

# Elaine Kearney

SPEECH SCIENTIST

Brisbane, Australia

✉ elainek.kearney@gmail.com | 🌐 elaine-kearney.com | 📷 elainekearney | 🐦 ek\_kearney

*Speech scientist focused on the sensorimotor control of 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 communication disorders.*

## Education

### 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-Plate Contact During Selected Vowels in Typical and Disordered Articulation
- Advisor: Dr. Alice Lee

## Research Employment

### Postdoctoral Research Fellow

Brisbane, Australia

LANGUAGE, COGNITION AND BRAIN SCIENCES LABORATORY, QUEENSLAND UNIVERSITY OF TECHNOLOGY

April 2022–present

- Projects: A Prospective Study of Language Impairment and Recovery Following Surgery for Brain Tumours; A More Sound Approach to the Neurobiology of Language
- Advisor: Drs. Greig de Zubicaray and Katie L. McMahon

### Consultant Speech Scientist

Brisbane, Australia

INDEPENDENT CONTRACTOR

April 2022–present

### 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 Awards and Honors

### ASHA Research Mentoring Network: Lessons for Success

USA

AMERICAN SPEECH-LANGUAGE-HEARING ASSOCIATION

April 2021

- Attendance at 3-day virtual workshop

### Professional Development and Postdoctoral Affairs Travel Award

Boston, MA, USA

BOSTON UNIVERSITY

August 2019

- 500 USD

### ASHA Research Mentoring Network: Pathways Program

USA

AMERICAN SPEECH-LANGUAGE-HEARING ASSOCIATION

June 2019

- Travel, accommodation and food costs for duration of workshop

### **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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### **American Speech-Language-Hearing Association Special Interest Group 19: Speech Science**

MEMBER

November 2021–Present

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

MEMBER

March 2021–Present

### **American Speech-Language-Hearing Association**

NON-CLINICAL MEMBER

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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### **Open Science Initiative**

CO-FOUNDER, COLLABORATOR

<https://CSDisseminate.com>

July 2020–Present

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

### **Manuscript Reviews**

HANDLING EDITOR

2022–Present

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

- Journal of Speech, Language, and Hearing Research (10)
- American Journal of Speech-Language Pathology (7)
- Neurorehabilitation and Neural Repair (2)
- 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)

## Conference Reviews

- Conference on Motor Speech 2022
- International Clinical Phonetics and Linguistics Association Symposium 2020
- Boston Speech Motor Control Symposium 2019

## Grant Reviews

- LVST Small Student Grant

## Conference Organization

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

# Publications

Available for download at <https://elaine-kearney.com/publication/>

## PEER-REVIEWED

### Open science practices in communication sciences and disorders: A survey

JSLHR

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

in press

- DOI: 10.31219/osf.io/jwba3

### Quantitatively characterizing reflexive responses to pitch perturbations

Front. Hum. Neurosci.

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

in press

### On the roles of form systematicity and sensorimotor effects in language processing

J. Exp. Psychol. Learn. Mem. Cogn.

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

in press

### Contributions of auditory and somatosensory feedback to vocal motor control

JSLHR

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

2020

- DOI: 10.1044/2020\_JSLHR-19-00296

### A simple 3-parameter model for examining adaptation in speech and voice production

Front. Psychol.

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

2020

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

- DOI: 10.3389/fpsyg.2019.02995

### Articulating: The neural mechanisms of speech production

Lang. Cogn. Neurosci.

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

2019

- DOI:10.1080/23273798.2019.1589541

### Towards movement-based outcome measures for apraxia of speech: A systematic review

Aphasiology

BAILEY, K., KEARNEY, E., ROBERTS, E., &amp; 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., &amp; YUNUSOVA, Y.

2019

- DOI:10.1080/21681163.2018.1434423

## Augmented visual feedback-aided interventions in motor rehabilitation in Parkinson's disease: A systematic review

KEARNEY, E., SHELLIKERI, S., MARTINO, R., & YUNUSOVA, Y.

• DOI:10.1080/09638288.2017.1419292

*Disabil. Rehabil.*

2019

## Treating speech-movement hypokinesia in Parkinson's disease: Does movement size matter and to what extent?

KEARNEY, E., HAWORTH, M. B., SCHOLL, J., FALOUTSOS, P., BALJKO, M., & YUNUSOVA, Y.

• DOI:10.1044/2018\_JSLHR-S-17-0439

*JSLHR*

2018

## Sentence-level movements in Parkinson's disease: Loud, clear, and slow speech

KEARNEY, E., GILES, R., HAWORTH, M. B., FALOUTSOS, P., BALJKO, M., & YUNUSOVA, Y.

• DOI: 10.1044/2017\_JSLHR-S-17-0075

*JSLHR*

2017

## Game-based augmented visual feedback for enlarging speech movements in Parkinson's disease

YUNUSOVA, Y., KEARNEY, E., KULKARNI, M., HAWORTH, M. B., BALJKO, M., & FALOUTSOS, P.

• DOI:10.1044/2017\_JSLHR-S-16-0233

*JSLHR*

2017

## Outcome measures in developmental speech sound disorders with a motor basis

KEARNEY, E., GRANATA, F., YUNUSOVA, Y., VAN LIESHOUT, P., HAYDEN, D., & NAMASIVAYAM, A.

• DOI: 10.1007/s40474-015-0058-2

*Curr. Dev. Disord. Rep.*

2015

## Motor Speech Treatment Protocol for developmental motor speech disorders

NAMASIVAYAM, A., PUKONEN, M., HARD, J., JAHNKE, R., KEARNEY, E., KROLL, R., & VAN LIESHOUT, P.

• DOI: 10.3109/17518423.2013.832431

*Dev. Neurorehabil.*

2015

## Tongue-palate contact during selected vowels in children with speech sound disorders

LEE, A., GIBBON, F. E., KEARNEY, E., & MURPHY, D.

• DOI: 10.3109/17549507.2013.862857

*IJSLP*

2014

## SUBMITTED

## 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 on behalf of the Inclusion Body Myositis Scientific Interest Group from International Myositis Assessment and Clinical Studies (IMACS)

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

*Eur. J. Neurol.*

2022

## Converging neural representations of the speech articulators and their relation to speech production

KEARNEY, E., JIANG, L., & GUENTHER, F. H.

*Hum. Brain. Mapp.*

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., & DE ZUBICARAYM G. I.

*Aphasiology*

2022

## PROCEEDINGS

## Electromagnetic articulography in the development of “serious games” for speech rehabilitation

HAWORTH, M. B., KEARNEY, E., BALJKO, M., FALOUTSOS, P., & YUNUSOVA, Y.

*Proceedings from PMHA 2014*

2014

## EDITORIALS

## Enhancing accessibility of communication sciences and disorders research: Open access and self-archiving

GAETA, L., PFEIFFER, D., & KEARNEY, E.

*Audiology Today*

2022

## Presentations

### INTERNATIONAL

### Invited

## **DIVA explained: Applying models of speech production to clinical populations (oral presentation)**

KEARNEY, E., MILLER, H., CHANG, S-E., & GUENTHER, F. H.

- American Speech-Language-Hearing Association Convention

New Orleans, LA< USA

November 2022

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

KEARNEY, E.

- Connect Laboratory Research Seminar

Bloorview Research Institute,  
Toronto, Canada

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 2021

Macquarie University, Sydney,  
Australia

April 2021

## **The speech movement disorder in Parkinson's disease and its rehabilitation using augmented visual feedback (oral presentation)**

KEARNEY, E., HAWORTH, M. B., FALOUTSOS, P., BALJKO, M., & YUNUSOVA, Y.

- Boston Speech Motor Control Working Group, Boston University

Boston, MA, USA

September 2017

## **Development of augmented feedback targets for speech rehabilitation in Parkinson's disease (oral presentation)**

KEARNEY, E., HAWORTH, M. B., FALOUTSOS, P., BALJKO, M., & YUNUSOVA, Y.

- Dept. of Speech and Hearing Sciences, University College Cork

Cork, Ireland

March 2015

## **Conference**

### **Cortical responses to jaw and larynx perturbations during speech production in Parkinson's disease: A preliminary fMRI analysis (poster)**

MANES, J. L., TOURVILLE, J. A., KEARNEY, E., NIETO-CASTANON, A., HOLLAND, B. G., KIM, J. S., & GUENTHER, F. H.

- SFN Neuroscience 2022

San Diego, CA, USA

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.

- 14th Annual Meeting of the Society for Neurobiology of Language

Philadelphia, PA, USA

October 2022

### **Contributions of auditory and somatosensory feedback to vocal motor control (poster)**

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

- 20th Biennial Conference on Motor Speech

Santa Barbara, CA, USA

February 2020

### **SimpleDIVA: A 3-parameter model for examining adaptation in speech and voice production (poster)**

KEARNEY, E., NIETO-CASTANON, A., DALIRI, A., & GUENTHER, F. H.

- 11th Annual Meeting of the Society for Neurobiology of Language

Helsinki, Finland

August 2019

### **Game-based speech therapy using visual feedback in Parkinson's disease (poster)**

KEARNEY, E., HAWORTH, B., SCHOLL, J., GILES, R., FALOUTSOS, P., BALJKO, M., & YUNUSOVA, Y.

- 7th International Conference on Speech Motor Control

Groningen, Netherlands

July 2017

### **Speech movements and intelligibility in Parkinson's disease (oral presentation)**

KEARNEY, E., SHELLIKERI, S., GILES, R., HAWORTH, M. B., FALOUTSOS, P., BALJKO, M., & YUNUSOVA, Y.

- 18th Biennial Conference on Motor Speech

Newport Beach, CA, USA

March 2016

### **Movement-based speech therapy for dysarthria in Parkinson's disease and apraxia of speech (oral presentation)**

YUNUSOVA, Y., KEARNEY, E., HAWORTH, M. B., FALOUTSOS, P., & BALJKO, M.

- 18th Biennial Conference on Motor Speech

Newport Beach, CA, USA

March 2016

### **Measuring participation in developmental speech sound disorders with a motor basis (poster)**

KEARNEY, E., GRANATA, F., YUNUSOVA, Y., VAN LIESHOUT, P., HAYDEN, D., & NAMASIVAYAM, A.

- American Speech-Language-Hearing Association Convention

Denver, CO, USA

November 2015

## **Instrumental outcome measures in developmental speech sound disorders with a motor basis (poster)**

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

## **Artifact removal techniques for 3D electromagnetic articulography (oral presentation)**

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

## **Articulatory working space in older adults across speaking conditions (oral presentation)**

Orlando, FL, USA

KEARNEY, E., HAWORTH, M. B., FALOUTSOS, P., BALJKO, M., & YUNUSOVA, Y.

November 2014

- American Speech-Language-Hearing Association Convention

## **Electromagnetic articulography in the development of serious games for speech rehabilitation (oral presentation)**

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

## **Articulatory working space as a kinematic target in augmented feedback applications (poster)**

Sarasota, FL, USA

KEARNEY, E., HAWORTH, M. B., FALOUTSOS, P., BALJKO, M., & YUNUSOVA, Y.

February 2014

- 17th Biennial Conference on Motor Speech

## **Rehabilitative speech computer game calibration using empirical characterizations of articulatory working space (poster)**

Sarasota, FL, USA

YUNUSOVA, Y., FALOUTSOS, P., & BALJKO, M.

February 2014

- 17th Biennial Conference on Motor Speech

## **Tongue-palate contact during selected vowels in children with speech sound disorder of unknown origin (poster)**

Cork, Ireland

LEE, A., KEARNEY, E., & GIBBON, F. E.

June 2012

- International Clinical Phonetics and Linguistics Association Conference

## **NATIONAL**

### **Invited**

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

Queensland University of  
Technology, Brisbane, Australia

KEARNEY, E.

September 2022

- School of Psychology and Counselling Research Seminar

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

University of Sydney, Sydney,  
Australia

KEARNEY, E.

June 2022

- Discipline of Speech Pathology Research Seminar

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

Brisbane, Australia

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

July 2022

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

- Australasian Brain & Psychological Sciences Meeting

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

Arizona State University, AZ, USA

KEARNEY, E.

March 2021

- Speech and Hearing Science Research Colloquium

## **The speech movement disorder and its rehabilitation in Parkinson's disease using augmented visual feedback (oral presentation)**

Montreal, Canada

KEARNEY, E., HAWORTH, M. B., FALOUTSOS, P., BALJKO, M., & YUNUSOVA, Y.

May 2017

- Ecole d'Orthophonie et d'Audiologie, Université de Montréal

## **Conference**

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

Melbourne, Australia

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

November 2022

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

- Aphasiology Symposium of Australia

## Open science practices in communication sciences and disorders (oral presentation)

Washington, DC, USA

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

November 2021

- American Speech-Language-Hearing Association Convention

## Converging neural representations of the speech subsystems: A meta-analysis (poster)

Virtual

KEARNEY, E., JIANG, L., & GUENTHER, F. H.

June 2021

- Boston Speech Motor Control Symposium

## Quantitative modeling of reflexive responses to auditory perturbations (oral presentation)

Virtual

GUENTHER, F., KEARNEY, E., HELLER-MURRAY, E. S., & NIETO-CASTANON, A.

May 2021

- Neural Bases of Speech Production Symposium

## Investigating the neural mechanisms of speech rate, clarity, and emphasis (poster)

Boston, MA, USA

KEARNEY, E., TOURVILLE, J. A., NIETO-CASTANON, A., & GUENTHER, F. H.

June 2019

- Boston Speech Motor Control Symposium

## A 3-parameter model for fitting and interpreting speech sensorimotor adaptation data (oral presentation)

San Francisco, CA, USA

GUENTHER, F., KEARNEY, E., DALIRI, A., & NIETO-CASTANON, A.

March 2019

- Neural Bases of Speech Production Symposium

## Speech movements in apraxia of speech (poster)

Calgary, Canada

ROBERTS, E., KEARNEY, E., BAILEY, K., GRAHAM, N., ROCHON, E., & YUNUSOVA, Y.

September 2017

- Canadian Stroke Congress

## Game-based augmented visual feedback treatment for apraxia of speech after stroke (poster)

Calgary, Canada

YUNUSOVA, Y., KEARNEY, E., SCHOLL, J., JANIK-JONES, C., HAWORTH, B., ROBERTS, E., FALOUTSOS, P., & BALJKO, M.

September 2017

- Canadian Stroke Congress

## Tongue-palate contact during selected vowels in children with speech sound disorder of unknown origin (poster)

Dublin, Ireland

LEE, A., KEARNEY, E., & GIBBON, F. E.

November 2011

- Irish Association of Speech and Language Therapists Biennial Conference

## WORKSHOPS

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

Virtual

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

January 2021

- CSDisseminate

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

Toronto, Canada

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

June 2016

- The Hanen Centre

## Software

### SimpleDIVA

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

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

2019

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

## Research Mentoring

## Alexander Acosta

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

- BA Student

Boston, MA, USA

2021-Present

## 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

## 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

- MHSc Student

Toronto, Canada

2016-2018

## Renuka Giles

DEPT. OF SPEECH-LANGUAGE PATHOLOGY, UNIVERSITY OF TORONTO

- BSc Student

Toronto, Canada

2015-2016

# Teaching

## 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

## 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