

# Zhe-chen Guo (郭哲宸)

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## Education

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<b>Ph.D. Candidate in Linguistics</b> , University of Texas at Austin (UT Austin)	2018 – 2023
Committee: Rajka Smiljanic (chair), Scott Myers, Fernando Llanos, Georgia Zellou	(expected)
<b>M.A in Applied Linguistics</b> , National Sun Yat-sen University (NSYSU)	2017
Thesis title: <i>The cue of rising tone to spoken word segmentation: A study of listeners of Taiwanese Southern Min</i>	
Committee: Shu-chen Ou (chair), Aleck Shih-wei Chen, Yung-hsiang Shawn Chang	
<b>B.A. in Foreign Languages and Literature</b> , NSYSU	2014

## Publications

### Peer-reviewed journal articles:

1. **Guo, Z.-C.**, & Smiljanic, R. (under review). 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](https://doi.org/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](https://doi.org/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](https://doi.org/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](https://doi.org/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](https://doi.org/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](https://doi.org/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](https://doi.org/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](https://doi.org/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

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Graduate Continuing Fellowship Graduate School, UT Austin	2022 – 2023
Taiwanese Overseas Pioneers Grants (\$900,000 NTD) National Science and Technology Council, Taiwan	2022 – 2023
Dissertation Fellowship for ROC Students Abroad (\$20,000, declined) Chiang Ching-kuo Foundation for International Scholarly Exchange	2022
Graduate Research Fellowships (\$1,000) British, Irish and Empire Studies (BIES) program, UT Austin	2022
Interspeech 2021 travel grant International Speech Communication Association	2021
Carlota Smith Fellowship (\$1,231) Department of Linguistics, UT Austin	2020
Government Scholarship to Study Abroad (\$32,000) 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

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\*: 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](https://doi.org/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

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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

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### 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

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### 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

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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

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Taiwan Mandarin	Native
Taiwanese Southern Min	Native
English	Proficient
Japanese	Beginner