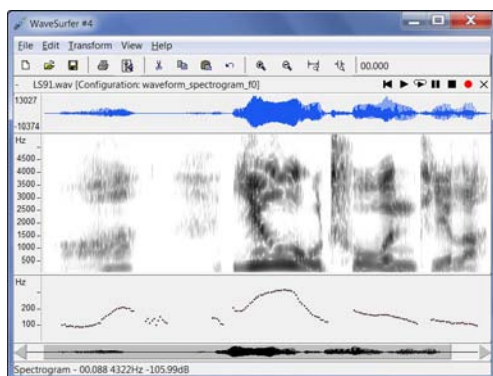


Marjorie K.M. Chan

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SPRING QUARTER 2011

CHINESE 782

Chinese Phonology

Professor Marjorie K.M. Chan
Dept. of East Asian Langs. & Lits.
The Ohio State University
Columbus, OH 43210
U.S.A.

COURSE: Chinese 782. Chinese Phonology
Class No. & Credit Hours: 26592 3 credits. G
Prerequisites: Chinese 680 or 681, or permission of instructor
Course page: <http://people.cohums.ohio-state.edu/chan9/c782.htm>

TIME & PLACE: F 1:30 - 4:18 p.m.
351 Hagerty Hall (1775 College Road)

OFFICE HOURS: T 3:30 - 5:00 p.m., or by appointment
Office: 362 Hagerty Hall (1775 College Road)
Tel: 292.3619 (292.5816 for messages, 292.3225 for faxes)
E-mail: chan.9@osu.edu

MC's Home Page: people.cohums.ohio-state.edu/chan9
MC's ChinaLinks: ChinaLinks.osu.edu

TEXTBOOKS

1. Lin, Yen-Hwei. 2007. *The Sounds of Chinese*. Cambridge, UK: Cambridge U. Press. [ISBN: 978-0-521-60398-0 (pbk); Call No.: PL1205 .L56 2007] **Required**. Available from SBX (1806 N. High Street, (Tel) 291.9528).
2. **Additional Readings:**
Additional readings are typically e-journal articles that can be retrieved from OSU Libraries' online catalog. First, go to [Ohio State University Libraries](http://library.osu.edu) <library.osu.edu>, and scroll down to "Online Journals." Either enter a search or click on the link to "Online Journals List" to find the relevant e-journal title. Alternatively, go to OhioLINK's Electronic Journal Center (EJC) to locate the e-journal. Other readings, scanned to PDF format by Electronic Reserves, will be available for downloading from Carmen.osu.edu under the current course. Additional readings will be made available during the course.

Thompson (Main) Library Reserve and Electronic Reserves:

Some reference books will be placed in Closed Reserve at Thompson (Main) Library (loan periods may vary) during the quarter, among them being the textbook (4-hour loans). (Note: Reserved materials in Closed Reserve are for the specified quarter only.)

Check [Ohio State University Libraries](http://library.osu.edu) <library.osu.edu> for an online list of books and readings placed on Reserve for Chinese 782. Under FIND in the menubar, select COURSE RESERVES, and then choose either “Print Reserves by Course” or “Print Reserves by Professor.” Readings in PDF format prepared by OSU Libraries for e-Reserve can be retrieved under this course in Carmen.

COURSE DESCRIPTION

Chinese 782 investigates the phonological structure of modern (Mandarin) Chinese. Other Chinese dialects may also be included for comparative purposes.

COURSE OBJECTIVES & EXPECTED OUTCOMES

This course serves as a further, more in-depth study of the phonetics and phonology of modern (Mandarin) Chinese beyond the introductory level (Chinese 680). Students are also introduced to some issues in Chinese phonetics and phonology from cognitive and functional perspective to prepare them for graduate seminars and further investigation into Chinese phonetics and phonology for linguistic purposes, or for more applied linguistic purposes in second language acquisition. Dialects of Chinese may also be included for cross-linguistic and comparative purposes.

Students are expected at the end of the course to have gained a solid understanding of the phonological structures and phonetic (articulatory and acoustic) properties of modern (Mandarin) Chinese, in order that they can use their knowledge for more advanced studies and research.

COURSE CONTENT

The course will be conducted through lectures combined with class discussions of assigned readings and other class activities (e.g., acoustic analyses of speech sounds, individual and small-group assignments, etc.). Course work includes students' presentation of one of the readings, their homework assignments, and their research results prior to submission of their term paper.

STUDENT RESPONSIBILITIES

1. Read and reflect on all assigned readings prior to class lectures and discussion.
2. Attend class regularly, and punctually.
3. Participate actively in class discussions and other class activities, including presenting and reporting on homework assignments.
4. Submit 2 short homework assignments (about 5 double-spaced pages, plus references, and accompanying sound files or other data as needed).[1]
5. Explore the literature on Chinese phonetics and phonology, and select one article for presentation and class discussion. (Scheduling of topics and readings will be finalized during the first few weeks of class, after students have selected their article.)

6. For the term paper project:
 - o Turn in a one-page, double-spaced, term paper proposal with select references in Week 6. Submit a digital copy to the Dropbox for the course at [Carmen.osu.edu](https://carmen.osu.edu).
 - o Present an oral version of some key findings from the research project at the end of the quarter.[2]
 - o Submit a short term paper in hardcopy and digital format (about 8 pages, double-spaced, not including references and other supporting materials such as images (e.g., charts and figures), sound files, appendices, etc.[3])
7. All course assignments in digital format are to be uploaded to your Dropbox in [Carmen.osu.edu](https://carmen.osu.edu) under Chinese 782.

[1] These are hands-on, data-driven analyses and written responses to specific questions from the instructor based on the readings. The assignments should be submitted in hardcopy format and in digital format (DOC(X) or PDF format).

[2] Prepare a digital file in PowerPoint format for a PowerPoint presentation in class.

[3] Submit the term paper in hardcopy format and in digital format (DOC(X) or PDF). (If some other digital format is used, be sure to discuss it with the instructor first.)

(Note: For students enrolling for an extra 2 credits under Chinese 693, submit a lengthier research paper, or a third homework assignment (designed by the student with approval from the instructor).)

DISABILITY SERVICES

Students with disabilities that have been certified by the Office for Disability Services will be appropriately accommodated, and should inform the instructor as soon as possible of their needs. The [Office for Disability Services](#) is located in 150 Pomerene Hall, 1760 Neil Avenue (Tel: 292.3307. TDD: 292.0901)

ACADEMIC INTEGRITY (ACADEMIC MISCONDUCT)

Academic integrity is essential to maintaining an environment that fosters excellence in teaching, research, and other educational and scholarly activities. Failure to follow the rules and guidelines established in OSU's [Code of Student Conduct](#) may constitute "Academic Misconduct." OSU's *Code of Student Conduct* (section 3335-23-04 Prohibited conduct) defines as academic misconduct "[a]ny activity that tends to compromise the academic integrity of the university, or subvert the educational process." Examples of academic misconduct include (but are not limited to) plagiarism, collusion (unauthorized collaboration), copying the work of another student, possession of unauthorized materials during an examination, and submission of the same work for credit in two (or more) courses. Ignorance of the University's *Code of Student Conduct* is never considered an "excuse" for academic misconduct; hence, be sure to review the sections dealing with academic misconduct in the *Code of Student Conduct*. Be sure also to read the University's [Ten Suggestions for Preserving Academic Integrity](#) and/or the [Eight Cardinal Rules of Academic Integrity](#) (from Northwestern U.). The University's policy on academic misconduct will be enforced in accordance with Faculty Rule 3335-5-54, and all alleged cases of academic misconduct will be reported to the Office of Academic Affairs' [Committee on Academic Misconduct](#) (COAM) for resolution. In addition, graduate students should be familiar with the [Graduate Student Code of Research and Scholarly Conduct](#) (pdf). Students with questions concerning the University's policies or questions concerning academic or research misconduct are encouraged to ask the instructor any time during the quarter.

GRADING

There will be no midterm or final examination. Grading will be based on:

Class discussions/participation/in-class assignments	30%
Presentation and discussion of article/reading	10%
Homework assignments (2)	20%
Research project (all phases)	40%

	100%

SCHEDULE

Classes are held on Fridays.

The schedule of topics below may be revised subject to changes in students' choices of articles for presentation.

WEEK 1

4/01 Orientation and introduction

- Orientation, Carmen, Carmen Wiki, etc.
- Introduction to phonetics and phonology
- Brief introduction to phonetics and phonology in the past century
- International Phonetic Alphabet (IPA) - Overview and review

In-class reading and discussion:

- Chan (2003) ~ skim
- Chelliah and de Reuse (2011), Ch. 10 ~ skim
- Ladefoged (1999) (Excerpt: pp. 141-150)

WEEK 2

4/08 Modern Standard Chinese

- Overview of modern standard Chinese
- Audio-recording and sound-editing
- Speech analysis and transcriptions using Praat

Readings:

- Lin (Ch. 1 & 6)
- Lee & Zee (2003)
- Speech Analysis Tutorial & Demo

WEEK 3

4/15 Consonants

- Articulatory and acoustic properties; x-ray tracings
- Speech analysis using Praat; analyzing waveforms and reading spectrograms

Readings:

- Lin (Ch. 2)
- Ladefoged and Wu (1984)
- Peng (1993)

WEEK 4

4/22 Vowels, Glides, and Syllable Structure

- Articulatory and acoustic properties; x-ray tracings
- Speech analysis using Praat; formant-plotting and vowel charts

Readings:

- Lin (Ch. 3 & 5)
- 1:30 PM. Guest Speaker: Jing Yang (Ph.D. Candidate, Speech & Hearing Sciences, OSU)
"Perception of English vowels by monolingual and bilingual Mandarin listeners"

Due: Homework Assignment 1.

WEEK 5

4/29 Tones: Production, Perception and Mergers

- Speech analysis using Praat and Wavesurfer

Readings:

- Lin (Ch. 4)
- Bauer, Cheung & Cheung (2003)
- Jongman, Wang, Moore & Sereno (2006)
- Wang, Sereno & Jongman (2006)

WEEK 6

5/06 Segmental and Syllable-Based Processes

Readings:

- Lin (Ch. 7 & 8)
- Tseng (2005)
- Peng et al. (2005)

Due: One-page project proposal and select references.

WEEK 7

5/13 Prosody: Tone Sandhi & Other Tonal Processes, Stress and Intonation

Readings:

- Lin (Ch. 9 & 10)
- Zhang and Lai (2010)
- 1:30 PM. Guest Speaker: Dr. Pusan Wong (Research Scientist, College of Medicine, OSU)
“Acquisition of Mandarin disyllabic tones by children”
- 2:30 PM. Guest Speaker: Visiting Assistant Professor Amanda Miller (Dept. of Linguistics, OSU)
“Studying click consonant production with the Corrected High frame rate Anchored Ultrasound with Software Alignment (CHAUSA) method: Phonological implications.”

Due: Homework Assignment 2.

WEEK 8

5/20 Issues & Topics in Phonology I: Orthography, Near Mergers, and Language Change

Readings:

- Ziegler, Tan, Perry & Montant (2000)
- Yu (2007)
- Q. Zhang (2006)

WEEK 9

5/27 Issues and Topics in Phonology II: Tone, Intonation and Other Phenomena

Readings:

- Lin (Ch. 12)
- Lee (2004)
- Chan & Chey (2011)

WEEK 10

6/03 Student Presentations

WEEK 11: EXAM WEEK

Term paper due: Tuesday, 7 June 2011, 12:00 noon

READINGS

TEXTBOOKS (Specific chapters are assigned.)

1. Lin, Yen-Hwei. 2007. *The Sounds of Chinese*. Cambridge, UK: Cambridge U. Press. [ISBN: 978-0-521-60398-0 (pbk); Call No.: PL1205 .L56 2007]

ADDITIONAL READINGS

Retrieve e-journal articles at [OSU Libraries](#) or go to OhioLINK's [Electronic Journal Center](#) (EJC) to locate the e-journal. (At the EJC website, one can also click “Search” at the top menubar to search the database for the specific e-journal article via searching by “Any Field” (default setting), “Article Title”, “Author Name”, etc.) Readings scanned to PDF format by Electronic Reserves, as well as other readings, for this quarter's offering of Chinese 782 will be available for downloading at Carmen during the course.

1. Bauer, Robert, Kwan-hin Cheung and Pak-man Cheung. 2003. Variation and merger of the rising tones in Hong Kong Cantonese. *Language Variation and Change* 15: 211-225. [OSU e-journal article]
2. Chan, Marjorie K.M. 2003. The digital age and speech technology for Chinese language teaching and learning. *Journal of the Chinese Language Teachers Association* 38.2: 49-86. [See [PDF file](#) (2.6 MB)]

3. Chan, Marjorie K.M. and Jocelyn Chey. (2011. Under review.) 'Love you to the bone' and other songs: Humour and *rusheng* 入聲 rhymes in early Cantopop. In: *Humour in Chinese Life and Letters: Contemporary Approaches. Volume Two*. Edited by Jessica Milner Davis and Jocelyn Chey. Hong Kong: Hong Kong University Press.
 4. Chelliah, Shobhana and Willem J. de Reuse. 2011. *Handbook of Descriptive Linguistic Fieldwork*. New York: Springer. [Excerpt: Chapter 10. "Phonetic and Phonological Fieldwork," pp. 251-278.]
 5. Jongman, Allard, Yue Wang, Corrine Moore, and Joan A. Sereno. 2006. Perception and production of Mandarin tones. In: Ping Li, Li Hai Tan, Elizabeth Bates, and Ovid J.L. Tzeng (editors), *Handbook of East Asian Psycholinguistics. Volume 1: Chinese*. Cambridge, UK: Cambridge University Press. Pages 209-216. [Note: Available from the fourth author's website is a [prepublication version](#) (pdf file).]
 6. Ladefoged, Peter and Zongji Wu. 1984. Places of articulation: an investigation of Pekingese fricatives and affricates. *Journal of Phonetics* 12: 267-278.
 7. Lee, Ok Joo. 2004. How do we ask questions in Mandarin? - An acoustic study of yes-no questions in the Beijing variety of Mandarin. In: Chuanren Ke (editor), *Proceedings of the Sixteenth North American Conference on Chinese Linguistics*. Pages 205-220.
 8. Lee, Wai-Sum and Eric Zee. 2003. Illustrations of the IPA: Standard Chinese (Beijing). *Journal of the International Phonetic Association* 33/1: 109-112. [OSU e-journal article]
 9. Peng, Shu-hui. 1993. Cross-language influence on the production of Mandarin /f/ and /x/ and Taiwanese /h/ by speakers of Taiwanese Amoy. *Phonetica* 50: 245-260.
 10. Peng, Shu-hui, Marjorie K.M. Chan, Chiu-yu Tseng, Tsan Huang, Ok Joo Lee, and Mary E. Beckman. 2005. Towards a Pan-Mandarin system for prosodic transcription. In: Sun-Ah Jun (editor), *Prosodic Typology: The Phonology of Intonation and Phrasing*. Oxford, UK: Oxford University Press. Pages 230-270.
 11. Tseng, Shu-Chuan. 2005. Monosyllabic word merger in Mandarin. *Language Variation and Change* 17: 231-256. [OSU e-journal article]
 12. Wang, Yue, Joan A. Sereno, and Allard Jongman. 2006. L2 acquisition and processing of Mandarin tone. In: Ping Li, Li Hai Tan, Elizabeth Bates, and Ovid J.L. Tzeng (editors), *Handbook of East Asian Psycholinguistics. Volume 1: Chinese*. Cambridge, UK: Cambridge University Press. Pages 250-256. [Note: Available from the second author's website is a [prepublication version](#) (pdf file).]
 13. Yu, Alan C. L. 2007. Understanding near mergers: The case of morphological tone in Cantonese." *Phonology* 24: 187-214. [OSU e-journal article]
 14. Zhang, Jie and Yuwen Lai. 2010. Testing the role of phonetic knowledge in Mandarin tone sandhi. *Phonology* 27.1: 153-201. [OSU e-journal article]
 15. Zhang, Qing. 2006. Cosmopolitan Mandarin: Linguistic practices of Chinese waiqi professionals. *Journal of Asian Pacific Communication* 16.2: 215-235. [OSU e-journal article]
 16. Ziegler, Johannes C., Li Hai Tan, Conrad Perry, and Marie Montant. 2000. Phonology matters: The phonological frequency effect in written Chinese. *Psychological Science* 11.3: 234-238. [OSU e-journal article]
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SUPPLEMENTARY READINGS

1. Andrianopoulos, Mary V., Keith N. Darrow, and Jie Chen. 2001. Multimodal standardization of voice among four multicultural populations: Fundamental frequency and spectral characteristics. *Journal of Voice* 15.2: 194–219.
2. Bassetti, Benedetta. 2006. Orthographic input and phonological representations in learners of Chinese as a foreign language. *Written Language and Literacy* 9.1: 95-114. [OSU e-journal article and also available online at [eprints.bbk.ac.uk.](http://eprints.bbk.ac.uk/)]
3. Blicher, Deborah L. Randy L. Diehl and Leslie B. Cohen. 1990. Effects of syllable duration on the perception of the Mandarin Tone 2/Tone 3 distinction: evidence of auditory enhancement. *Journal of Phonetics* 18: 37-49.
4. Cao, Jianfen. 2004. Intonation structure of spoken Chinese: Universality and characteristics. «语音学与言语处理前沿» (庆祝吴宗济先生 95 华诞论文集). 北京: 外语教学与研究出版社.
5. Chan, Marjorie K.M. 1987. [Tone and melody in Cantonese](#). *Proceedings of the Thirteenth Annual Meeting of the Berkeley Linguistics Society* (1987) 13: 26-37.
6. Chan, Marjorie K.M. 1989. On the status of 'basic' tones. *Acta Linguistica Hafniensia* 21.2: 5-34. [See [PDF file](#) (1.4 MB)]
7. Chan, Marjorie K.M. 1993. [Review of: Xiao-nan Susan Shen \(1990\)](#). *The Prosody of Mandarin Chinese*. Berkeley: University of California Press. *Journal of Phonetics* 21.3: 343-347.
8. Chan, Marjorie K.M. 1996. Sound symbolism and the Chinese language. *Proceedings of the 7th North American Conference on Chinese Linguistics (NACCL) and the 4th International Conference on Chinese Linguistics (ICCL)*. Two volumes, edited by Tsai Fa Cheng, Yafei Li and Hongming Zhang. Los Angeles, CA: GSIL Publications, University of Southern California. Volume 2, pp.17-34. [See [PDF file](#) (210 KB)]
9. Chan, Marjorie K.M. 1996. Some thoughts on the typology of sound symbolism and the Chinese language. *Proceedings of the 8th North American Conference on Chinese Linguistics (NACCL-8)*. Two volumes, edited by Chin-chuan Cheng, Jerome Packard, James Yoon, and Yu-ling You. Los Angeles, CA: GSIL Publications, University of Southern California. Volume 2, pp. 1-15. [See [PDF file](#) (210 KB)]
10. Chao, Yuen-Ren. 1948. The voiced velar fricative as an initial in Mandarin. *Le Maitre Phonétique* 89: 2-3.
11. Chao, Yuen Ren. 1968. *A Grammar of Spoken Chinese*. Berkeley: University of California Press.
12. Chen, Gwang-tsai. 1972. The pitch range of English and Chinese speakers. *Journal of Chinese Linguistics* 2.2:159-171.
13. Chen, Gwang Tsai. 1972. *A Comparative Study of Pitch Range of Native Speakers of Midwestern English and Mandarin Chinese: An Acoustic Study*. Ph.D. dissertation, University of Wisconsin.
14. Chen, Jenn-Yeu. 1999. The representation and processing of tone in Mandarin Chinese: Evidence from slips of the tongue. *Applied Psycholinguistics* 20: 289-301.
15. Chen, Marilyn Y. 2000. Acoustic analysis of simple vowels preceding a nasal in Standard Chinese. *Journal of Phonetics* 28: 43-67.
16. Chen, Matthew Y. 2000. *Tone Sandhi: Patterns Across Chinese Dialects*. Cambridge, UK: Cambridge University Press.
17. Chen, Xi, Hua Shu, Ningning Wu, and Richard C. Anderson. 2003. Stages in learning to pronounce Chinese characters. *Psychology in the Schools* 40.1: 115-124. [OSU e-journal article]

18. Chen, Xi, Richard C. Anderson, Wenling Li, Meiling Hao, Xinchun Wu, and Hua Shu. 2004. Phonological awareness of bilingual and monolingual Chinese children. *Journal of Educational Psychology* 96.1: 142-151. [OSU e-journal article]
19. Chen, Yiya. 2006. Durational adjustment under corrective focus in Standard Chinese. *Journal of Phonetics* 34: 176–201.
20. Cheng, Chin-Chuan. 1968. English stresses and Chinese tones in Chinese sentences. *Phonetica* 18:77-88.
21. Cheng, Chin-chuan. 1973. *A Synchronic Phonology of Mandarin Chinese*. The Hague: Mouton.
22. Davis, Junko. 2004. *A Prosodic Study of the "Inverted Sentence" in Beijing Mandarin*. M.A. thesis, The Ohio State University.
23. Deutsch, Diana, Trevor Henthorn, Elizabeth Marvin, Hong Shuai Xu. 2006. Absolute pitch among American and Chinese conservatory students: Prevalence differences, and evidence for a speech-related critical period (L). *Journal of the Acoustical Society of America* 119.2: 719-722. [OSU e-journal article]
24. Delogu, Franco, Giulia Lampis, and Marta Olivetti Belardinelli. 2006. Music-to-language transfer effect: May melodic ability improve learning of tonal languages by native nontonal speakers? *Cognitive Process* 7: 203-207. [OSU e-journal publication (Letter to the Editor)]
25. Deutsch, Diana. 2002. The puzzle of absolute pitch. *Current Directions in Psychological Science* 11.6: 200-204.
26. Duanmu San. 1995. Metrical and tonal phonology of compounds in two Chinese dialects. *Language* 71.2: 225-259.
27. Duanmu, San. 2007. *The Phonology of Standard Chinese*. Second edition. Oxford, UK: Oxford University Press.
28. Duanmu, San. 2010. *Syllable Structure: The Limits of Variation*. Oxford, UK: Oxford U. Press.
29. Farris, Catherine S. 1995. A semeiotic analysis of sajjiao as a gender marked communication style in Chinese. In: Marshall Johnson and Fred Y.L. Chiu (editors), *Unbound Taiwan: Closeups from a Distance*. (Select Papers Volume No. 8.) Chicago: Center for East Asian Studies, University of Chicago. Pages 1-29.
30. Fu, Qian-Jie, Fan-Gang Zeng, Robert V. Shannon and Sigfrid D. Soli. 1998. Importance of tonal envelope cues in Chinese speech recognition. *Journal of the Acoustical Society of America* 104.1: 505-510.
31. Gandour, Jack, Mario Dzemidzic, Donald Wong, Mark Lowe, Yunxia Tong, Li Hsieh, Namarin Sattamnuwong, and Joseph Luritob. 2003. Temporal integration of speech prosody is shaped by language experience: An fMRI study. *Brain and Language* 84: 318–336
32. Gandour, Jackson, Yunxia Tong, Donald Wong, Thomas Talavage, Mario Dzemidzic, Yisheng Xu, Xiaojian Li and Mark Lowe. 2004. Hemispheric roles in the perception of speech prosody. *NeuroImage* 23: 344–357.
33. Gandour, Jackson, Yunxia Tong, Thomas Talavage, Donald Wong, Mario Dzemidzic, Yisheng Xu, Xiaojian Li, and Mark Lowe. 2007. Neural basis of first and second language processing of sentence-level linguistic prosody. *Human Brain Mapping* 28: 94-108.
34. Goh, Yeng-Seng. 1997. *The Segmental Phonology of Beijing Mandarin*. Taipei: Crane Publishing Co., Ltd.
35. Gottfried, T.L. and T.L. Suiter, T. L. 1997. Effect of linguistic experience on the identification of Mandarin Chinese vowels and tones. *Journal of Phonetics* 25.2: 207-231.

36. Hallé, Pierre A., Yueh-Chin Chang, Catherine T. Best. 2004. Identification and discrimination of Mandarin Chinese tones by Mandarin Chinese vs. French listeners. *Journal of Phonetics* 32.3: 395-421.
37. Howie, John Marshall. 1976. *Acoustical Studies of Mandarin Vowels and Tones*. Cambridge: Cambridge U. Press.
38. Hsiao, Janet Hui-wen and Richard Shillcock. 2005. Foveal splitting causes differential processing of Chinese orthography in the male and female brain. *Cognitive Brain Research* 25.2: 531–536.
39. Hu, Mingyang (胡明扬). 1987. [Putonghua he Beijinghua](#). (普通话和北京话) (Putonghua and Beijinghua). [Part II](#). In: *Beijinghua Chu Tan* (北京话初探) (The online article is a GB-encoded TEXT file that was at Hu Wenzhe's Chinese Dialectology webpage, part of Hu Wenzhe and Tao Hongyin's Chinese Linguistics Page.)
40. Hu, Mingyang (胡明扬). 1991. [Beijinghua shengmu W de yinzhi](#) (北京话声母W音值) (Phonetic value of W initial in Beijing speech). In: *Yuyanxue Lunwen Xuan* (语言论文选) (*Selected Writings in Linguistics*). Beijing: Zhongguo Renmin Daxue Chubanshe. Pp. 244-245. (This online article is a UTF8-encoded webpage (converted from an earlier [GB-encoded](#) webpage that was based on Hu Wenzhe's original MS Word 6 DOC file housed at his Chinese Linguistics website).)
41. Hu, Mingyang. 1991. Feminine accent in the Beijing vernacular: a sociolinguistic investigation. *Journal of the Chinese Language Teachers Association* XXVI.1: 49-54. (Available online at the [Chinese Linguistics Page](#) (under "Sociolinguistics").) (Chinese version in: Hu Mingyang. 1991. Nü guoyin (北京话 '女国音'). In: *Yuyanxue Lunwen Xuan* (语言论文选) (*Selected Writings in Linguistics*). Beijing: Zhongguo Renmin Daxue Chubanshe. Pages 230-243.)
42. Huang, Tsan. 2004. *Language-Specificity in Auditory Perception of Chinese Tones*. Ph.D. dissertation, Ohio State University.
43. Jin, Shunde. 1996. *An Acoustic Study of Sentence Stress in Mandarin Chinese*. Ph.D. dissertation, Ohio State University.
44. Jones, H. Rodney. 1997. Beyond "listen and repeat": Pronunciation teaching materials and theories of second language acquisition. *System* 25.1: 103-112.
45. Jones, Jeffrey A. and K.G. Munhall. 2002. The role of auditory feedback during phonation: Studies of Mandarin tone production. *Journal of Phonetics* 30: 303-320.
46. Khouw, Edward and Valter Ciocca. 2007. Perceptual correlates of Cantonese tones. *Journal of Phonetics* 35: 104–117.
47. Kochetov, Alexei and Connie K. So. 2007. Place assimilation and phonetic grounding: A cross-linguistic perceptual study. *Phonology* 24: 397-432.
48. Kong, Ying-Yee Kong and Fan-Gang Zeng. 2006. Temporal and spectral cues in Mandarin tone recognition. *Journal of the Acoustical Society of America* 120.5:2830–2840.
49. Kratochvil, Paul. 1968. *The Chinese Language Today*. London: Hutchinson University Library.
50. Kratochvil, Paul. 1998. Intonation in Beijing Chinese. In: Daniel Hirst and Albert Di Cristo (editors.), *Intonation Systems: A Survey of Twenty Languages*. Cambridge, UK: Cambridge U. Press. Pages 417-431.
51. Krishnana, Ananthanarayan, Yisheng Xu, Jackson Gandour and Peter Cariani. 2005. Encoding of pitch in the human brainstem is sensitive to language experience. *Cognitive Brain Research* 25: 161-168.

52. LaPolla, Randy. 1994. An experimental investigation into phonetic symbolism as it relates to Mandarin Chinese. In: Leanne Hinton, Johanna Nichols, and John J. Ohala (editors), *Sound Symbolism*. Cambridge, UK: Cambridge U. Press. Pages 130-147.
53. Lee, Ok Joo. 2000. *The Pragmatics and Intonation of Ma-Particle Questions in Mandarin*. M.A. thesis, The Ohio State University.
54. Lee, Ok Joo. 2005. *The Prosody of Questions in Beijing Mandarin*. Ph.D. dissertation, Ohio State University.
55. Li, Aijun. 2002. Chinese prosody and prosodic labeling of spontaneous speech. Paper presented at the Speech Prosody 2002, International Conference, held on 11-13 April 2002 in Aix-en-Provence, France. [Available online from the International Speech Communication Association's [ISCA Archive](#).]
56. Liang, Jie and Vincent J. van Heuven. 2004. Evidence for separate tonal and segmental tiers in the lexical specification of words: A case study of a brain-damaged Chinese speaker. *Brain and Language* 91: 282–293.
57. Liao, Rongrong. 1994. *Pitch Contour Formation in Mandarin Chinese: A Study of Tone and Intonation*. Ph.D. dissertation, Ohio State University.
58. Lin, Hua. 1996. *Mandarin Tonology*. Taipei: Pyramid Press.
59. Liu, Huei-Mei, Feng-Ming Tsao and Patricia K. Kuhl. 2007. Acoustic analysis of lexical tone in Mandarin infant-directed speech. *Developmental Psychology* 43.4: 912–917.
60. Liu, Li, Danling Peng, Guosheng Ding, Zhen Jin, Lei Zhang, Ke Li and Chuansheng Chen. 2006. Dissociation in the neural basis underlying Chinese tone and vowel production. *NeuroImage* 29: 515-523.
61. Liu, Yi and Pascale Fung. 2004. Pronunciation modeling for spontaneous mandarin speech recognition. *International Journal of Speech Technology* 7: 155-172.
62. Mitterer, Holger, Yiya Chen, and Xiaolin Zhou. 2011. Phonological abstraction in processing lexical-tone variation: Evidence from a learning paradigm. *Cognitive Science* 35: 184-197.
63. Myers, James and Jane Tsay. 2003. Investigating the phonetics of Mandarin tone sandhi. *Taiwan Journal of Linguistics* Vol. 1.1: 29-68.
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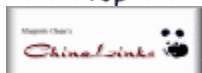
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