

THEA KNOWLES

This document details my accomplishments from the time I was hired at UB (Fall 2019) until now
(March 29, 2021)

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📁 Faculty Webpage
🌐 CASA Lab Website

FUNDING

Parkinson Voice Project SPEAK OUT!® and LOUD Crowd® Grant 2020 - 2021

- Value: **\$1500** plus resources to support continuation of the SPEAK OUT!® and LOUD Crowd® programs at the University at Buffalo Speech, Language, and Hearing Clinic.
- Resources include: Parkinson Voice Project consultation, access to graduate student training, clinic resources (workbooks)
- Role: Lead Speech-language pathologist
- **Note that this is a clinical grant**

Pending: Research

- ASH Foundation New Investigators Grant (due April 15, 2021)
- ASHA Advancing Academic Research Careers (AARC) mentored research grant (due April 30, 2021)
- NIH R21 New Investigators: Special Call for research related to COVID-19; **Note: Currently collecting data in anticipation for this grant**

PUBLICATIONS

Journal Articles

The first two articles on this list are articles that include new analyses I have worked on since starting at UB (they both also include data and analyses that I started before).

1. **Knowles, T.**, Adams, S. G., & Jog, M. (In press). Variations in scaled speech intelligibility along a wide range of speech rate modifications in Parkinson's disease. *Journal of Speech, Language, and Hearing Research*.
2. **Knowles, T.**, Adams, S. G., Page, A., Cushnie-Sparrow, D., & Jog, M. (2020). A comparison of speech amplification and personal communication devices for hypophonia. *Journal of Speech, Language, and Hearing Research*, 63(8), 2695-2712. DOI: 10.1044/2020_JSLHR-20-00085
3. Adams, S., Kumar, N., Rizek, P., Hong, A., Zhang, J., Abeyesekera, A., Mancinelli, C., **Knowles, T.**, & Jog, M. (2020). Efficacy and acceptance of a Lombard-response device for hypophonia in Parkinson's disease. *The Canadian Journal of Neurological Sciences*, 1-8. DOI: 10.1017/cjn.2020.90
4. Sonderegger, M., Stuart-Smith, J., **Knowles, T.**, Macdonald, R., & Rathcke, T. (2020). Structured heterogeneity in Scottish stops over the twentieth century. *Language*, 96(1), 94-125. DOI: 10.1353/lan.2020.0003
5. Abeyesekera, A., Adams, S., Mancinelli, C., **Knowles, T.**, Gilmore, G., Delrobaei, M., Jog, M. (2019). Effects of deep brain stimulation of the subthalamic nucleus settings on voice quality, intensity, and prosody in Parkinson's disease: preliminary evidence for speech optimization. *Canadian Journal of Neurological Sciences*, 46(3), 287-294. DOI: 10.1017/cjn.2019.16

MANUSCRIPTS

Knowles, T., Adams, S. G., & Jog, M. (Submitted). Speech rate mediated vowel and stop distinctiveness in Parkinson's disease. Submitted to *Journal of Speech, Language, and Hearing Research*.

Avenia, K., Ahmed, J., Borovsky, A., McRae, K., Jenkins, M., Sprengel, K., Fraser, J.A., Orange, J.B., **Knowles, T.**, & Roberts, A. (Submitted). Predictive language comprehension in Parkinson's disease.

Knowles, T., Adams, S.G., & Jog, M. (In prep). Voice acoustics along a modified speech rate continuum in Parkinson's disease.

Knowles, T., Clayards M. (In prep). Effects of prominence on stop consonant contrasts.

CODE

Keshet, J., Sonderegger, M., & **Knowles, T.** (2014). AutoVOT, v. 0.93.

- A software package for automatic measurement of voice onset time (VOT), using the algorithm described in Sonderegger & Keshet (2012).
- I maintain the README and the Praat plugin and released a new version in August 2020

PRESENTATIONS

Invited presentations

3. **Knowles, T.** Speech amplification devices for hypophonia. SLP625: Special Topics. Buffalo State University of New York, Buffalo, NY. 3/2021.
2. **Knowles, T.** So you're thinking about graduate school for communication disorders? LING 371: Syntax 1. McGill University, Montreal, QC. 12/2020.
1. **Knowles, T.** Speech acoustic adjustments along a speech rate continuum in Parkinson's disease. Rehabilitation Science Seminar. University at Buffalo, Buffalo, NY. 3/2020.

Refereed conference presentations

3. **Knowles, T.**, Adams, S., & Jog, M. Speech intelligibility along a modified speech rate continuum in Parkinson's disease. International Clinical Linguistics & Phonetics Association. Forthcoming; postponed to 09/2021 due to COVID-19. *International poster presentation*.
2. **Knowles, T.**, Adams, S., & Jog, M. VOT voicing distinction is robust along a speech rate continuum in dysarthria. Laboratory Phonology, Virtual, 07/2020. *International poster presentation*.
1. **Knowles, T.**, Adams, S., & Jog, M. Acoustic changes along a modified speech rate continuum in Parkinson's disease. Motor Speech Conference. Santa Barbara, CA. 02/2020. *International poster presentation*

TEACHING

Instructor

Note that I am also preparing a new course to be taught in Spring 2022

Motor Speech Disorders (CDS640)

Fall 2020

University at Buffalo, Department of Communicative Disorders & Sciences

Anatomy and Physiology of the Speech Mechanism (CDS288)

Fall 2019, 2020

University at Buffalo, Department of Communicative Disorders & Sciences

Workshops & tutorials

Note: we did not discuss these informal workshops/tutorials in our meeting.

R-Ladies Presentations

March 9 2021

R-Ladies, Coventry UK Chapter

- March 9, 2021: “Intro to RMarkdown”: R-Ladies Coventry UK Chapter
- January 17, 2020: “RMarkdown and Bookdown for academic writing”: R-Ladies London ON Chapter

Praat Scripting Workshops

Spring 2021

Department of Communicative Disorders & Sciences

University at Buffalo

- Regular workshops (every 3 weeks) to introduce UB students from CDS, Linguistics, and Cognitive Science to programming in the Praat acoustic analysis software.
- I organize the workshops and led the first one. Some of the students in my lab are required to learn these skills and we build on them at our biweekly lab meetings as well.

Coding for Speech

Spring 2020

Department of Communicative Disorders & Sciences

University at Buffalo

- I led weekly workshops on using tools to analyze speech data, given to students and faculty at the University at Buffalo.
- Terminated after 2 sessions due to COVID19 pandemic

ACADEMIC SERVICE & LEADERSHIP

Advising

MA Thesis Committees

University at Buffalo, Department of Communicative Disorders & Sciences

- Francesca D'Alessandro. *Identifying the Impact of Vocal Hygienic Advice on the Voice of University Lecturers*. In progress.

Other

University at Buffalo, Department of Communicative Disorders & Sciences

- Antara Satchidanand: Second PhD project proposal committee
- Note: There is one MA student in my lab considering doing a thesis with me in 2021-2023

Service to the Profession

Conference Planning

- America Speech-Language and Hearing Association Convention: Speech and Language Science Subcommittee (2021)

Journal Article Reviews

- Total: 6
- American Journal of Speech Language Pathology; 2020 (3)
- Journal of Speech, Language, and Hearing Research; 2020 (2)
- International Journal of Language and Communication Disorders; 2020 (1)

Service to the Department

UB Communicative Disorders & Sciences

- Member of Coalition for Anti-Racism & Equity; Summer 2020 - Present
- Member of search committee for Clinical Assistant/Associate Professor; Fall 2020
- Leader of subcommittee departmental SWOT analysis; Winter 2020
- Member of search committee for Assistant Professor; Fall 2019

PROFESSIONAL DEVELOPMENT

Pathways Program Attendee

June 2020

American Speech-Language-Hearing Association

Mentorship program (virtual)

- Mentorship program for early career researchers in communication sciences and disorders
- "It is intended as an initial step to enhance the training, retention, and funding success of clinical scientists in CSD, with the ultimate goal of advancing the evidence base of the discipline."

New Faculty Academy Attendee (Scholarly Writing)

Fall 2019

University at Buffalo

Buffalo, NY

- Weekly workshops for new faculty to improve elements of their scholarly research