

VIOLET AURORA BROWN

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EDUCATION

- Present** **Ph.D. in Psychological & Brain Sciences**
Washington University in St. Louis (St. Louis, MO)
Division of Brain, Behavior, and Cognition
Advisor: Kristin J. Van Engen, Ph.D.
- 2019** **M.A. in Psychological & Brain Sciences**
Washington University in St. Louis (St. Louis, MO)
- 2017** **B.A. in Psychology, Magna Cum Laude**
Carleton College (Northfield, MN)
Concentration in Neuroscience

FELLOWSHIPS AND FUNDING

- **National Science Foundation Graduate Research Fellowship: \$132,000**
- **Psychological & Brain Sciences Graduate Student Research Grant, Fall 2018: \$750**
- **Psychological & Brain Sciences Graduate Student Research Grant, Summer 2019: \$595**

PUBLICATIONS

- **Brown, V. A.**, McLaughlin, Strand, J. F., & Van Engen, K. J. (2020). Adaptation to fully intelligible nonnative-accented speech reduces listening effort. *Quarterly Journal of Experimental Psychology*.
- Strand, J. F., **Brown, V. A.**, & Barbour, D. L. (2020). Talking points: A modulating circle increases listening effort without improving speech recognition in young adults. *Psychonomic Bulletin & Review*.
- **Brown, V. A.**, & Strand, J. F. (2019). About face: Seeing the talker improves spoken word recognition but increases listening effort. *The Journal of Cognition*, 2, 44. doi: 10.5334/joc.89
- **Brown, V. A.**, & Strand, J. F. (2019). “Paying” attention to audiovisual speech: Do incongruent stimuli incur greater costs? Registered Report at *Attention, Perception, & Psychophysics*, 81, 1743–1756. doi: 10.3758/s13414-019-01772-x
- Strand, J. F., & **Brown, V. A.** (2019). Publishing open, reproducible research with undergraduates. *Frontiers in Psychology: Educational Psychology*, 10. doi: 10.3389/fpsyg.2019.00564
- **Brown, V. A.**, Hedayati, M., Zanger, A., Mayn, S., Ray, L., Dillman-Hasso, N., & Strand, J. F. (2018). What accounts for individual variability in susceptibility to the McGurk effect? *PLOS One*, 13. doi: 10.1371/journal.pone.0207160

- **Brown, V. A.**, & Strand, J. F. (2018). Noise increases listening effort, regardless of working memory capacity. *Journal of Memory and Language*. doi: 10.1080/23273798.2018.1562084
- Strand, J. F., **Brown, V. A.**, Merchant, M. B., Brown, H. E., & Smith, J. (2018). Measuring listening effort: Convergent validity, sensitivity, and links with cognitive and personality measures. *Journal of Speech, Language, and Hearing Research*, 61, 1463–1486. doi:10.1044/2018_jslhr-h-17-0257
- Strand, J. F., **Brown, V. A.**, Brown, H. E., & Berg, J. J. (2017). Keep listening: Grammatical context reduces but does not eliminate activation of unexpected words. *Journal of Experimental Psychology: Learning, Memory, and Cognition*, 44, 962–973. doi: 10.1037/xlm0000488

PEER-REVIEWED CONFERENCE PROCEEDINGS

- **Brown, V. A.**, Chen, X., Hedayati, M., Sikes, C., Strand, J., Wilson, T., & Liben-Nowell, D. (2019). Node ordering for rescalable network summarization (or, the apparent magic of word frequency and age of acquisition in the lexicon). *Proceedings of the 7th International Conference on Complex Networks and Their Applications*.

MANUSCRIPTS IN PROGRESS

- **Brown, V. A.** (under review at *Advancements in Methods and Practices in Psychological Science*). An approachable introduction to mixed effects modeling with implementation in R.
- **Brown, V. A.**, Strand, J. F., & Van Engen, K. J. (in prep). A modulating circle increases listening effort but can improve speech intelligibility in older adults and young adults in difficult listening conditions.
- Strand, J. F., **Brown, V. A.**, & Fox, N. P. (in prep). Grammatical number guides anticipatory fixations and reduces activation of inconsistent lexical competitors.
- Strand, J. F., & **Brown, V. A.**, et al. (data collection underway). Effect of audiovisual speech across modality, masker type, noise level, and paradigm.
- Strand, J. F., **Brown, V. A.**, Van Engen, K. J., et al. (data collection). Lipreading in English, Dutch, and Mandarin background babble.
- Wilbiks, J., Strand, J. F., & **Brown, V. A.** (data collection underway). Relationships among speech and non-speech audiovisual integration abilities.

INVITED TALKS

- *Registered Reports: A first-hand account of a new publication format*. (March, 2019). Open Science Symposium hosted by Rochester University.
- *Talking points: A modulating circle reduces listening effort without improving speech recognition*. (October, 2018). 23rd Annual Mid-Continental Phonetics & Phonology Conference, Evanston, IL.
- *More Than Meets the ear: Visual contributions to speech perception* (July, 2018). Carleton College Summer Science Tea Talks (with Julia Strand).

PREVIOUS RESEARCH EXPERIENCE

- **Lab Manager**, *Spring 2017–Summer 2018*
 - Carleton College Perception Lab (Julia F. Strand)
 - Worked independently on a Registered Report assessing the attentional costs associated with recognizing incongruent (i.e., McGurk) and congruent audiovisual speech (*Summer 2017*)
 - Co-authored several manuscripts with the Carleton Perception Lab
 - Contributed to data analysis for all studies conducted in the lab, including writing and reviewing code (R Studio)
- **Research Assistant**, *Spring 2014–Spring 2017*
 - Carleton College Perception Lab (Julia F. Strand)
 - Designed and executed experiments on topics including: the role of grammatical context in spoken word recognition, audiovisual integration, listening effort, individual difference predictors of listening effort (cognitive abilities and personality), contributions of an abstract visual stimulus to speech perception
 - Contributed to data analysis for all co-authored experiments and unpublished projects in the Carleton Perception Lab
- **Research Assistant**, *Summer 2014*
 - Swarthmore College Visual Perception Lab (Frank H. Durgin)
- **Research Assistant**, *Summer 2012*
 - University of Pennsylvania (Marisa S. Bartolomei)

POSTER PRESENTATIONS (presenters marked with an asterisk)

- ***Brown, V.**, & *Strand, J. (November 2019). About face: A Seeing the talking improves spoken word recognition but increases listening effort. Presented at the 60th Annual Meeting of the Psychonomic Society, Montreal, Québec, Canada
- *Ray, L., *Dillman-Hasso, N., **Brown, V. A.**, Hedayati, M., Zanger, A., Mayn, S., & Strand, J. F. (2019). What accounts for individual variability in susceptibility to the McGurk effect? Presented at the 17th Annual Auditory Perception, Cognition, & Action Meeting, Montreal, Québec, Canada
- *Strand, J., ***Brown, V.**, & Barbour, D. (November 2018). Talking points: A modulating circle reduces listening effort without improving speech recognition. Presented at the 59th Annual Meeting of the Psychonomic Society, New Orleans, LA.
- ***Brown, V.**, Hedayati, M., Zanger, A., Mayn, S., Ray, L., Dillman-Hasso, N., & *Strand, J. (November 2018). Presented at the 16th Annual Auditory Perception, Cognition, and Action Meeting, New Orleans, LA.
- Strand, J., ***Brown, V.**, Merchant, M., Brown, H., & Smith, J. (November 2017). Measuring listening effort: Convergent validity, sensitivity, and links with cognitive and personality measures. Presented at the 15th Annual Auditory Perception, Cognition, and Action Meeting, Vancouver, BC.
- *Strand, J., ***Brown, V.**, & Brown, H. (November 2016). Keep listening: Grammatical context reduces but does not eliminate activation of unexpected words. Presented at the 57th Annual Meeting of the Psychonomic Society, Boston, MA.
- ***Brown, V.**, Brown, H., *Smith, J., *Hedayati, M., Zanger, A., *Wennberg, J., & Strand, J. (April 2017). Contributions of an abstract visual stimulus to speech

recognition and listening effort. Presented at the annual Minnesota Undergraduate Psychology Conference, Northfield, MN.

- ***Brown, V., & Strand, J.** (October 2016). Grammatical context reduces but does not eliminate activation of unexpected words. Presented at the Carleton College Research Symposium & Celebration, Northfield, MN.

ACADEMIC AWARDS

- **Received the Arthur D. Behrendt Scholarship, *Fall 2019***
 - Part of the Washington University Scholars in Arts & Sciences Program
 - Awarded annually to an outstanding second year Ph.D. student
 - Nomination is determined by the Director of Graduate Studies in the department of Psychological & Brain Sciences
- **Received distinction on undergraduate senior thesis: “More than meets the ear: Contributions of vision to spoken word recognition”**
 - Nomination for distinction is determined by a Carleton faculty member, and the decision is made by a panel of outside faculty
- **Graduated with distinction** in the Carleton College Psychology Department
- **Received the John K. Bare Prize in Psychology**
 - Awarded annually to “a graduating senior who has demonstrated outstanding achievement in the study of psychology.”
- **Received the Scott Tyler Bergner Prize** for the Carleton College Class of 2017
 - This prize is awarded each year to “a member of the senior class who has an outstanding academic record and who has demonstrated excellence of thought and character.”

PROFESSIONAL EXPERIENCE

- **Ad hoc reviewer**, Ear & Hearing
- **Ad hoc reviewer**, Journal of the Acoustical Society of America Express Letters
- **Principles of Psychology (PSYC110) Teaching Assistant, *Winter 2016–Winter 2017***
 - Carleton College (Lawrence J. Wichlinski, Julia F. Strand, Adam L. Putnam)
 - Attended all classes, created handouts, met with students individually, and held hour-long sessions two nights a week for three terms
- **Carleton College Psychology Office Assistant, *Fall 2016–Spring 2017***
 - Completed administrative tasks, ran statistical analyses, and identified research articles for professors in the Psychology Department
- **Carleton College Instrumental Library Assistant, *Fall 2014–Spring 2016***
 - Completed administrative tasks for the Music Department and assisted students who had questions regarding music at Carleton
- **Assistant Distiller and Bartender at Loon Liquors, *April 2017–July 2018***
 - Participated in distillation, production, and service at Loon Liquors, an organic craft microdistillery located in Northfield, MN

SKILLS

- **Statistical programming and computer proficiency**
 - R, SuperLab, Microsoft Office, Paperpile, Mendeley, Adobe Audition, Audacity, Final Cut Pro, iMovie

- **Statistics training**
 - Experience using R to perform regression analyses (ordinary, multiple, logistic), ANOVA, likelihood ratio testing, linear mixed effects modeling, and data cleanup
 - Relevant statistics courses: Hierarchical Linear Modeling, Selected Topics in Design and Statistics, Advanced Statistical Modeling, Probability, Statistical Inference, Statistical Consulting, Linear Algebra, Multivariable Calculus, Research Design and Methods, Data Analysis in Psychology, Applied Regression Analysis
- **Cellist, music orchestrator, and teacher**
 - Studied under Mara Parker, *2003–2013*
 - Studied under Tom Rosenberg (Carleton College), *2013–2017*
 - Taught beginning cello (individually and in a group setting), *2013–2017*
 - Orchestrated music in various styles, and was hired to perform in weddings and pit orchestras, *2011–2017*

SOCIETY MEMBERSHIPS

- **Society for the Improvement of Psychological Science (SIPS)**
- **Psychonomic Society**
- **American Psychological Society**
- **Phi Beta Kappa Society**
- **Sigma Xi**, The Scientific Research Honor Society