Zhe-chen Guo (郭哲宸)

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Education

Ph.D. Candidate in Linguistics, University of Texas at Austin (UT Austin) 2018 – 2023
   Committee: Rajka Smiljanic (chair), Scott Myers, Fernando Llanos, Georgia Zellou (expected)

M.A in Applied Linguistics, National Sun Yat-sen University (NSYSU) 2017
   Thesis title: *The cue of rising tone to spoken word segmentation: A study of listeners of Taiwanese Southern Min*
   Committee: Shu-chen Ou (chair), Aleck Shih-wei Chen, Yung-hsiang Shawn Chang

B.A. in Foreign Languages and Literature, NSYSU 2014

Publications

Peer-reviewed journal articles:

1. Ou, S.-C., & **Guo, Z.-C.** (2022). The effect of lengthening aspiration on speech segmentation. *JASA Express Letters*, *2*(4), 045202. doi:10.1121/10.0010242

2. **Guo, Z.-C.**, & Smiljanic, R. (2021). Speaking clearly improves speech segmentation by statistical learning under optimal listening conditions. *Laboratory Phonology: Journal of the Association for Laboratory Phonology*, *12*(1), 14. doi:10.5334/labphon.310

3. **Guo, Z.-C.**, & Ou, S.-C. (2021). The use of tonal coarticulation in segmentation of artificial language speech: A study with Mandarin listeners. *Applied Psycholinguistics*, *42*(3), 631–655. doi:10.1017/S0142716420000818

4. Ou, S.-C., & **Guo, Z.-C.** (2021). The language-specific use of F0 rise in segmentation of an artificial language: Evidence from listeners of Taiwanese Southern Min. *Language and Speech*, *64*(2), 437–466. doi:10.1177/0023830919886604

5. Ou, S.-C., & **Guo, Z.-C.** (2021). The differential effects of vowel and onset consonant lengthening on speech segmentation: Evidence from Taiwanese Southern Min. *The Journal of Acoustical Society of America*, *149*(3), 1866–1877. doi:10.1121/10.0003751

6. **Guo, Z.-C.**, & Ou, S.-C. (2014). Perception of articulatorily different Mandarin retroflexes by Japanese speakers: A pilot study. *NTU Working Papers in Chinese Language Teaching*, *2*, 1–28. Taipei: National Taiwan University. doi:10.6664/NTUTCSL.201408_(2).0004

7. Ou, S.-C., & **Guo, Z.-C.** (2014). Mandarin retroflex sounds perceived by non-native speakers. *Journal of Language and Literature Studies*, *26*, 41–76.

Peer-reviewed conference proceedings:

1. **Guo, Z.-C.**, & Smiljanic, R. (2021). Speakers coarticulate less when facing real and imagined communicative difficulties: An analysis of read and spontaneous speech from the LUCID corpus. In *Proceedings of Interspeech 2021* (pp. 4009–4013). doi: 10.21437/Interspeech.2021-1640 (presented virtually, Brno, Czechia, August 30–September 3)

2. Ou, S.-C., & **Guo, Z.-C** (2020). The opposite effects of vowel and onset consonant lengthening on speech segmentation. In *Proceedings of the 10th International Conference on Speech Prosody*. doi:10.21437/SpeechProsody.2020-16 (presented virtually, Tokyo, Japan, May 24–28)

3. **Guo, Z.-C.**, & Ou, S.-C. (2019). The use of tonal coarticulation in speech segmentation by listeners of Mandarin. In *Proceedings of the 19th International Congress of Phonetic Sciences*. (orally presented, Melbourne, Australia, August 4–10)

4. Ou, S.-C., & **Guo, Z.-C.** (2019). The role of initial F0 rise in speech segmentation: A cross-linguistic study. In *Proceedings of the 19th International Congress of Phonetic Sciences*. (presented in poster format, Melbourne, Australia, August 4–10.)

5. Ou, S.-C., & **Guo, Z.-C.** (2015). The effect of stress on English word recognition by native speakers of typologically different languages. In *Proceedings of the 18th International Congress of Phonetic Sciences*. (orally presented, Glasgow, UK, August 10–14.)

Fellowships/Grants/Honors

Graduate Research Fellowships ($1,000) British, Irish and Empire Studies (BIES) program, UT Austin	2022
International Speech Communication Association travel grant for *Interspeech* 2021	2021
Carlota Smith Fellowship ($1,231) Department of Linguistics, UT Austin	2020
Government Scholarship to Study Abroad Ministry of Education, Taiwan	2019 – 2021
Acoustical Society of America Student Travel Subsidies ($270)	2019 – 2021
Professional Development Awards ($1,499)	2019
Spring Supplemental Graduate Fellowship ($5,000) Graduate School, UT Austin	2019
Candidate for Best Master's Thesis of the Year Linguistic Society of Taiwan	2017
Five-year B.A./M.A. Combined Degree Program Fellowship ($120,000 NTD) Department of Foreign Languages and Literature, NSYSU	2014 – 2015
College Student Research Grant ($43,000 NTD) Ministry of Science and Technology, Taiwan (Project ID: 102–2815–C–110–010–H)	2013 – 2014
NSYSU Excellent Student Award (5 awards, $30,000 NTD total)	2011 – 2013

Conference Presentations

*: listed as citable abstract

1. **Guo, Z.-C.,** & Smiljanic, R. (2022). Coarticulatory vowel nasalization in read and listener-directed speech across communicative contexts: An analysis of the LUCID corpus. Paper to be presented at the *18th Conference on Laboratory Phonology (LabPhon 18)*, online conference, June 23–25.

2. Ou, S.-C., & **Guo, Z.-C.** (2022). Is onset-consonant lengthening a universal word beginning cue? A cross-linguistic study of English and French listeners. Paper presented virtually at the *29th Manchester Phonology Meeting*, May 25–27.

3. ***Guo, Z.-C.,** & Smiljanic, R. (2022). The degree and time course of nasal coarticulation across communicative contexts: A study of the LUCID corpus. *The Journal of the Acoustical Society of America*, *151*(4), A65. doi: 10.1121/10.0010676 (poster presentation at the *182nd Meeting of the Acoustical Society of America*, Denver, May 23–27)

4. ***Guo, Z.-C.,** & Smiljanic, R. (2021). Coarticulation across communicative contexts: An acoustic analysis of the LUCID corpus using spectral and temporal measures. *The Journal of the Acoustical Society of America*, *150*(4), A70. doi:10.1121/10.0007659 (poster presentation, Seattle, November 29–December 3)

5. Ou, S.-C., & **Guo, Z.-C.** (2021). The effect of aspiration lengthening on speech segmentation: An artificial language learning study. Paper presented virtually at the *28th Manchester Phonology Meeting*, May 26–28.

6. ***Guo, Z.-C.** (2020). Tonal carryover assimilation is exploited as a speech segmentation cue in the case of cue conflict. *The Journal of the Acoustical Society of America*, *148*(4), 2504–2504. doi:10.1121/1.5146952 (presented virtually, December 7–11)

7. Ou, S.-C., & **Guo, Z.-C.** (2020). The effects of segment lengthening on speech segmentation. Paper presented at the *13th International Symposium on Taiwanese Languages and Teaching*, National Tsing Hua University, Hsinchu, October 16–17.

8. ***Guo, Z.-C.,** & Smiljanic, R. (2019). Speaking clearly improves speech segmentation in optimal listening conditions. *The Journal of the Acoustical Society of America*, *146*(4), 3052–3052. doi:10.1121/1.5137579 (poster presentation, San Diego, California, December 2–6)

9. Ou, S.-C., & **Guo, Z.-C.** (2018). The role of lexical tone in speech segmentation by listeners of Taiwanese Southern Min: A corpus and experimental study. Oral presentation at the *7th International Conference on Phonology and Morphology*, Seoul, Korea, June 29–30.

10. Ou, S.-C., & **Guo, Z.-C.** (2017). The language-specific use of F0 rise in speech segmentation by listeners of Taiwanese Southern Min. Oral presentation at *ILAS Workshop on Phonetics and Phonology*, Academia Sinica, Taipei, October 23–24.

11. Ou, S.-C., & **Guo, Z.-C.** (2017). Is the cue of pitch rise to spoken word segmentation used in a language-specific or cross-linguistic way? A study of listeners of Taiwanese Southern Min. Oral presentation at the *Phonetics and Phonology in Europe 2017*, Cologne, Germany, June 12–14.

12. Ou, S.-C., & **Guo, Z.-C.** (2016). The use of lexical tone in spoken word segmentation by Taiwanese Southern Min listeners. Oral presentation at the *24th Annual Conference of the International Association of Chinese Linguistics*, Beijing, China, July 17–19.

13. **Guo, Z.-C.** (2014). Perception of articulatorily different Mandarin retroflexes by Japanese speakers: A pilot study. Oral presentation at the *2nd NTU Postgraduate Conference on Teaching Chinese as a Second Language*, National Taiwan University, Taipei, March 29.

Research Experience

Graduate Student Lab Member   2018 –
 UTSoundLab (Principal Investigator: Rajka Smiljanic)
 Department of Linguistics, UT Austin

Full-time Research Assistant   2017 – 2018
 NSYSU Phonetics and Phonology Lab (Principal Investigator: Shu-chen Ou)
 Department of Foreign Language and Literature, NSYSU

Part-time Research Assistant   2013 – 2017
 NSYSU Phonetics and Phonology Lab (Principal Investigator: Shu-chen Ou)
 Department of Foreign Language and Literature, NSYSU

Teaching Assistantships

At UT Austin:
 Exploring Accents, by Scott Myers (Fall 2020)
 Introduction to the Study of Language, by Nora England (Spring 2019)
 Sound Patterns: Sound to Word, by Megan Crowhurst (Fall 2018, Spring 2021) and Scott Myers (Fall 2019; Spring 2020, Fall 2021, Spring 2022)

At NSYSU:
 Phonetics, by Shu-chen Ou (Fall 2015, Fall 2016)
 Phonology in English Language Teaching and Learning, by Shu-chen Ou (Spring 2016)
 Introduction to English Linguistics (I), by Shu-chen Ou (Fall 2015)
 English Writing I, by Shu-chen Ou (Fall 2016, Spring 2016)
 General English: Intermediate, by Shu-chen Ou (Fall 2016, Spring 2016)

Professional Service

Conferences/workshops:

Conference co-organizer   2019 – 2020
 The 19th Meeting of the Texas Linguistics Society (Feb 14–15, 2020)

Co-lecturer of Workshop on Speech Perception Experiments   2015
 Led hands-on tutorial on designing perceptual experiments using E-Prime 2.0 (National Chengchi University, Oct 30, 2015)

Invited journal reviewer:
 Language and Speech
 JASA Express Letters
 Quarterly Journal of Experimental Psychology

Technical Skills

Programming languages	Python, R/R Markdown
Phonetic analysis	Praat/Praat scripting
Experiment builders	E-Prime 2.0/3.0, PsychoPy, Experiment Builder, Gorilla, Paradigm

Eye-tracker	EyeLink Portable Duo
Statistical software	SPSS, SAS, MATLAB
Audio editor	Audacity, GoldWave

Languages

Taiwan Mandarin	Native
Taiwanese Southern Min	Native
English	Proficient
Japanese	Beginner