu, Y. and Liu, F. (2002) Segmentation of glides with tonal alignment as reference. The 7th International Conference On Spoken Language Processing, Denver, Colorado, pp. 1093-1096.
- 3.52. Xu, Y. and Sun, X. (2000) How fast can we really change pitch? Maximum speed of pitch change revisited. The 6th International Conference on Spoken Language Processing, Beijing, Vol. 3, pp. 666-669.
- 3.53. Xu, Y. (1999). From simple pitch targets to complex F0 contours [in Chinese]. The 4th National Conference on Modern Phonetics, Beijing. pp. 92-97.
- 3.54. Xu, Y. (1999). F0 peak delay: When, where and why it occurs. The 14th International Congress of Phonetic Sciences, San Francisco, 1881-1884

- 3.55. Xu, C. X., Xu, Y., Luo, L-S. (1999). A pitch target approximation model for F0 contours in Mandarin. The 14th International Congress of Phonetic Sciences, San Francisco, , 2359-2362
- 3.56. Xu, Y. and Wang, Q. E. (1997). What can tone studies tell us about intonation? Intonation:, In A. Botinis, G. Kouroupetroglou and G. Carayannis (eds.) ESCA Workshop on intonation: Theory, Models and Applications. European Speech Communication Association. Athens, Greece, pp. 337-340.
- 3.57. Xu, Y. (1996) Factors affecting the surface tone forms in Mandarin. A Collection of Papers from the Third Phonetic Symposium of China. pp. 35-36.
- 3.58. Xu, Y. (1995). The effect of emphatic accent on contextual tonal variation. The XIII International Congress of Phonetic Sciences, Stockholm, 668-671.
- 3.59. Yang, S. -A. and Xu, Y. (1987). A software system for synthesizing Chinese. The 1987 International Conference on Chinese Information Processing, Vol. 2, pp. 405-414, Beijing, China.
- 3.60. Xu, Y. (1986). The effect of frame size on the quality of synthesized speech (in Chinese). The 2nd Conference on Information Processing, Nanjing, China.

4. Other publications

Book Review

- 4.1. Xu, Y. (1992). Review of Psycholinguistic Implications for Linguistic Relativity: A Case Study of Chinese, by Rumjahn Hoosain. *Language and Speech*. 35: 325-340.

Theses

- 4.2. Xu, Y. (1993). Contextual tonal variation in Mandarin Chinese. Ph.D. dissertation. The University of Connecticut.
- 4.3. Xu, Y. (1984). Acoustic-phonetic characteristics of junctures in Mandarin Chinese. M.A. thesis. Institute of Linguistics, Chinese Academy of Social Sciences.

INVITED TALKS

1. **Keynote Lecture**: “Morpheme-like prosodic functions,” Second School of Prosody, Vitória, Brazil, October, 2012.
2. **Lecture series**: “Speech Prosody — Theories, analysis and models.” Second School of Prosody, Vitória, Brazil, October, 2012.
3. **Keynote Presentation**: “What can Chinese phonetics contribute to speech science in general?” PCC2012, Shanghai, China, May, 2012.
4. (a) “Vocal expressions of emotions in speech,” (b) “What can Chinese phonetics contribute to speech science in general?” Central University of Nationalities, Beijing, China, May, 2012.
5. (a) “From cross-linguistic distribution of prosodic focus to the origin of Sino-Tibetan language family,” (b) “Vocal expressions of emotions in speech,” Chinese Academy of Social Sciences, Beijing, China, May, 2012.

6. "Function vs. form in speech prosody — Lessons from experimental research and implications for intonation teaching," Xuzhou Normal University, Xuzhou, China, May, 2012.
7. "From cross-linguistic distribution of prosodic focus to the origin of Sino-Tibetan language family," Shanghai Normal University, Shanghai, China, May, 2012.
8. "What can Chinese phonetics contribute to speech science in general?" Shanghai University, Shanghai, China, May, 2012.
9. "Prosodic focus from an experimental perspective," Universität Tübingen, Germany, January, 2012.
10. "Speech Prosody: Theories, mechanisms, models and tools," SOAS, London, January 2012.
11. "From tone to intonation: Articulatory-functional mechanisms and computational modeling," Lorraine Research Laboratory in Computer Science and its Applications (LORIA), Nancy, France, November, 2011.
12. **Invited Presentation:** "Prosodic functions as morphemes" Experimental and Theoretical Advances in Prosody (ETAP II), Montreal, Canada, September, 2011.
13. (a) "Coarticulation: Fact and Fantasy.", (b) "Tone: Articulatory-functional mechanisms and computational modeling" Central University of Nationalities, Beijing, China, September, 2011.
14. "Cracking the emotion code in human speech," University of Hong Kong, Hong Kong, August, 2011.
15. **Keynote Presentation:** "Tone: Articulatory-functional mechanisms and computational modeling" Psycholinguistic Representation of Tone (PLRT), Hong Kong, August, 2011.
16. **Keynote Presentation:** "Functions and mechanisms in linguistic research — Lessons from speech prosody" The fourth ISCA Tutorial and Research Workshop on Experimental Linguistics (ExLing 2011), Paris, France, May, 2011.
17. **Keynote Presentation:** "Phonetics vs. phonology: How different are the questions asked across the divide?" On Linguistic Interfaces II, Belfast, Northern Ireland, December, 2010.
18. "Current progress in research on prosodic modeling, focus typology and emotions in speech," Institute of Linguistics, Chinese Academy of Social Sciences, June, 2010.
19. "Prosodic patterns of focus and its cross-linguistic distribution." Beijing University, Beijing, China, May, 2010.
20. "Prosodic patterns of focus and its cross-linguistic distribution." Central University of Nationalities, Beijing, China, May, 2010.
21. "Cracking the emotion code in human speech." Institute of Automation, Chinese Academy of Sciences, Beijing, China, June, 2010.
22. "PENTA and qTA: Controlling encoding parameters by communicative functions, and generating F₀ contours based on dynamic articulatory mechanisms." University of Science and Technology of China, Hefei, China, May, 2010.

23. **Keynote Presentation**: “Prosodic focus with and without post-focus compression: A global typological divide?” “Accent on Tone” Phonology and Phonetics in Shanghai, May, 2010.
24. “Cracking the emotion code in human speech,” Haskins Laboratories, USA, March, 2010.
25. “A global typological divide: Prosodic focus with or without post-focus compression,” City University of Hong Kong, Hong Kong, January, 2010.
26. “Prosodic focus in different languages: Commonalities and dissimilarities,” Max Planck Institute for Psycholinguistics, Nijmegen, The Netherlands, April, 2009.
27. “Target approximation as the basic dynamic mechanism of speech production and perception,” GIPSA-lab, Grenoble, France, November, 2008.
28. **Keynote Presentation**: “Emotional expression in speech based on biological codes.” Nordic Prosody 2008, Helsinki, August, 2008.
29. **Keynote Presentation**: “Multi-dimensional Information Coding in Speech,” Speech Prosody 2008, Campinas, Brazil, May, 2008.
30. “Understanding speech from the perspective of articulation and information coding.” University of Manchester, UK, February, 2008.
31. “Articulatory-functional view of speech and experimental linguistics.” International Workshop on Widening the Perspective of Speech Research, Shanghai, January, 2008.
32. “Modeling speech melody as articulatorily implemented communicative functions,” Motorola Shanghai, January, 2008.
33. “Target approximation as core mechanism of speech production and perception,” Institute of Linguistics, Chinese Academy of Social Sciences, December, 2007.
34. **Invited lead presentation**: “Speech as articulatory encoding of communicative functions,” Special Session: Between Meaning and Speech: On the Role of Communicative Functions, Representations and Articulations, ICPHS 2007, Saarbrücken, Germany, August, 2007
35. **Lecture series**: “Tone, intonation and prosody in speech — An articulatory-functional perspective.” Department of General Linguistics, University of Helsinki, September 4-6, 2007.
36. “Modeling Speech Melody as Articulatorily Implemented Communicative Functions.” Center for Languages and Literature, Lund University, Sweden, April, 2007.
37. “Target approximation as the core mechanism of speech production and perception.” Cornell University, USA, September, 2006.
38. **Keynote Presentation**: “Timing and coordination in tone and intonation.” Conference on the Typology of Tone and Intonation (TIE2), September, 2006.
39. **Keynote Lecture**: “Principles of tone research.” Second International Symposium on Tonal Aspects of Languages: With Emphasis on Tone Languages, La Rochelle, France, April, 2006.

40. "Phonetic targets as the link between speech production and perception." University of Cambridge, March, 2006.
41. "Tone and intonation as articulatorily implemented communicative functions." Université de Provence, France, February, 2006.
42. "Phonetic targets as the link between production and perception in speech." University of Bristol, January, 2006.
43. "Tonal alignment, syllable structure and coarticulation: Toward an integrated model." University of Potsdam, Germany, November, 2005.
44. "From tonal alignment to segmental alignment and beyond." University of Edinburgh, November, 2005.
45. "Understanding speech from the perspective of articulation and information coding." Motorola, Shanghai, Shanghai, China, July, 2005.
46. "Understanding speech from the perspective of articulation and information coding." Institute of Automation, Chinese Academy of Sciences, Beijing, China, July, 2005.
47. "Tone, syllable and coarticulation." Beijing University, Beijing, China, July, 2005.
48. "Tone, syllable and coarticulation." Central University for Nationalities, China, July, 2005.
49. **Lecture series:** "Speech as an information system." Summer Workshop on Phonetics and Speech Science. Beijing, China, July 12-19, 2005.
50. "The changing faces of tones: Mandarin tones in context." Invited presentation at "Making Sense of Prosody — A workshop on the phonetics and phonology of the tonal and prosodic structure of languages." SOAS, UK, May, 2005.
51. "Modeling Speech Melody as Articulatorily Implemented Communicative Functions." Department of Computer Science, University of Chicago, USA, February, 2005.
52. "Multiple degrees of separation between acoustic patterns and functional components of speech — A functional and multi-mechanistic view." Tsinghua University, Beijing, China, April, 2004.
53. "Multiple degrees of separation between acoustic patterns and functional components of speech — A functional and multi-mechanistic view." University of Science and Technology of China, Hefei, China, April, 2004.
54. **Lecture series:** "Tone, pitch accents & intonation — Mechanisms & Principles." Jinan University, Guangzhou, China, April, 2004.
55. "Multiple degrees of separation between acoustic patterns and functional components of speech — A functional and multi-mechanistic view." Chinese University of Hong Kong, April, 2004.
56. "Speech Melody as Articulatorily Implemented Communicative Functions." Department of Linguistics, University of Potsdam, Germany, December, 2004.

57. **Keynote Presentation:** “Transmitting Tone and Intonation Simultaneously -- The Parallel Encoding and Target Approximation (PENTA) Model.” International Symposium on Tonal Aspects of Languages: With Emphasis on Tone Languages, Beijing, March, 2004.
58. “The Parallel Encoding and Target Approximation (PENTA) model — Transmitting multiple communicative meanings by controlling articulatorily operable parameters.” Yale University, USA, February, 2004.
59. “Three levels of tune-text relations.” Invited symposium presentation: “Tune-Text Relations in Intonation,” The 15th International Congress of Phonetic Sciences, Barcelona. August, 2003.
60. **Lecture series:** “Intonation and speech prosody.” Institute of Linguistics, Chinese Academy of Social Sciences, Beijing University, Microsoft Research, China, IBM China Research Laboratory, Motorola, Shanghai, December 12-30, 2002.
61. **Keynote Lecture:** “Articulatory constraints and tonal alignment.” The 1st International Conference on Speech Prosody, Aix-en-Provence, France, April 11-13, 2002.
62. “How are glides produced? - Implications from recent data on segmentation of glides with F0 alignment as reference.” Linguistics and Phonetics 2002, Urayasu, Japan, September 2-6, 2002.
63. “Pitch Target of Neutral Tone in Standard Chinese.” Linguistics and Phonetics 2002, Urayasu, Japan, September 2-6, 2002.
64. “Implementing phonetic targets under articulatory constraints.” Research Laboratory of Electronics, Department of Electrical Engineering, Massachusetts Institute of Technology, February 20, 2002.
65. “Why would tones "spread"? — Evidence from Mandarin.” Department of Linguistics, University of Illinois at Urbana-Champaign, December, 1999.
66. “Tonal variations in Mandarin and how they relate to intonation issues.” Department of Audiology and Speech Sciences, Purdue University, March, 1999.

Invited but not able to go

September 2007: City University of New York (CUNY) Graduate Center department of Speech-Language-Hearing sciences.

October 2007: Department of Brain and Cognitive Sciences at the University of Rochester.

January 2012: 2nd Workshop on Tone and Intonation (WTI1), organized by English and Foreign Languages University, Hyderabad, India (<http://www.iitg.ernet.in/hss/WTI2012/>),

國立臺灣師範大學人才躍昇計畫延攬國際優秀人才學術活動計畫書

請以不超過一頁的篇幅，擬訂到校的學術活動，含演講題目與次數、研究諮詢(內容)、工作坊等。

1. Teach a graduate seminar on tone and intonation (or other topics related to Chinese phonetics);
2. Hold a one-day workshop on experimental/instrumental phonetics (students learn to use various tools for analyzing Mandarin sounds);
3. Provide consultation for phonetics-related research projects on campus;
4. Work with NTNU colleagues to develop a joint research project involving both NTNU and UCL and seek external grant support;
5. Provide consultation for the NTNU Top University Project.

