

# Elaine Kearney, PhD

CONJOINT RESEARCH FELLOW

University of Queensland and Princess Alexandra Hospital

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*Conjoint Research Fellow building research capacity in speech pathology at the University of Queensland and Princess Alexandra Hospital. My background is as a speech pathologist and speech scientist, and my research focuses on the brain mechanisms underlying speech production in individuals with and without motor speech disorders. I conduct both basic science and clinical research that leverages my expertise in behavioral, computational modeling, and neuroimaging methods. The long-term aim of my research program is to expand the evidence-based treatment options available to those with speech disorders.*

## Education

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### PhD in Speech-Language Pathology

Toronto, Canada

SPEECH PRODUCTION LABORATORY, REHABILITATION SCIENCES INSTITUTE, UNIVERSITY OF TORONTO

January 2013–June 2018

- Thesis: The speech movement disorder and its rehabilitation in Parkinson's disease using augmented visual feedback
- Committee: Drs. Yana Yunusova (Advisor), Luc de Nil, and Luc Tremblay

### BSc in Speech and Language Therapy

Cork, Ireland

DEPT. OF SPEECH AND HEARING SCIENCES, UNIVERSITY COLLEGE CORK

September 2007–June 2011

- Thesis: Tongue-palate contact during selected vowels in typical and disordered articulation
- Advisor: Dr. Alice Lee

## Research Employment

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### Conjoint Research Fellow in Speech Pathology

Brisbane, Australia

UNIVERSITY OF QUEENSLAND AND PRINCESS ALEXANDRA HOSPITAL

May 2024–Present

### Postdoctoral Research Fellow

Brisbane, Australia

LANGUAGE, COGNITION AND BRAIN SCIENCES LABORATORY, QUEENSLAND UNIVERSITY OF TECHNOLOGY (QUT)

April 2022–May 2024

- Projects: A prospective study of language impairment and recovery following surgery for brain tumours; A more sound approach to the neurobiology of language
- Advisors: Drs. Greig de Zubizaray and Katie L. McMahon

### Consultant Speech Scientist

Brisbane, Australia

INDEPENDENT CONTRACTOR FOR BOSTON UNIVERSITY

April 2022–December 2022

### Postdoctoral Research Associate

Boston, MA, USA

SPEECH NEUROSCIENCE LABORATORY, BOSTON UNIVERSITY

January 2018–January 2022

- Projects: Neural modeling and imaging of speech; Voice and speech sensorimotor control in Parkinson's disease
- Advisors: Drs. Frank H. Guenther and Jason A. Tourville

### Research Assistant

Toronto, Canada

VOCAL TRACT VISUALIZATION LABORATORY, TORONTO REHABILITATION INSTITUTE

January 2013–December 2017

- Project: Visual feedback systems in speech rehabilitation
- Advisor: Dr. Yana Yunusova

### Research Assistant

Toronto, Canada

SPEECH AND STUTTERING INSTITUTE

June 2012–December 2012

- Project: Motor speech treatment protocol for developmental motor speech disorders
- Advisor: Dr. Aravind Namasivayam

## Research Funding

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### Early Career Researcher Ideas Scheme (CI-A)

QUT

INVESTIGATING THE NEURAL BASIS OF THE SPEECH DISORDER IN HUNTINGTON'S DISEASE

January–December 2024

- \$21,318

## Study, Education and Research Trust Account Project Grant (CI-B)

SPEAKING CLEARLY TOGETHER: A NOVEL SPEECH TREATMENT PROGRAM ENHANCING COMMUNICATION FOR INDIVIDUALS WITH HUNTINGTON'S DISEASE

- \$65,103.98

## Long Leave Research Momentum Scheme (CI-A)

FUNDING TO SUPPORT DATA COLLECTION AND ANALYSIS WHILE ON AND RETURNING FROM LEAVE

- \$5,623.75

Royal Brisbane and Women's  
Hospital

January-December 2024

QUT

August 2023-June 2024

## Research Awards and Honours

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### ASHA Research Mentoring Network: Lessons for Success

AMERICAN SPEECH-LANGUAGE-HEARING ASSOCIATION

- Attendance at 3-day virtual workshop

Maryland, USA

April 2021

### Professional Development and Postdoctoral Affairs Travel Award

BOSTON UNIVERSITY

- 500 USD

Boston, MA, USA

August 2019

### ASHA Research Mentoring Network: Pathways Program

AMERICAN SPEECH-LANGUAGE-HEARING ASSOCIATION

- Travel, accommodation and food costs for duration of workshop

Maryland, USA

June 2019

### Polatajko-Howell Student Conference Presentation Fund

UNIVERSITY OF TORONTO

- 300 CAD

Toronto, Canada

June 2017

### Rehabilitation Sciences Institute Peer Mentorship Award

UNIVERSITY OF TORONTO

- 100 CAD

Toronto, Canada

May 2017

### Rehabilitation Sciences Institute Presentation Award

UNIVERSITY OF TORONTO

- 300 CAD

Toronto, Canada

May 2017

### Office of Research Trainees Conference Travel Award

UNIVERSITY HEALTH NETWORK

- 500 CAD

Toronto, Canada

March 2016

### Graduate Scholarship Prize

TORONTO REHABILITATION INSTITUTE - UNIVERSITY HEALTH NETWORK

- 1000 CAD

Toronto, Canada

November 2015

### School of Graduate Studies Conference Grant

UNIVERSITY OF TORONTO

- 850 CAD

Toronto, Canada

November 2014

### Speech-Language Pathology Travel Award

UNIVERSITY OF TORONTO

- 425 CAD

Toronto, Canada

March 2014

### Undergraduate College Scholarship

UNIVERSITY COLLEGE CORK

- 1000 EUR

Cork, Ireland

May 2010

## Professional Affiliations

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### International Myositis Assessment & Clinical Studies Group (IMACS)

MEMBER

March 2021-Present

### Australasian Speech Science and Technology Association

MEMBER

October 2020-Present

## American Speech-Language-Hearing Association

INTERNATIONAL AFFILIATE

October 2018–Present

## Society for the Neurobiology of Language

POSTDOCTORAL MEMBER

April 2018–Present

## National Student Speech Language Hearing Association

MEMBER

November 2014–November 2015

## Irish Association of Speech and Language Therapists

NEW GRADUATE MEMBER

June 2011–December 2013

## Service

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### Manuscript Reviews

GUEST ASSOCIATE EDITOR

2023–2024

- Frontiers in Human Neuroscience

HANDLING EDITOR

2022–2023

- Journal of Speech, Language, and Hearing Research (1)
- American Journal of Speech-Language Pathology (1)

REVIEWER

2018–Present

- Journal of Speech, Language, and Hearing Research (16)
- American Journal of Speech-Language Pathology (9)
- Neurorehabilitation and Neural Repair (3)
- Journal of the Acoustical Society of America (1)
- Cerebral Cortex (2)
- Journal of Communication Disorders (1)
- Journal of Voice (1)
- Clinical Linguistics & Phonetics (1)
- International Journal of Speech-Language Pathology (2)
- Infant and Child Development (1)
- Language and Speech (1)
- Schizophrenia (1)
- PLOS One (1)

### Conference Reviews

REVIEWER

2019–Present

- American Speech-Language-Hearing Association Convention 2023
- International Congress of Phonetic Sciences 2023
- American Speech-Language-Hearing Association Convention 2022
- Conference on Motor Speech 2022
- International Clinical Phonetics and Linguistics Association Symposium 2020
- Boston Speech Motor Control Symposium 2019

### Grant Reviews

REVIEWER

2019–Present

- Australian Research Council Future Fellowships 2024
- LVST Small Student Grant 2019, 2020

### Conference Organization

ORGANIZING COMMITTEE MEMBER

2018–Present

- American Speech-Language-Hearing Association Convention 2023 (Motor Speech Disorders Across the Lifespan Topic)
- American Speech-Language-Hearing Association Convention 2022 (Motor Speech Disorders and Other Speech Sound Disorders in Adults Topic)
- Boston Speech Motor Control Symposium 2019

### CSDisseminate

<https://CSDisseminate.com>

CO-FOUNDER, COLLABORATOR

July 2020–Present

- A grassroots initiative aimed at promoting the culture of self-archiving legal versions of research manuscripts in the field of communication sciences and disorders

### OpenCSD

<https://www.open-csd.com/>

JOURNAL CLUB LEADER

January–Dec-23

- A grassroots initiative aspiring to educate others and foster the use of open science practices within the field of communication sciences and disorders

## Publications

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**Statistical relationships between surface form and sensory meanings of English words influence lexical processing**

DE ZUBICARAY, G., KEARNEY, E., GUENTHER, F. H., MCMAHON, K. L., &amp; ARCIULI, J.

• DOI: 10.1037/xhp0001209

*J. Exp. Psychol. Hum. Percept. Perform.*  
2024**Paucity of bulbar function measures in IBM trials: A commentary on Roy et al Current status of clinical outcome measures in inclusion body myositis: a systematized review**

GARAND, K. L., MALANDRAKI, G. A., STIPANCIC, K. L., KEARNEY, E., ROY, B., &amp; ALFANO, L. N.

• DOI: 10.55563/clinexprheumatol/x66elf

*Clin. Exp. Rheumatol.*  
2023**Non-arbitrary mappings between size and sound of English words: Form typicality effects during lexical access and memory**

DE ZUBICARAY, G., ARCIULI, J., GUENTHER, F. H., MCMAHON, K. L., &amp; KEARNEY, E.

• DOI: 10.1177/17470218231184940

*QJEP*  
2023**Emotion from the sound of a word: Statistical relationships between surface form and valence of English words influence lexical access and memory**

DE ZUBICARAY, G., MCMAHON, K. L., ARCIULI, J., KEARNEY, E., &amp; GUENTHER, F. H.

• DOI: 10.1037/xge0001477

*J. Exp. Psychol. Gen.*  
2023**Relationships between reading performance and regional spontaneous brain activity following surgical removal of primary left-hemisphere tumors: A resting-state fMRI study**

KEARNEY, E., BROWNSSETT, S. L. E., COPLAND, D. A., DRUMMOND, K., JEFFREE, R. L., OLSON, S., MURTON, E., ONG, B.,

ROBINSON, G. A., TOLKACHEVA, V., MCMAHON, K. L., &amp; DE ZUBICARAY, G. I.

• DOI: 10.1016/j.neuropsychologia.2023.108631

*Neuropsychologia*  
2023**Do not cut off your tail: A mega-analysis of responses to auditory perturbation experiments**

MILLER, H., KEARNEY, E., NIETO-CASTANON, A., FALSINI, R., ABUR, D., ACOSTA, A., CHAO, S-C., DAHL, K., FRANKEN, M., HELLER

MURRAY, E. S., MOLLAEI, F., NIZIOLEK, C. A., PARRELL, B., PERRACHIONE, T., SMITH, D., STEPP, C. E., TOMASSI, N., &amp;

GUENTHER, F. H.

• DOI: 10.1044/2023\_JSLHR-23-00315

*JSLHR*  
2023**Open science practices in communication sciences and disorders: A survey**

EL AMIN, M., BORDERS, J. C., LONG, H., KELLER, M. A., &amp; KEARNEY, E.

• DOI: 10.1044/2022\_JSLHR-22-00062

*JSLHR*  
2022**Quantitatively characterizing reflexive responses to pitch perturbations**

KEARNEY, E., NIETO-CASTANON, A., FALSINI, R., DALIRI, A., HELLER MURRAY E. S., SMITH, D. J., &amp; GUENTHER, F. H.

• DOI: 10.3389/fnhum.2022.929687

*Front. Hum. Neurosci.*  
2022**Brain lesions associated with communication-related quality of life following surgical removal of primary left-hemisphere tumours**

KEARNEY, E., BROWNSSETT, S. L. E., COPLAND, D. A., DRUMMOND, K., JEFFREE, R. L., OLSON, S., MURTON, E., ONG, B.,

ROBINSON, G. A., TOLKACHEVA, V., MCMAHON, K. L., &amp; DE ZUBICARAY, G. I.

• DOI: 10.1080/02687038.2022.2145844

*Aphasiology*  
2022**On the roles of form systematicity and sensorimotor effects in language processing**

DE ZUBICARAY, G., ARCIULI, J., KEARNEY, E., GUENTHER, F. H., &amp; MCMAHON, K. L.

• DOI: 10.1037/xlm0001201

*J. Exp. Psychol. Learn. Mem. Cogn.*  
2022**Contributions of auditory and somatosensory feedback to vocal motor control**

SMITH, D. J., STEPP, C. E., GUENTHER, F. H., &amp; KEARNEY, E.

• DOI: 10.1044/2020\_JSLHR-19-00296

*JSLHR*  
2020**A simple 3-parameter model for examining adaptation in speech and voice production**

KEARNEY, E., NIETO-CASTANON, A., WEERATHUNGE, H. R., FALSINI, R., DALIRI, A., ABUR, D., BALLARD, K. J., CHANG, S-E.,

CHAO, S-C., HELLER MURRAY, E. S., SCOTT, T. L., &amp; GUENTHER, F. H.

• DOI: 10.3389/fpsyg.2019.02995

*Front. Psychol.*  
2020**Articulating: The neural mechanisms of speech production**

KEARNEY, E., &amp; GUENTHER, F. H.

• DOI:10.1080/23273798.2019.1589541

*Lang. Cogn. Neurosci.*  
2019

- Towards movement-based outcome measures for apraxia of speech: A systematic review** *Aphasiology*  
 BAILEY, K., KEARNEY, E., ROBERTS, E., & YUNUSOVA, Y. 2019  
 • DOI: 10.1080/02687038.2018.1510111
- Electromagnetic articulography (EMA) for real-time feedback application: Computational techniques** *CMBBE*  
 HAWORTH, B., KEARNEY, E., FALOUTSOS, P., BALJKO, M., & YUNUSOVA, Y. 2019  
 • DOI:10.1080/21681163.2018.1434423
- Augmented visual feedback-aided interventions in motor rehabilitation in Parkinson's disease: A systematic review** *Disabil. Rehabil.*  
 KEARNEY, E., SHELLIKERI, S., MARTINO, R., & YUNUSOVA, Y. 2019  
 • DOI:10.1080/09638288.2017.1419292
- Treating speech-movement hypokinesia in Parkinson's disease: Does movement size matter and to what extent?** *JSLHR*  
 KEARNEY, E., HAWORTH, M. B., SCHOLL, J., FALOUTSOS, P., BALJKO, M., & YUNUSOVA, Y. 2018  
 • DOI:10.1044/2018\_JSLHR-S-17-0439
- Sentence-level movements in Parkinson's disease: Loud, clear, and slow speech** *JSLHR*  
 KEARNEY, E., GILES, R., HAWORTH, M. B., FALOUTSOS, P., BALJKO, M., & YUNUSOVA, Y. 2017  
 • DOI: 10.1044/2017\_JSLHR-S-17-0075
- Game-based augmented visual feedback for enlarging speech movements in Parkinson's disease** *JSLHR*  
 YUNUSOVA, Y., KEARNEY, E., KULKARNI, M., HAWORTH, M. B., BALJKO, M., & FALOUTSOS, P. 2017  
 • DOI:10.1044/2017\_JSLHR-S-16-0233
- Outcome measures in developmental speech sound disorders with a motor basis** *Curr. Dev. Disord. Rep.*  
 KEARNEY, E., GRANATA, F., YUNUSOVA, Y., VAN LIESHOUT, P., HAYDEN, D., & NAMASIVAYAM, A. 2015  
 • DOI: 10.1007/s40474-015-0058-2
- Motor Speech Treatment Protocol for developmental motor speech disorders** *Dev. Neurorehabil.*  
 NAMASIVAYAM, A., PUKONEN, M., HARD, J., JAHNKE, R., KEARNEY, E., KROLL, R., & VAN LIESHOUT, P. 2015  
 • DOI: 10.3109/17518423.2013.832431
- Tongue-palate contact during selected vowels in children with speech sound disorders** *IJSLP*  
 LEE, A., GIBBON, F. E., KEARNEY, E., & MURPHY, D. 2014  
 • DOI: 10.3109/17549507.2013.862857

## PROCEEDINGS

- Electromagnetic articulography in the development of "serious games" for speech rehabilitation** *Proceedings from PMHA 2014*  
 HAWORTH, M. B., KEARNEY, E., BALJKO, M., FALOUTSOS, P., & YUNUSOVA, Y. 2014

## EDITORIALS

- Enhancing accessibility of communication sciences and disorders research: Open access and self-archiving** *Audiology Today*  
 GAETA, L., PFEIFFER, D., & KEARNEY, E. 2022

## Presentations

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### INTERNATIONAL

#### Invited

- DIVA explained: Applying models of speech production to clinical populations (oral presentation)** *New Orleans, LA, USA*  
 KEARNEY, E., MILLER, H., CHANG, S-E., & GUENTHER, F. H. November 2022  
 • American Speech-Language-Hearing Association Convention

<b>Estimating feedback control during voice production: Experimental and modelling findings (oral presentation)</b>	Toronto, Canada
KEARNEY, E.	June 2022
• Connect Laboratory Research Seminar, Bloorview Research Institute	
<b>Sensorimotor control of speech and voice production: Insights from experimental and modeling studies (oral presentation)</b>	Tempe, AZ, USA
KEARNEY, E.	March 2021
• Speech and Hearing Science Research Colloquium, Arizona State University	
<b>The speech movement disorder in Parkinson's disease and its rehabilitation using augmented visual feedback (oral presentation)</b>	Boston, MA, USA
KEARNEY, E., HAWORTH, M. B., FALOUTSOS, P., BALJKO, M., & YUNUSOVA, Y.	September 2017
• Boston Speech Motor Control Working Group, Boston University	
<b>The speech movement disorder and its rehabilitation in Parkinson's disease using augmented visual feedback (oral presentation)</b>	Montreal, Canada
KEARNEY, E., HAWORTH, M. B., FALOUTSOS, P., BALJKO, M., & YUNUSOVA, Y.	May 2017
• Ecole d'Orthophonie et d'Audiologie, Université de Montréal	
<b>Development of augmented feedback targets for speech rehabilitation in Parkinson's disease (oral presentation)</b>	Cork, Ireland
KEARNEY, E., HAWORTH, M. B., FALOUTSOS, P., BALJKO, M., & YUNUSOVA, Y.	March 2015
• Dept. of Speech and Hearing Sciences, University College Cork	
<b>Conference</b>	
<b>Neural contributions to the speech disorder in Huntington's disease (poster)</b>	Brisbane, Australia
KEARNEY, E., DONOHUE, M., MCMAHON, K. L., & DE ZUBICARAY, G. I.	October 2024
• 16th Annual Meeting of the Society for Neurobiology of Language	
<b>Auditory targets for sensory feedback control of speech change over the course of the day (poster)</b>	Autrans, France
GUENTHER, F. H., ACOSTA, A., KEARNEY, E.	May 2024
• 13th International Seminar on Speech Production	
<b>Somatosensory feedback control of voice and articulation in Parkinson's disease (oral presentation)</b>	San Diego, CA, USA
MANES, J. L., TOURVILLE, J. A., KEARNEY, E., NIETO-CASTANON, A., & GUENTHER, F. H.	February 2024
• 22nd Biennial Conference on Motor Speech	
<b>A mega-analysis of the distribution of responses to auditory perturbation experiments (oral presentation)</b>	San Diego, CA, USA
MILLER, H., KEARNEY, E., NIETO-CASTANON, A., & GUENTHER, F. H.	February 2024
• 22nd Biennial Conference on Motor Speech	
<b>A qualitative exploration of open science practices in communication sciences and disorders (poster)</b>	Boston, MA, USA
THOMPSON, A., PFEIFFER, D., EL AMIN, M., CIULIO, B., FORD, A., HIRSCH, M., KEARNEY, E., & RICCARDI, J.	November 2023
• American Speech-Language-Hearing Association Convention	
<b>Self-archiving 101: Benefits for clinicians and researchers (oral presentation)</b>	Boston, MA, USA
DROWN, L., KEARNEY, E., EL AMIN, M., & LONG, H.	November 2023
• American Speech-Language-Hearing Association Convention	
<b>Collaborating on code in communication sciences and disorders: A hands-on tutorial (oral presentation)</b>	Boston, MA, USA
KEARNEY, E., & HIRSCH, M.	November 2023
• American Speech-Language-Hearing Association Convention	
<b>Auditory perturbation-derived sensory profiles of children with and without residual distortions of American English /r/ (oral presentation)</b>	Boston, MA, USA
EADS, A., KEARNEY, E., KODA, A., MEDINA, I., HITCHCOCK, E., SHILLER, D., GUENTHER, F. H., & McALLISTER, T.	November 2023
• American Speech-Language-Hearing Association Convention	

<p><b>Non-arbitrary relationships between sensory meanings and phonological properties of English words (poster)</b></p> <p>DE ZUBICARAY, G. I., KEARNEY, E., GUENTHER, F. H., MCMAHON, K. L., &amp; ARCIULI, J.</p> <ul style="list-style-type: none"> <li>• 15th Annual Meeting of the Society for Neurobiology of Language</li> </ul>	<p>Marseille, France</p> <p>October 2023</p>
<p><b>Lesion-symptom mapping of pre-surgical language deficits in patients with left-hemisphere primary brain tumours (poster)</b></p> <p>DE ZUBICARAY, G. I., KEARNEY, E., BROWNSSETT, S. L. E., DRUMMOND, K. J., MURTON, E., OLSON, S., ONG, B., COPLAND, D. A., ROBINSON, G. A., TOLKACHEVA, V., &amp; MCMAHON, K. L.</p> <ul style="list-style-type: none"> <li>• 15th Annual Meeting of the Society for Neurobiology of Language</li> </ul>	<p>Marseille, France</p> <p>October 2023</p>
<p><b>Auditory acuity and response to altered auditory feedback in children with and without residual speech sound disorder (poster)</b></p> <p>EADS, A., KEARNEY, E., KODA, A., MEDINA, I., HITCHCOCK, E., SHILLER, D., GUENTHER, F. H., &amp; McALLISTER, T.</p> <ul style="list-style-type: none"> <li>• 20th International Congress of Phonetic Sciences</li> </ul>	<p>Prague, Czech Republic</p> <p>August 2023</p>
<p><b>Auditory acuity and SimpleDIVA modeling of response to altered auditory feedback in children with and without residual speech sound disorder (oral presentation)</b></p> <p>EADS, A., KEARNEY, E., KODA, A., MEDINA, I., HITCHCOCK, E., SHILLER, D., GUENTHER, F. H., &amp; McALLISTER, T.</p> <ul style="list-style-type: none"> <li>• Boston Speech Motor Control Symposium</li> </ul>	<p>Boston, MA, USA</p> <p>June 2023</p>
<p><b>Pitch and formant targets vary across days as seen in reflexive responses to auditory perturbations (poster)</b></p> <p>ACOSTA, A., KEARNEY, E., NIETO-CASTANON, A., &amp; GUENTHER, F. H.</p> <ul style="list-style-type: none"> <li>• Boston Speech Motor Control Symposium</li> </ul>	<p>Boston, MA, USA</p> <p>June 2023</p>
<p><b>Cortical responses to jaw and larynx perturbations during speech production in Parkinson's disease: A preliminary fMRI analysis (poster)</b></p> <p>MANES, J. L., TOURVILLE, J. A., KEARNEY, E., NIETO-CASTANON, A., HOLLAND, B. G., KIM, J. S., &amp; GUENTHER, F. H.</p> <ul style="list-style-type: none"> <li>• SFN Neuroscience 2022</li> </ul>	<p>San Diego, CA, USA</p> <p>November 2022</p>
<p><b>Brain lesions associated with communication-related quality of life following surgical removal of primary left-hemisphere tumors (poster)</b></p> <p>KEARNEY, E., BROWNSSETT, S. L. E., COPLAND, D. A., DRUMMOND, K. J., JEFFREE, R. L., OLSON, S., MURTON, E., ONG, B., ROBINSON, G. A., TOLKACHEVA, V., MCMAHON, K. L., &amp; DE ZUBICARAY, G. I.</p> <ul style="list-style-type: none"> <li>• 14th Annual Meeting of the Society for Neurobiology of Language</li> </ul>	<p>Philadelphia, PA, USA</p> <p>October 2022</p>
<p><b>Open science practices in communication sciences and disorders (oral presentation)</b></p> <p>EL AMIN, M., LONG, H., L., BORDERS, J. C., KELLER, M. A., &amp; KEARNEY, E.</p> <ul style="list-style-type: none"> <li>• American Speech-Language-Hearing Association Convention</li> </ul>	<p>Washington, DC, USA</p> <p>November 2021</p>
<p><b>Converging neural representations of the speech subsystems: A meta-analysis (poster)</b></p> <p>KEARNEY, E., JIANG, L., &amp; GUENTHER, F. H.</p> <ul style="list-style-type: none"> <li>• Boston Speech Motor Control Symposium</li> </ul>	<p>Virtual</p> <p>June 2021</p>
<p><b>Quantitative modeling of reflexive responses to auditory perturbations (oral presentation)</b></p> <p>GUENTHER, F., KEARNEY, E., HELLER-MURRAY, E. S., &amp; NIETO-CASTANON, A.</p> <ul style="list-style-type: none"> <li>• Neural Bases of Speech Production Symposium</li> </ul>	<p>Virtual</p> <p>May 2021</p>
<p><b>Contributions of auditory and somatosensory feedback to vocal motor control (poster)</b></p> <p>KEARNEY, E., SMITH, D. J., STEPP, C. E., &amp; GUENTHER, F. H.</p> <ul style="list-style-type: none"> <li>• 20th Biennial Conference on Motor Speech</li> </ul>	<p>Santa Barbara, CA, USA</p> <p>February 2020</p>
<p><b>SimpleDIVA: A 3-parameter model for examining adaptation in speech and voice production (poster)</b></p> <p>KEARNEY, E., NIETO-CASTANON, A., DALIRI, A., &amp; GUENTHER, F. H.</p> <ul style="list-style-type: none"> <li>• 11th Annual Meeting of the Society for Neurobiology of Language</li> </ul>	<p>Helsinki, Finland</p> <p>August 2019</p>
<p><b>Investigating the neural mechanisms of speech rate, clarity, and emphasis (poster)</b></p> <p>KEARNEY, E., TOURVILLE, J. A., NIETO-CASTANON, A., &amp; GUENTHER, F. H.</p> <ul style="list-style-type: none"> <li>• Boston Speech Motor Control Symposium</li> </ul>	<p>Boston, MA, USA</p> <p>June 2019</p>
<p><b>A 3-parameter model for fitting and interpreting speech sensorimotor adaptation data (oral presentation)</b></p> <p>GUENTHER, F., KEARNEY, E., DALIRI, A., &amp; NIETO-CASTANON, A.</p> <ul style="list-style-type: none"> <li>• Neural Bases of Speech Production Symposium</li> </ul>	<p>San Francisco, CA, USA</p> <p>March 2019</p>

<b>Speech movements in apraxia of speech (poster)</b>	Calgary, Canada
ROBERTS, E., KEARNEY, E., BAILEY, K., GRAHAM, N., ROCHON, E., & YUNUSOVA, Y.	September 2017
• Canadian Stroke Congress	
<b>Game-based augmented visual feedback treatment for apraxia of speech after stroke (poster)</b>	Calgary, Canada
YUNUSOVA, Y., KEARNEY, E., SCHOLL, J., JANIK-JONES, C., HAWORTH, B., ROBERTS, E., FALOUTSOS, P., & BALJKO, M.	September 2017
• Canadian Stroke Congress	
<b>Game-based speech therapy using visual feedback in Parkinson's disease (poster)</b>	Groningen, Netherlands
KEARNEY, E., HAWORTH, B., SCHOLL, J., GILES, R., FALOUTSOS, P., BALJKO, M., & YUNUSOVA, Y.	July 2017
• 7th International Conference on Speech Motor Control	
<b>Speech movements and intelligibility in Parkinson's disease (oral presentation)</b>	Newport Beach, CA, USA
KEARNEY, E., SHELLIKERI, S., GILES, R., HAWORTH, M. B., FALOUTSOS, P., BALJKO, M., & YUNUSOVA, Y.	March 2016
• 18th Biennial Conference on Motor Speech	
<b>Movement-based speech therapy for dysarthria in Parkinson's disease and apraxia of speech (oral presentation)</b>	Newport Beach, CA, USA
YUNUSOVA, Y., KEARNEY, E., HAWORTH, M. B., FALOUTSOS, P., & BALJKO, M.	March 2016
• 18th Biennial Conference on Motor Speech	
<b>Measuring participation in developmental speech sound disorders with a motor basis (poster)</b>	Denver, CO, USA
KEARNEY, E., GRANATA, F., YUNUSOVA, Y., VAN LIESHOUT, P., HAYDEN, D., & NAMASIVAYAM, A.	November 2015
• American Speech-Language-Hearing Association Convention	
<b>Instrumental outcome measures in developmental speech sound disorders with a motor basis (poster)</b>	Orlando, FL, USA
GRANATA, F., KEARNEY, E., YUNUSOVA, Y., VAN LIESHOUT, P., HAYDEN, D., & NAMASIVAYAM, A.	October 2015
• International Association of Orofacial Myology Convention 2015	
<b>Artifact removal techniques for 3D electromagnetic articulography (oral presentation)</b>	Montreal, Canada
MOGHADDAM, A., HAWORTH, B., KEARNEY, E., FALOUTSOS, P., BALJKO, M., & YUNUSOVA, Y.	August 2015
• 3rd International Workshop on Biomechanical and Parametric Modeling of Human Anatomy	
<b>Articulatory working space in older adults across speaking conditions (oral presentation)</b>	Orlando, FL, USA
KEARNEY, E., HAWORTH, M. B., FALOUTSOS, P., BALJKO, M., & YUNUSOVA, Y.	November 2014
• American Speech-Language-Hearing Association Convention	
<b>Electromagnetic articulography in the development of serious games for speech rehabilitation (oral presentation)</b>	Vancouver, Canada
HAWORTH, M. B., KEARNEY, E., BALJKO, M., FALOUTSOS, P., YUNUSOVA, Y.	August 2014
• 2nd International Workshop on Biomechanical and Parametric Modeling of Human Anatomy	
<b>Articulatory working space as a kinematic target in augmented feedback applications (poster)</b>	Sarasota, FL, USA
KEARNEY, E., HAWORTH, M. B., FALOUTSOS, P., BALJKO, M., & YUNUSOVA, Y.	February 2014
• 17th Biennial Conference on Motor Speech	
<b>Rehabilitative speech computer game calibration using empirical characterizations of articulatory working space (poster)</b>	Sarasota, FL, USA
YUNUSOVA, Y., FALOUTSOS, P., & BALJKO, M.	February 2014
• 17th Biennial Conference on Motor Speech	
<b>Tongue-palate contact during selected vowels in children with speech sound disorder of unknown origin (poster)</b>	Cork, Ireland
LEE, A., KEARNEY, E., & GIBBON, F. E.	June 2012
• International Clinical Phonetics and Linguistics Association Conference	
<b>Tongue-palate contact during selected vowels in children with speech sound disorder of unknown origin (poster)</b>	Dublin, Ireland
LEE, A., KEARNEY, E., & GIBBON, F. E.	November 2011
• Irish Association of Speech and Language Therapists Biennial Conference	

## Workshop



## Improve research dissemination through access: Self-archiving 101 (oral presentation)

SPRATFORD, M., LONG., H. L., HAROLD, M.P., & KEARNEY, E.

- CSDisseminate

Virtual  
January 2021

## Evidence-based practice: Critical appraisal and quality of evidence in clinical research (oral presentation)

NAMASIVAYAM, A. K., KEARNEY, E., SANJEEVAN, T., WONG, W.Y.S., GRANATA, F., & RAMPERSAUD, D.

- The Hanen Centre

Toronto, Canada

June 2016

## NATIONAL

### Invited

## Estimating feedback control during voice production: Experimental and modelling findings (oral presentation)

KEARNEY, E.

- School of Psychology and Counselling Research Seminar, Queensland University of Technology

Brisbane, Australia

September 2022

## Estimating feedback control during voice production: Experimental and modelling findings (oral presentation)

KEARNEY, E.

- Discipline of Speech Pathology Research Seminar, University of Sydney

Sydney, Australia

June 2022

## Sensorimotor control of speech and voice production: Insights from experimental and modeling studies (oral presentation)

KEARNEY, E.

- Centre for Language Sciences Speaker Series, Macquarie University

Sydney, Australia

April 2021

## Conference

## Concreteness form typicality influences language processing (oral presentation)

KEARNEY, E., MCMAHON, K. L., GUENTHER, F. H., ARCIULI, J., & DE ZUBICARAY, G. I.

- Australasian Experimental Psychology Conference

Adelaide, Australia

Apr-24

## Statistical relationships between phonology and sensory meanings of English words influence lexical processing (oral presentation)

DE ZUBICARAY, G. I., KEARNEY, E., GUENTHER, F. H., MCMAHON, K. L., & ARCIULI, J.

- Australasian Experimental Psychology Conference

Adelaide, Australia

Apr-24

## Brain lesions associated with communication-related quality of life following surgical removal of primary left-hemisphere tumours (poster)

KEARNEY, E., BROWNSSETT, S. L. E., COPLAND, D. A., DRUMMOND, K. J., JEFFREE, R. L., OLSON, S., MURTON, E., ONG, B.,

ROBINSON, G. A., TOLKACHEVA, V., MCMAHON, K. L., & DE ZUBICARAY, G. I.

- Aphasiology Symposium of Australia

Melbourne, Australia

November 2022

## Brain lesions associated with communication-related quality of life following surgical removal of primary left-hemisphere tumors (poster)

KEARNEY, E., BROWNSSETT, S. L. E., COPLAND, D. A., DRUMMOND, K. J., JEFFREE, R. L., OLSON, S., MURTON, E., ONG, B.,

ROBINSON, G. A., TOLKACHEVA, V., MCMAHON, K. L., & DE ZUBICARAY, G. I.

- Australasian Brain & Psychological Sciences Meeting

Brisbane, Australia

July 2022

## Software

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### SimpleDIVA

GUENTHER, F.H., NIETO-CASTANON, A., FALSINI, R., KEARNEY, E., & WEERATHUNGE, H.R.

- An application that allows users to apply a simplified version of the DIVA model to data collected from auditory sensorimotor adaptation experiments

<https://bit.ly/2XY1n7f>

2019

## Research Mentoring

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## Amy Nutter

SCHOOL OF PSYCHOLOGY AND COUNSELLING, QUT

- BSc (Honours) Student

Brisbane, Australia

2024

## Olivia Guerrero

SCHOOL OF PSYCHOLOGY AND COUNSELLING, QUT

- BSc Student/Research Assistant

Brisbane, Australia

2023

## Mark O'Connell

SCHOOL OF PSYCHOLOGY AND COUNSELLING, QUT

- BSc (Honours) Student

Brisbane, Australia

2023

## Emma Murton

SCHOOL OF PSYCHOLOGY AND COUNSELLING, QUT

- Speech Pathologist

Brisbane, Australia

2022

## Alexander Acosta

DEPT. OF SPEECH, LANGUAGE AND HEARING SCIENCES, BOSTON UNIVERSITY

- BA (Honours) Student/Research Assistant

Boston, MA, USA

2021-2023

## Mariam El Amin

CSDISSEMINATE

- PhD Student

Boston, MA, USA

2021-2022

## Yash Shroff

DEPT. OF SPEECH, LANGUAGE AND HEARING SCIENCES, BOSTON UNIVERSITY

- BSc Student (successfully acquired funding through the Undergraduate Research Opportunities Program)

Boston, MA, USA

2020-2021

## Lauren Jiang

DEPT. OF SPEECH, LANGUAGE AND HEARING SCIENCES, BOSTON UNIVERSITY

- BSc Student (successfully acquired funding through the Undergraduate Research Opportunities Program)

Boston, MA, USA

2020-2021

## Riccardo Falsini

DEPT. OF SPEECH, LANGUAGE AND HEARING SCIENCES, BOSTON UNIVERSITY

- Research Assistant

Boston, MA, USA

2018-2020

## Hasini Weerathunge

DEPT. OF SPEECH, LANGUAGE AND HEARING SCIENCES, BOSTON UNIVERSITY

- PhD Student

Boston, MA, USA

2018-2019

## Dante Smith

DEPT. OF SPEECH, LANGUAGE AND HEARING SCIENCES, BOSTON UNIVERSITY

- PhD Student

Boston, MA, USA

2018-2019

## Kristen Bailey

DEPT. OF SPEECH-LANGUAGE PATHOLOGY, UNIVERSITY OF TORONTO

- MSc Student/Speech Pathologist

Toronto, Canada

2016-2018

## Jordan Scholl

DEPT. OF SPEECH-LANGUAGE PATHOLOGY, UNIVERSITY OF TORONTO

- Speech Pathologist

Toronto, Canada

2016-2017

## Renuka Giles

DEPT. OF SPEECH-LANGUAGE PATHOLOGY, UNIVERSITY OF TORONTO

- BSc Student

Toronto, Canada

2015-2016

# Teaching

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## CERTIFICATE

### Teaching in Higher Education

WOODSWORTH COLLEGE, UNIVERSITY OF TORONTO

Toronto, Canada

April 2016

## EXPERIENCE

### Course Instructor

DEPT. OF SPEECH, LANGUAGE AND HEARING SCIENCES, BOSTON UNIVERSITY

- Research Methods in Speech-Language Pathology and Audiology, Clinical MSc

Boston, MA, USA

September 2019-December 2019

## Guest Lecturer

DEPT. OF SPEECH, LANGUAGE AND HEARING SCIENCES, BOSTON UNIVERSITY

- SimpleDIVA Software Tutorial, Neural Control of Speech, MSc/PhD

*Boston, MA, USA*

*November 2019*

## Guest Lecturer

MASSACHUSETTS GENERAL HOSPITAL - INSTITUTE OF HEALTH PROFESSIONS

- Advancements in Treatment for Dysarthria, Neuromotor Speech Disorders, Clinical MSc

*Boston, MA, USA*

*July 2019*

## Course Instructor

DEPT. OF SPEECH-LANGUAGE PATHOLOGY, UNIVERSITY OF TORONTO

- Principles of Clinical Practice, Clinical MSc

*Toronto, Canada*

*September 2017-December 2017*

## Teaching Assistant/Guest Lecturer

DEPT. OF SPEECH-LANGUAGE PATHOLOGY, UNIVERSITY OF TORONTO

- Motor Speech Disorders, Clinical MSc
- Articulation and Related Disorders, Clinical MSc
- Research in Speech-Language Pathology, MSc
- Linguistics in the Workforce: Clinical Practice and Research, BSc
- Augmentative and Alternative Communication, Clinical MSc
- Applied Audiology, Clinical MSc
- Neurocognitive Communication, Clinical MSc
- Advanced Principles of Clinical Practice, Clinical MSc
- Adult Language Disorders, BSc

*Toronto, Canada*

*September 2013-June 2017*

# Technical Skills

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## Speech Acoustics

PRAAT, AUDACITY, TF32

## Speech Kinematics

SPEECH MOVEMENT ANALYSIS FOR SPEECH AND HEARING RESEARCH (SMASH)

## Auditory Feedback Perturbation

AUDAPTER

## Signal Processing and Analysis

MATLAB

## Neuroimaging Analysis

STATISTICAL PARAMETRIC MAPPING (SPM), FREESURFER, FUNCTIONAL CONNECTIVITY TOOLBOX (CONN)

## Statistical Analysis

R, MATLAB

## Version Control

GITHUB

## Design and Video Software

AFFINITY DESIGNER, ADOBE SUITE (INDESIGN, ILLUSTRATOR, PHOTOSHOP, PREMIER PRO), DRAW.IO

## Bibliographic Management

ENDNOTE, ZOTERO

## Website Builders

BLOGDOWN, WIX