

Robin Park Karlin

Postdoctoral Fellow
Waisman Center
UW-Madison

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Employment

- 2019 - present **Waisman Center, UW-Madison**
Postdoctoral research fellow
PI: Benjamin Parrell
- 2018 - 2019 **Department of Linguistics, Rutgers University**
Visiting assistant professor

Education

- 2018 **Ph.D. in Linguistics**, Cornell University
Minor in Southeast Asian studies
Dissertation: Towards an articulatory model of tone: a cross-linguistic investigation
Committee: Draga Zec (chair); Abigail Cohn, Mats Rooth (minor members); Elizabeth Zsiga (external member)
- 2015 **MA in Linguistics**, Cornell University
- 2012 **Bachelor of Arts**, University of Wisconsin—Madison
Linguistics
Psychology
Spanish Literature

Awards and grants

- 2023 Protege at ASHA Lessons For Success Program
- 2021 - 2023 NIH F32 postdoctoral fellowship F32DC019535: “Differential contributions of domain-general cerebellar timing mechanisms to temporal deficits in ataxic dysarthria”
- 2020 - 2021 NIH T32 training grant 5T32DC005359-15 (PI: Caroline A. Niziolek)
- 2018 Student travel award (LabPhon16)
- 2018 IPA student award (LabPhon16)
- 2016 - 2017 Sage Fellowship
- 2014, 2015, 2016, 2017 Travel grant (Cornell University, graduate school)
- 2016 IPA student award (TIE 2016)
- 2015-2016 Foreign Language and Area Studies for Burmese
- 2015 LSA Summer Studies Institute Fellowship
- 2012 - 2013 Sage Fellowship
- 2012 Foreign Language and Area Studies for Thai

Papers

- in prep* (with Benjamin Parrell) The neural mechanisms of speech timing: the state of the field
- 2022 **Karlin, R.** and Parrell, B. Speakers monitor auditory feedback for temporal coincidence and linguistically relevant duration. *Journal of the Acoustical Society of America*. <https://doi.org/10.1121/10.0015247>
- 2022 Karlin, R. Expanding the gestural model of lexical tone: evidence from two dialects of Serbian. *Journal of Laboratory Phonology*
- 2021 **Karlin, R.**, Naber, C., and Parrell, B. Auditory feedback is used for adaptive control of timing in speech. *Journal of Speech, Language, and Hearing Research*. https://doi.org/10.1044/2021_JSLHR-21-00021
- 2021 Karlin, R. Finnish inserted vowels: a case of phonologized excrement. *Nordic Journal of Linguistics*. <https://doi.org/10.1017/S033258652100007X>
- 2018 Karlin, R. Effects of syllable onset on the timing of pitch accent in Belgrade Serbian. *Proceedings of the Linguistic Society of America*, 36:1 - 15. <https://doi.org/10.3765/plsa.v3i1.4324>
- 2015 Karlin, R. Second mora lengthening in the Savo and Pohjois-Pohjanmaa dialects of Finnish. *Cornell Working Papers in Phonetics and Phonology*, 121 - 138.
- 2015 **Karlin, R.** and Tilsen, S. The articulatory tone-bearing unit: Gestural coordination of lexical tone in Thai. *Proceedings of Meetings on Acoustics*. <https://doi.org/10.1121/2.0000089>
- 2015 Tilsen, S., Spincemaille, P., Wang, Y., Xu, B., Doerschuk, P., Luh, W., **Karlin, R.**, Yi, H., and Feldman, E. A real-time MRI investigation of anticipatory posturing in prepared responses. *Proceedings of Meetings on Acoustics*. <https://doi.org/10.1121/2.0000006>
- 2014 Karlin, R. The articulatory TBU: Gestural coordination of lexical tone in Thai. *Cornell Working Papers in Phonetics and Phonology*, 124 - 129.

Presentations

Invited talks

- 2023 *Interactions between domain-general motor functions and linguistic knowledge in speech timing*, Invited colloquium at the University of Southern California, February 6
- 2022 *Insights from timing on the phonetics-phonology interface*, Invited colloquium at UCLA, February 7 (Includes collaborative work with Benjamin Parrell and Chris Naber)
- 2021 *Effects of phonological structure on speech motor control of timing*, Invited colloquium at Institut für Phonetik und Sprachverarbeitung, November 24 (Collaborative work with Benjamin Parrell and Chris Naber)
- 2021 *The domain generalizability of cerebellar timing mechanisms: a preliminary study*, Invited talk at Brain and Bagels seminar at University of Wisconsin-Madison, April 16
- 2019 *Towards an articulatory model of tone: an investigation on two dialects of Serbian*, Invited colloquium at University of Wisconsin-Madison, July 1

- 2019 *Phonology in phonetics and phonetics in phonology: interactions between tones and segments*, Invited colloquium at Rutgers University, March 29
- 2019 *The interface between phonetics and phonology: the case of Finnish vowel insertion*, Invited teaching seminar at Rutgers University, March 28

Refereed presentations

- 2022 Tesch, E.*, **Karlin, R.***, Tang, D-L, Niziolek, C. A.[°], and Parrell, B.[°] *Lexical tone but not arbitrary f0 is co-planned with segmental gestures*. 8th International Conference on Speech Motor Control, Aug 27-29 [Poster]
- 2022 **Karlin, R.** and Parrell, B. *Adaptation to auditory perturbations of consonant duration in syllable onset is modulated by phonemic category boundaries*. Conference on Motor Speech 2022, February 17 - 20 [Talk]
- 2020 **Karlin, R.**, Naber, C. and Parrell, B. *Auditory feedback is used for both online and adaptive control of timing in speech*. International Seminar on Speech Production (ISSP 12), December 14 - 18 [Poster]
- 2020 **Karlin, R.**, Naber, C. and Parrell, B. *Adaptation in vowels for real-time temporal perturbation*. Acoustical Society of America (ASA 179), December 8 - 12 [Poster]
- 2020 Sanker, C. and **Karlin, R.** *Perceptual evidence for the representation of English coda voicing*. Linguistic Society of America (LSA 2020), January 2 - 5 [Talk]
- 2019 Karlin, R. *Extending the articulatory model of tone: the case of Valjevo Serbian*. Manchester Phonology Meeting (MFM27), May 23 - 25 [Poster]
- 2018 Karlin, R. *Phonetic evidence for the phonological association of rising pitch accents in Valjevo Serbian*. LabPhon16, June 19 - 22 [Poster]
- 2018 Karlin, R. *Effects of syllable onset on the timing of pitch accent in Belgrade Serbian*. Linguistic Society of America (LSA 2018), January 4 - 7 [Talk]
- 2017 Karlin, R. *The role of targets and timing in tonal representation*. Linguistic Society of America (LSA 2017), January 5 - 8 [Talk]
- 2016 Karlin, R. *The independence of the timing of tones and tone-bearing units: a study on Thai*. Tone and Intonation in Europe 2016, September 1 - 3 [Talk]
- 2015 Karlin, R. *The coordination of tone gestures in Thai*. Manchester Phonology Meeting (MFM23), May 28 - 30 [Talk]
- 2014 Karlin, R. and Tilsen, S. *The articulatory TBU: Gestural coordination of lexical tone in Thai*. Acoustical Society of America (ASA 168), October 27 - 31 [Poster]
- 2014 Tilsen, S., Spincemaille, P., Xu, B., Doerschuk, P., **Karlin, R.**, Yi, H., Feldman, E., Luh, W., Wang, Y. *Some people are eager to be heard: anticipatory posturing in speech production*. Acoustical Society of America (ASA 168), October 27 - 31
- 2014 Karlin, R. *Finnish dialectical vowel epenthesis: Two distinct types of vowel insertion*. Manchester Phonology Meeting (MFM22), May 28 - 31 [Talk]
- 2012 Karlin, R. *Diphthong and Tone Alignment in Conversational Thai Speech*. Southeast Asian Studies Summer Institute Student Conference [Talk]

*, [°] = equal contribution

Professional development

CLINICAL EXPERIENCE

- Shadowing with Dr. Heather Clark, Mayo Clinic, Rochester, MN (semiannually 2021 - 2023)

PEDAGOGICAL TRAINING

- Pedagogical methods for first-year writing seminars, Cornell University (Summer 2014)
- Pedagogical methods for Romance languages, Cornell University (Spring 2015)

Teaching experience

UW-MADISON

- **Co-developer** (with Sarah Bakst), BLAB and SMAC Intro to Computing (basic introduction to Git and Matlab)
- Guest lecture on sampling rate for CS&D 303 Speech Acoustics and Perception (Professor Caroline A. Niziolek). Fall 2019.

RUTGERS UNIVERSITY

- **Instructor**, Linguistics 451: Phonetics. Spring 2019
- **Instructor**, Linguistics 201H: Introduction to Linguistic Theory (honors). Spring 2019
- **Instructor**, Linguistics 520: Phonology III (graduate seminar in Articulatory Phonology). Fall 2018
- **Instructor**, Linguistics 315: Phonology. Fall 2018

CORNELL UNIVERSITY

- **Teaching assistant**, Psychology 2090: Developmental Psychology. Spring 2018 (Instructor: Jennifer Schwade)
- **Instructor**, Linguistics 1100 (First-year writing seminar): Language, Mind and Brain: How to Build a Language. Spring 2014, Fall 2014, Fall 2017
- **Teaching assistant**, Linguistics 3302: Introduction to Phonetics and Phonology. Spring 2015 (Instructor: Sam Tilsen)
- **Teaching assistant**, Linguistics 1101: Introduction to Linguistics. Fall 2013 (Instructor: Sarah Murray)

Advising and mentorship

UW-MADISON

- **Riya Patel**, Spring 2021 - Spring 2023. Co-mentor with Benjamin Parrell. Research project for BIO 152; Sophomore Research Fellowship (UW-Madison internal fellowship).
- **Emily Tesch**, 2021 - 2023. Co-mentor with Benjamin Parrell.
- **Tessa Jester**, Fall 2022 - Spring 2023.

RUTGERS UNIVERSITY

- **Nate Koser**, 2018-2019. Qualifying paper committee (minor member), Rutgers University.
- **Chris Oakden**, 2018-2019. Qualifying paper committee (minor member), Rutgers University.

Service

Volumes edited

- 2016: **FASL 25**, co-editor of proceedings
- 2015: **CWP3**, Cornell Working Papers in Phonetics and Phonology, co-editor

Conference organizing committees

- 2015-2016: **LabPhon15**, member of organizing committee
- 2015-2016: **FASL 25**, member of organizing committee

Cornell Linguistics Circle (department graduate student group)

- 2015-2017: Organizer of coffee and conversation hour
- 2013-2015: Treasurer
- Spring 2013: Prospective Student Weekend Co-Coordinator
- 2012-2013: Librarian

Outreach

- September 2022: Gave a talk on ongoing ataxia research to cerebellar ataxia support group
- June 2022: Gave a talk on motor speech and ongoing ataxia research to SCA6 support group
- April 2022: Co-hosted a booth “How Our Senses Help Us Move” at UW Science Expeditions
- Spring 2015: Led a short course on perception for 7th-12th graders at Splash! at Cornell

Skills

Languages

NATIVE	English
ADVANCED	Spanish
INTERMEDIATE	French, Finnish
BEGINNER	Serbian, Thai, Burmese
RESEARCH	Thai, Serbian, Finnish, S’Gaw Karen, Burmese

Computing and experimental methodologies

PROFICIENT	Acoustic methods, electromagnetic articulography (NDIWave system), Audapter (altered auditory feedback), Gorilla Praat, Praat scripting, Matlab, R, Git
	L ^A T _E X(Beamer, Bibtex), Microsoft Office
SOME EXPERIENCE	PsychoPy, Python, E-Prime, Unix shell scripting, Javascript, C++