

## Sandie Keerstock, PhD

205A Marx Bldg, 1416 Carrie Francke Dr., University of Missouri  
skeerstock@missouri.edu | website: [mulamplab.org](http://mulamplab.org)

### EDUCATION

<b>Ph.D. in Linguistics</b> The University of Texas at Austin	2020
<b>M.A. in Linguistics</b> The University of Texas at Austin	2018
<b>M.A. in Phonetics &amp; Phonology</b> Paris III Sorbonne Nouvelle-Paris VII Diderot, France	2015
<b>M.A. in Teaching French as a Foreign Language</b> Grenoble III Stendhal University, France	2012
<b>B.A. in English Studies</b> Université de Pau et des Pays de l'Adour, France	2009

### CURRENT POSITION

<b>Lead Research Specialist</b> Department of Psychological Sciences, University of Missouri Lab manager of the Learning and Memory Psychophysiology Lab (LAMP Lab). I manage several research projects, including NIH R00-AA029169 (PI Cofresi)	June 2024-Present
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### RESEARCH EXPERIENCE

<b>Research Lab Coordinator</b> Department of Psychological Sciences, University of Missouri <u>Social Cognitive and Addiction Neuroscience Lab (SCANlab)</u> , PI: Dr. Bruce Bartholow	May 2021-May 2023
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1) Coordinated research activities, including NIH-funded study (Characterizing Low Alcohol Sensitivity in Laboratory and Real-World Contexts, R01-AA-025451, Five-Year Budget ~\$2,670,000)

- **Trained & supervised** a research team of 10 paid undergraduate and postbac staff and 15+ volunteer staff. Oversaw staff recruitment, onboarding, semesterly evaluation, hours approval for payroll.
- Executed advanced technical data collection including scalp electroencephalography (EEG) and semi-structured clinical interviews.
- Performed data processing, scoring, visualization, and statistical analyses (RStudio).
- Developed participant recruitment & retention strategies, designs ads and flyers.
- Wrote IRB applications, annual reports, and RPPR.
- Assisted with competing grant applications, manuscripts, and scientific dissemination.
- Maintained research data, participant files, regulatory binders, and study databases (REDCap)
- Developed lab protocol optimizations.
- Maintained lab supplies inventory; arranged timely equipment repairs or replacement with vendors; purchased supplies & equipment; reconciled charges and maintains receipts for reporting.
- Scheduled workflow to assure proper utilization of lab spaces, rooms, equipment, and staff.

- **Mentored students doing independent research projects;** provided beginner-level training in research methods and the use of RStudio.

Submitted IRB applications for NIH R01-AA-030728 & R01-AA-030914 (PI: Bartholow)2) Submitted human subject IRB applications for NIH R01-AA-030728 & R01-AA-030914 (PI: Bartholow)

### Research Technician

Sept 2020-April 2021

Department of Psychological Sciences, University of Missouri

Social Cognitive and Addiction Neuroscience Lab (SCANlab), PI: Dr. Bruce Bartholow

- Conducted laboratory sessions involving collection of EEG and behavioral data (NIH R01-AA-025451. MPI: B. Bartholow, T. Piasecki.)
- Lead recruitment (70 participants) and data collection (EEG, behavioral), for NIH-funded study (*Racial discrimination and mental health: temporal dynamics and neurocognitive moderators* F31-MD-012751, PI: H. Volpert-Esmond).

### Graduate Student Researcher

2015-2020

Department of Linguistics, The University of Texas at Austin

UT Sound Lab, PI: Rajka Smiljanic

- Designed & conducted behavioral experiments on speech perception, production & auditory memory. Recruited 370+ research participants. Cleaned and annotated large spoken datasets of 21,000+ recordings. Performed acoustic and statistical analyses (e.g., regression, Anova, mixed-models) and data visualization.

### MANUSCRIPTS UNDER REVIEW / IN PREP

**Cofresí, R. U.,** Keerstock, S., \*Kohen, C. B., Piasecki, T. M., & Bartholow, B. D. Alcohol approach-avoidance task behavior and brain potentials forecast ecologically assessed alcohol craving and consumption in early emerging adulthood. in prep.

### PEER - REVIEWED PUBLICATIONS

**Keerstock, S.,** Smiljanic, R. (2021). Reading aloud in clear speech reduces sentence recognition memory and recall for native and non-native talkers. *J. Acoust. Soc. Am.* 1 November 2021; 150 (5): 3387–3398. <https://doi.org/10.1121/10.0006732>

Smiljanic, R., **Keerstock, S.,** Meemann, K., Ransom, S. M. (2021). Face masks and speaking style affect audio-visual word recognition and memory of native and non-native speech. *J. Acoust. Soc. Am.* 1 June 2021; 149 (6): 4013–4023. <https://doi.org/10.1121/10.0005191>

**Keerstock, S.,** & Smiljanic, R. (2019). Clear speech improves listeners' recall. *The Journal of the Acoustical Society of America*, 146(6), 4604–4610. <https://doi.org/10.1121/1.5141372>

**Keerstock, S.,** & Smiljanic, R. (2018). Effects of intelligibility on within- and cross-modal sentence recognition memory for native and non-native listeners. *The Journal of the Acoustical Society of America*, 144(5), 2871–2881. <https://doi.org/10.1121/1.5078589>

Conference proceedings

Holgate, E., **Keerstock, S.,** Tyeklar, N., and Pinette, L., Eds. (2016). Proceedings from the Symposium About Language and Society Austin XXIV, Texas Linguistic Forum, 59.

### CONFERENCE PRESENTATIONS

(\* undergraduate mentee)

- \*Gutierrez, M. C., **Keerstock, S.**, Cofresí R. U. “Reduced Sleep Hours and Increased Alcohol Cravings in Young Adults”. 48th Annual Research Society on Alcohol Scientific Meeting/ISBRA Congress. June 21-25, 2025. New Orleans, LA.
- \*Terry, D., **Keerstock, S.**, Cofresí R. U. “Exploration of Behavioral and Neural Responses to Visual Cues Experimentally Paired with Intra-Oral Alcohol Receipt in the Human Laboratory”. 48th Annual Research Society on Alcohol Scientific Meeting/ISBRA Congress. June 21-25, 2025. New Orleans, LA.
- Maralit A.M., Haney A.M., McMullin S.D., **Keerstock S.**, Cofresi R.U., McCarthy D.M., Bartholow B.D. Task-specific variability of executive cognitive functioning and subjective response to alcohol. Research Society on Alcohol Scientific Meeting. June 24-28, 2023. Bellevue, WA.
- \*Drzewiecki, H., \*Chen, J., **Keerstock, S.**, Cofresi, R.U., Bartholow, B.D. Alcohol craving in a laboratory setting among emerging adults. Undergraduate Research Week. University of Missouri—Columbia. April 2023.
- \*Flowers, I., Brancalone, P., Cofresi, R.U., **Keerstock, S.**, Bartholow, B.D. The influence of social network drinking behavior and a family history of problematic drinking on alcohol involvement in underage, emerging-adult drinkers. Presented at the 95th annual Midwestern Psychological Association, Chicago, IL. April 2023; and at Undergraduate Research Week. University of Missouri—Columbia. April 2023.
- \*Crum, J., **Keerstock, S.**, Kohen, C., Bartholow, B.D. Refined Alcohol Sensitivity Questionnaire: improving our ability to predict problematic drinking. Undergraduate Research Week. University of Missouri—Columbia. April 2022.
- Keerstock, S.**, Meemann, K., Ransom, S. M., & Smiljanic, R. (2020). Effects of face masks and speaking style on audio-visual speech perception and memory. *The Journal of the Acoustical Society of America*, 148(4), 2747. <https://doi.org/10.1121/1.5147635>
- Keerstock, S.**, \*Ballard, F., & Smiljanic, R. (2020). Enhanced memory for sentences read aloud conversationally versus clearly: Evidence from sentence recognition memory and recall. *The Journal of the Acoustical Society of America*, 148(4), 2499. <https://doi.org/10.1121/1.5146929>
- Keerstock, S.**, & Smiljanic, R. (2020). Effects of clear speech perception and production on recall and recognition memory for native and non-native listeners and talkers. *Psychonomics 61st Annual Meeting*
- Keerstock, S.**, & Smiljanic, R. (2019). Reading aloud in a clear speaking style may interfere with sentence recognition memory. *The Journal of the Acoustical Society of America*, 145(3), 1911–1911. Louisville, KY. <https://doi.org/10.1121/1.5101936>
- Keerstock, S.**, & Smiljanic, R. (2019). Memory for speech of varying intelligibility. Conference on Learning and Memory. The University of Texas at Austin, Austin, TX. April 26-27, 2019.
- Keerstock, S.**, & Smiljanic, R. (2018). Recall of clearly spoken sentences. *The Journal of the Acoustical Society of America*, 144(3), 1727–1727. Victoria, BC, Canada. <https://doi.org/10.1121/1.5067662>
- Keerstock, S.**, & Smiljanic, R. (2018). Sources of enhanced sentence recognition memory for native and non-native listeners. 16th Conference on Laboratory Phonology, Lisbon, Portugal.
- Shafiro, V., Smiljanic, R., & **Keerstock, S.** (2018). Semantic context modulates intelligibility advantage of clear speech in temporally compressed sentences. *The Journal of the Acoustical Society of America*, 143(3), 1921–1921. Minneapolis, MN. <https://doi.org/10.1121/1.5036268>

**Keerstock, S., & Smiljanic, R. (2017).** Effects of intelligibility on within- and cross-modal sentence recognition memory. *The Journal of the Acoustical Society of America*, 141(5), 4038–4039. Boston, MA. <https://doi.org/10.1121/1.4989323>

University of Texas at Austin research events

\*Shaddock, G., \*Ballard, F., **Keerstock, S.**, Smiljanic, R. (2020). Reading sentences aloud in casual speaking style improves memory more than reading aloud in clear speaking style. UT undergraduate research week and Linguistics Research Showcase.

\*Ballard, F., **Keerstock, S.**, Smiljanic, R. (2020). Effects of Speaking Style and Foreign-Accentedness On Sentence Recognition Memory. UT undergraduate research week and Linguistics Research Showcase.

\*De La Cruz, L., \*Shaddock, G., \*Ballard, F., **Keerstock, S.**, Smiljanic, R. (2019). Speaking clearly can improve listener memory. UT undergraduate research week and Linguistics Research Showcase.

\*Peña, J., \*Ray, H., \*Smith, I., **Keerstock, S.**, Smiljanic, R. (2017). Effects of intelligibility on sentence recognition memory for native and non- native English listeners. UT undergraduate research week, Linguistics Research Showcase and Liberal Arts Honors Day.

## FELLOWSHIPS, GRANTS & AWARDS

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### Fellowships

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| 2019-2020 | Graduate Continuing Fellowship - Graduate School, The University of Texas at Austin (\$56,000). Competitive university-wide financial support for well-defined program of research in final 5 <sup>th</sup> year of Ph.D. program. |
| 2016-2019 | Recruitment Fellowship - Graduate School, The University of Texas at Austin (4 awards, \$25,000 total). Awards for outstanding graduate students.  |
| 2018-2019 | Carlotta Smith Research Fellowship - Department of Linguistics, The University of Texas at Austin (2 awards, \$1,700 total). Support for graduate students' research in Linguistics.   |

### Non-funded research grants

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| 2019 | F. V. Hunt Postdoctoral Research Fellowship in Acoustics. The Acoustical Society of America. Project: Effects of speech intelligibility on memory for older adults with and without hearing loss. Non-funded. |
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### Awards

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|------|---|
| 2017 | Best Student Paper Award in Speech Communication (First Prize) - Acoustical Society of America. Award for <i>Effects of intelligibility on within- and cross-modal sentence recognition memory</i> . <i>The Journal of the Acoustical Society of America</i> , 141(5), 4038–4039. Boston, MA. <a href="https://doi.org/10.1121/1.4989323">https://doi.org/10.1121/1.4989323</a> |
| 2017 | Teaching Certificate in First-Year Interdisciplinary Instruction - School of Undergraduate Studies, The University of Texas at Austin. For contributions to University of Texas at Austin's Signature Course Teaching Assistant Program.  |

### Travel awards

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| 2017-2019 | Student Travel Subsidy, Acoustical Society of America (4 awards, \$765 total) |
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- 2017-2018 Professional Development Award - Department of Linguistics, The University of Texas at Austin (3 awards, \$1,931 total). Support for presentation of original paper at major professional meetings.
- 2018 Student Travel Grant, Laboratory Phonology LabPhon16 (\$500)

## TEACHING EXPERIENCE

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**Teaching assistant**, Undergraduate Lower & Upper Level –University of Texas at Austin  
Graded weekly homework and exams, held weekly office hours, lead review sessions, and in-class lab activities, guest lectured.

*Fall 2016 (27 enrolled) & Spring 2019 (32 enrolled)*

The Production and Perception of Speech Sounds (Phonetics) - Department of Linguistics

*Fall 2017 (74 enrolled) & Fall 2018 (100 enrolled)*

Language & the Brain - Department of Communication Sciences and Disorders & Linguistics. Topics covered: Neuroanatomy & neurophysiology, research methodologies (ERPs, brain imaging), neuropathology (aphasias), hemispheric specialization for language.

*Fall 2015 (151 enrolled) & Spring 2018 (65 enrolled)*

Intro to The Study of Language - Department of Linguistics

*Spring 2017 (40 enrolled)*

Mayan Languages in Space and Time - Department of Undergraduate Studies & Linguistics. Independently lead 3 discussion sections (3h/week). Topics covered: interdisciplinary research, oral presentation, information literacy, use of campus resources, written essays.

*Spring 2016 (23 enrolled)*

Sound Patterns: Sound to Word (Phonology)  
Department of Linguistics

## **Instructor of record**, French language courses

Developed teaching material and taught beginner to advanced French language courses, including advanced grammar, pronunciation/phonetics activities & cultural activities to adult learners.

- 2013-2014 Korean delegation to OECD and UNESCO, Paris, France
- 2011-2012 Military Academy of Republic of Korea, Seoul, South Korea – Appointed by the Ministry of Foreign Affairs of France
- Spring 2011 National University of Hanoi, Vietnam – Appointed by the Agence Universitaire de la Francophonie
- 2010 Alliance Française, Daegu, South Korea (May-Nov)

## MENTORING

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- 2020- Undergraduate. SCANlab, University of Missouri—Columbia.

- 2015- Undergraduate. UT Sound Lab, The University of Texas at Austin. Mentored 12 research assistants in conducting, implementing, analyzing behavioral experiments and preparing abstracts and poster presentations
- 2009-2010 Undergraduate. Paris V Descartes University, France. Language, academic and cultural mentoring of undergraduate international students enrolled at Paris V Descartes University

## SELECTED MEDIA COVERAGE

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EurekAlert, Acoustical Society of America. (2020, December 10).

[https://www.eurekalert.org/pub\\_releases/2020-12/asoa-fmp120420.php](https://www.eurekalert.org/pub_releases/2020-12/asoa-fmp120420.php)

InsideScience, Marcus Woo. (2020, December)

<https://insidescience.org/news/masks-save-lives-may-hinder-communication>

Times Educational Supplement, Smith, M. (2019, March 3).

Chatty teachers beware: formal delivery boosts learning. <https://www.tes.com/news/chatty-teachers-beware-formal-delivery-boosts-learning>

ScienceDaily, Acoustical Society of America. (2018, November 5).

How clear speech equates to clear memory: Researchers find that a speaker's clearly articulated style can improve a listener's memory of what was said.

[www.sciencedaily.com/releases/2018/11/181105200736.htm](http://www.sciencedaily.com/releases/2018/11/181105200736.htm)

OpenColleges, Briggs, S. (2018, November 21).

<https://www.opencolleges.edu.au/informed/memory-tricks/memory-tricks-clear-speech-enhances-recall/>

Earth, Vandette, K. (2018, November 27).

Speaking clearly shown to improve the listener's ability to remember.

<https://www.earth.com/news/speaking-clearly-listeners-remember/>

Psychology Today, Bergland, C. (2018, November 5).

Tricky Tongue Twisters Can Teach Us to Speak More Memorably.

<https://www.psychologytoday.com/us/blog/the-athletes-way/201811/tricky-tongue-twisters-can-teach-us-speak-more-memorably>

The Daily Texan, Dural, K. (2018, December 5).

UT researchers find that speaking clearly helps listener better retain what was said. Retrieved from <https://thedailytexan.com/2018/12/05/ut-researchers-find-that-speaking-clearly-helps-listener-better-retain-what-was-said>

## PROFESSIONAL SERVICE

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### Peer-reviewer (ad-hoc)

Speech Communication;

The Journal of the Acoustical Society of America;

Studies in Second Language Acquisition;

Texas Linguistics Society

### Departmental and society service

- 2020 Tech Support, Registration Desk Attendant - Texas Linguistics Society  
 2016 Conference Co-Organizer - Symposium About Language and Society Austin (SALSA XXIV), The University of Texas at Austin.  
 2015 Member of the Associated Students of Linguistics - The University of Texas at Austin. Collected donations, managed funds & co-organized events.

### Service to the Acoustical Society of America

- 2021 Co-organizer for the Special Session “Methods and examples of speech studies remotely conducted” (ASA Spring 2021)  
 2020- Student poster judge

### Outreach

- 2018, 2019 Explore UT, The University of Texas at Austin. Participation with UT Sound Lab to campus-wide open house: research experience & hands-on demonstrations to community members.

## PROFESSIONAL MEMBERSHIPS

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- 2020-2021 Psychonomic  
 2018-2020 The Association for Laboratory Phonology (LabPhon)  
 2017-2021 The Acoustical Society of America (Associate member 2020-2021)

## PROFESSIONAL DEVELOPMENT & WORKSHOPS

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- 2022-2023 **Graduate Certificate in Healthcare Project Management, Research Coordinator Track.** University of Missouri—Columbia. 12 credit-hours.  
 2018 Acoustical Society of America School 2018 in Chaska, Minnesota. Living in the Acoustic Environment.  
 2014-19 Jury-evaluator of DELF-DALF (certification for French language proficiency). Accredited by the French Ministry of Education. Five-year validity.

## SKILLS

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- Proficient RStudio, E-Prime (2.0; 3.0), Gorilla.sc, Prolific Ac, SONA, Qualtrics, REDCap, Inkscape (graphic editor), Microsoft Office Pack, Mac/iOS, Github, WordPress, HTML, CSS  
 Curry/NeuroScan (EEG), SQL, JS, PsychoJS/Pavlovia, Python  
 Language French (native), English (native-like)

## PROFESSIONAL REFERENCES

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Available upon request