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 (expected)
Committee: Rajka Smiljanic (chair), Scott Myers, Fernando Llanos, Georgia Zellou

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. **Guo, Z.-C.**, & Smiljanic, R. (accepted). Speakers coarticulate less in response to both real and imagined communicative challenges: An acoustic analysis of the LUCID corpus. *Journal of Phonetics*.
2. 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
3. **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
4. **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
5. 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
6. 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
7. **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
8. 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 Continuing Fellowship — 2022 – 2023
Graduate School, UT Austin

Taiwanese Overseas Pioneers Grants ($900,000 NTD) — 2022 – 2023
National Science and Technology Council, Taiwan

Dissertation Fellowship for ROC Students Abroad ($20,000, declined) — 2022
Chiang Ching-kuo Foundation for International Scholarly Exchange

Graduate Research Fellowships ($1,000) — 2022
British, Irish and Empire Studies (BIES) program, UT Austin

Interspeech 2021 travel grant — 2021
International Speech Communication Association

Carlota Smith Fellowship ($1,231) — 2020
Department of Linguistics, UT Austin

Government Scholarship to Study Abroad ($32,000) — 2019 – 2021
Ministry of Education, Taiwan

Acoustical Society of America Student Travel Subsidies ($390) — 2019 – 2022

Professional Development Awards ($1,499) — 2019

Spring Supplemental Graduate Fellowship ($5,000) — 2019
Graduate School, UT Austin

Candidate for Best Master's Thesis of the Year — 2017
Linguistic Society of Taiwan

Five-year B.A./M.A. Combined Degree Program Fellowship ($120,000 NTD) — 2014 – 2015
Department of Foreign Languages and Literature, NSYSU

College Student Research Grant ($43,000 NTD) — 2013 – 2014
Ministry of Science and Technology, Taiwan (Project ID: 102–2815–C–110–010–H)

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). Coarticulation is reduced in clear speech produced with protective face masks. *The Journal of the Acoustical Society of America 152*(4), A286. doi: 10.1121/10.0016295 (poster presentation at the *183rd Meeting of the Acoustical Society of America*, Nashville, December 5–9)

2. Dai, S., Frank, K., Jess, N., **Guo, Z.-C.** (2022). Network effects on Twitter users' language use and issue disposition of CRT: A machine-learning approach investigating the influence model. Paper presented at the *2022 Midwest Sociology of Education Conference*, University of Notre Dame, Indiana, October 27–28.

3. **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 presented at the *18th Conference on Laboratory Phonology (LabPhon 18)*, online conference, June 23–25

4. 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.

5. ***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)

6. ***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)
7. 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.
8. ***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)
9. 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.
10. ***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)
11. 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.
12. 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.
13. 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.
14. 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.
15. **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 Research Assistant — 2022 –
Assistant for Neural Speech Decoding project (full-time: Jul – Aug 2022; PIs: Jun Wang & David Harwath)
Department of Computer Science, UT Austin

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

Research Assistant — 2013 – 2018
Assistant (full-time: 2017–2018; part-time: 2013–2017) for NSYSU Phonetics and Phonology Lab (PI: 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

Invited talks/workshops/conferences:

NYCU Phon Brown Bag Series — 2022
Talk to be given virtually at National Yang Ming Chiao Tung University (Dec 16, 2022)

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	MATLAB, SPSS, SAS
Audio editor	Audacity, GoldWave

Languages

Taiwan Mandarin	Native
Taiwanese Southern Min	Native
English	Proficient
Japanese	Beginner