

# Robin Park Karlin

Assistant Professor  
Speech, Language, and Hearing Sciences  
University of Missouri

August 22, 2023  
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## Academic appointments

- 2023 - present      **Assistant Professor, University of Missouri**  
Department of Speech, Language, and Hearing Sciences  
Director, Neural Substrates of Speech and Timing Lab
- 2021 - 2023      **Postdoctoral Fellow, University of Wisconsin - Madison**  
Speech Motor Action + Control Lab, Waisman Center  
Grant: NIH F32DC019535 “Differential contributions of domain-general cerebellar timing mechanisms to temporal deficits in ataxic dysarthria”  
Sponsor: Benjamin Parrell
- 2019 - 2021      **Postdoctoral Research Associate, University of Wisconsin - Madison**  
Speech Motor Action + Control Lab, Waisman Center  
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
- 2023 **Karlin, R.**, Naber, C. and Parrell, B. Speakers compensate for temporal perturbations in auditory feedback regardless of syllable structure. *Proceedings of the 20th International Congress on Phonetic Sciences*.
- 2023 Slis, A., **Karlin, R.** and Parrell, B. Unsupervised clustering reveals several subtypes in speakers with ataxia. *Proceedings of the 20th International Congress on Phonetic Sciences*.
- 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](https://doi.org/10.1044/2021_JSLHR-21-00021)
- 2021 Karlin, R. Finnish inserted vowels: a case of phonologized excrescence. *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

- 2023 **Karlin, R.**, Naber, C. and Parrell, B. *Speakers compensate for temporal perturbations in auditory feedback regardless of syllable structure*. 20th International Congress on Phonetic Sciences, Aug 7-11 [Talk]
- 2023 Slis, A., **Karlin, R.** and Parrell, B. *Unsupervised clustering reveals several subtypes in speakers with ataxia*. 20th International Congress on Phonetic Sciences, Aug 7-11 [Talk]
- 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.
- **Autumn Smith**, Summer 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 <sup>A</sup> T <sub>E</sub> X(Beamer, Bibtex), Microsoft Office
SOME EXPERIENCE	PsychoPy, Python, E-Prime, Unix shell scripting, Javascript, C++