

Abbiati	Claudia Abbiati is a speech-language pathologist and PhD candidate in interprofessional health sciences at the University of Vermont. Ms. Abbiati conducts research under the joint advisement of Dr. Bauerly and Dr. Velleman. She has no financial or nonfinancial relationships to disclose.
Abovich	Julia Abovich is a master's student at MGH Institute, and has no relevant financial or non-financial benefits to disclose related to the presentation.
Abrahao	Dr Abrahao has no relevant or material financial conflicts of interests to disclose.
Abur	Defne Abur has no financial or nonfinancial relationships to disclose.
Adams	Scott Adams is a professor in the School of Communication Sciences and Disorders and the director of the Speech Movement Disorders Lab at Western University. He obtains no financial or nonfinancial benefit related to this presentation, and has no nonfinancial relationships to disclose.
Ahmed	Dr. Beena Ahmed is employed by the School of Electrical Engineering & Telecommunications at The University of NSW, Australia, and is co-founder of UCanSay66, trading as Say66 Pty Ltd, designing speech therapy video-game solutions that incorporate automated speech recognition. Ahmed has no nonfinancial relationships to disclose.
Ali	Farwa Ali is employed by Mayo Clinic where she is a salaried employee. A portion of her salary is covered by grants from the National Institutes of Health. She has no non-financial relationships to disclose.
Ali	Yusuf Ali is a PhD student in the Department of Speech and Hearing Sciences at the University of Washington and has no relevant financial or nonfinancial benefit related to his presentation. He has no nonfinancial relationships to disclose.
Allison	Dr. Kristen Allison is employed by Northeastern University, and received a research grant from the Cerebral Palsy Research Network. She has no nonfinancial relationships to disclose.
Alzamendi	Dr. Gabriel A. Alzamendi, a research assistant at the Institute for Research and Development in Bioengineering and Bioinformatics (IBB), CONICET-UNER, Oro Verde, Argentina, has no financial/nonfinancial relationships to disclose.
Amaral	Jessica Amaral is a recent graduate of the Medical SLP program at the University of Washington and has no relevant financial or non-financial relationships to disclose.
Amir	Rebecca Amir is a student and research assistant at Teachers College, Columbia University and has no financial or nonfinancial relationships to disclose.
Anastasopoulou	Ioanna Anastasopoulou: Macquarie University international scholarship. No nonfinancial relations to disclose.
Aur	Dorian Aur is a Clinical Research Associate in the Movement Disorders Centre at Western University. He obtains no financial or nonfinancial benefit related to this presentation, and has no nonfinancial relationships to disclose.
Austin	Dr. Sara G. Austin is an employee at the University of Texas at Austin. She has no financial relationships to disclose.
Badh	Gursharan Badh is a graduate student at the University at Buffalo. She receives a stipend for conducting research. She has no nonfinancial relationships to disclose.
Bailey	Dr. Bailey is employed at Auburn University. He receives salary for conducting research. He has no nonfinancial relationships to disclose.
Ballard	Dr. Kirrie Ballard is employed by The University of Sydney, Australia, and received two research grants from the Australian Research Council to support work included in this presentation. Ballard is co-founder of UCanSay66, trading as Say66 Pty Ltd, designing speech therapy video-game solutions that incorporate automated speech recognition. Ballard received an AMP Tomorrow Maker grant to support the work in this presentation; and has no nonfinancial relationships to disclose.
Banks	Sarah Banks is employed by the Department of Neurosciences and Psychiatry, University of California, San Diego, CA. She has no financial or non-financial disclosures related to this project.
Barrett	Dr. Tyson Barrett is employed by Utah State University and has received research grants from the National Institutes of Health. He has no non-financial relationships to disclose.

Basciano	Alexis Basciano is a second-year Doctoral student at Arizona State University. She received a Jumpstart Grant from ASU's Graduate and Professional Student Association. She has no nonfinancial relationships to disclose.
Bauerly	Dr. Kim Bauerly is an Assistant Professor in Communication Sciences and Disorders at the University of Vermont. Her research interests include investigating the effects cognitive and social processes have on speech motor control in people who stutter. She has no relevant financial or nonfinancial relationships to disclose
Beiting	Molly Beiting is a doctoral student at Temple University. She receives funding through an NIDCD fellowship (F31 DC018723) and a research grant (R01 DC017768; PI: Maas). She has no other financial or nonfinancial relationships to disclose relevant to this presentation.
Benham	Sara Benham is a post-doctoral researcher at Indiana University. She has no relevant financial or nonfinancial relationships to disclose.
Bennett	Lauren Bennett is employed by Hoag Memorial Hospital Presbyterian, Newport Beach, CA. She has no financial or non-financial disclosures related to this project.
Berisha	Dr. Visar Berisha is employed by Arizona State University and has received research grants from the National Institutes of Health. He is a co-founder and has equity in Aural Analytics. He has no non-financial relationships to disclose.
Berlin	Janna Berlin is an employee at the University of Texas at Dallas. She has no relevant financial or nonfinancial relationships to disclose.
Bernick	Charles Bernick is employed by the Cleveland Clinic Lou Ruvo Center for Brain Health, Las Vegas, NV, and the Department of Neurology, University of Washington, Seattle, WA. He has received research funding from the Ultimate Fighters Championship, Top Rank promotions, Haymon Boxing, and Bellator/Spike TV. He has no other financial or non-financial disclosures related to this project.
Berry	Dr. Berry is employed by Marquette University and received grants from the National Institutes of Health and American Speech-Language-Hearing Foundation that have supported this work. He has no nonfinancial relationships to disclose.
Berry	Dr. Berry is employed by Massachusetts General Hospital. He receives research support from Alexion, Genentech, Biogen, MT Pharma of America, Anelixis Therapeutics, Brainstorm Cell Therapeutics, nQ Medical, NINDS, Muscular Dystrophy Association, ALS One, Amylyx Therapeutics, ALS Association, and ALS Finding A Cure and is a scientific advisor with equity in ReactNeuro. He has no nonfinancial relationships to disclose.
Bhavsar	Arpan Bhavsar is an employee at the Georgia Institute of Technology with Dr. Inan. He has no financial relationship to disclose.
Bohland	Dr. Jason Bohland is employed by the University of Pittsburgh, Pittsburgh, PA, directs the Speech Neural Systems lab in the Department of Communication Science and Disorders, and received research grant funding from the National Science Foundation. He has no financial/nonfinancial relationships to disclose.
Bolowsky	V. Bolowsky has no relevant or material financial conflicts of interests to disclose.
Borrie	Dr. Stephanie Borrie is employed by Utah State University and has received research grants from the National Institutes of Health. She has no non-financial relationships to disclose.
Botha	Hugo Botha is employed by Mayo Clinic where he is a salaried employee. A portion of his salary is covered by grants from the National Institutes of Health. He has no non-financial relationships to disclose.
Boulos	Dr. Mark Boulos is employed by the Division of Neurology, Department of Medicine at the University of Toronto and Sunnybrook Health Sciences Centre. He receives salary support from the Department of Medicine at Sunnybrook Health Sciences Centre. He holds grants (as the primary or co-primary investigator) from the Canadian Institutes of Health Research, the Division of Neurology at the University of Toronto, the Sunnybrook Education Advisory Council and Education Research Unit, Ontario Genomics, and the Innovation Fund form from Alternative Funding Plan of the Academic Health Sciences Centres of Ontario. During the past 3 years, he has

	received in-kind support from Braebon Medical Corporation, Interaxon, and ResMed; Dr. Boulos' research program has also received support from the Mahaffy Family Research Fund.
Bouvier	Dr Bouvier has no relevant or material financial conflicts of interests to disclose.
Brisman	Rachael Brisman is a master's student at Teachers College, Columbia University, and has no relevant financial or non-financial benefits to disclose related to the presentation.
Buchwald	Dr. Adam Buchwald is an Associate Professor of Communicative Sciences and Disorders at New York University and the director of Psycholinguistics, Aphasia, and Neuromodulation Lab. His work is supported by NIH grants. He has no nonfinancial relationships to disclose.
Bugg	Mackenzie Bugg has no relevant financial or nonfinancial benefit related to this presentation. She has no nonfinancial relationships to disclose.
Bunker	Dr. Bunker is employed at the Johns Hopkins University. She receives salary for conducting research. She has no nonfinancial relationships to disclose.
Bunton	Dr. Bunton is employed by the University of Arizona. She has no nonfinancial relationships to disclose.
Burke	Dr. Burke is employed by Massachusetts General Hospital. She has no financial or nonfinancial relationships to disclose.
Burke	Dr. William Burke, MD, is a director at Modality.AI, Inc. and draws salary and owns shares from the company. He has no non-financial relationships to disclose.
Buscarnera	Ms. Buscarnera has no financial or nonfinancial relationships to disclose.
Campanelli	Luca Campanelli is employed by the University of Alabama, and has no relevant financial or nonfinancial benefit related to his presentation. He has no nonfinancial relationships to disclose.
Cao	Beiming Cao is a PhD student at the University of Texas at Austin under the supervision of Dr. Wang. He has no financial relationship to disclose.
Carozzi	George Carozzi, B.S., is a graduate of North Carolina State University with degrees in Mathematics and Computer Science. He volunteered his time and expertise to support this project and has no financial relationships to disclose.
Caruso	V. Caruso is employed by the University of Michigan. Author has no relevant financial or nonfinancial benefit related to this presentation
Case	Dr. Julie Case, Ph.D., CCC-SLP, is employed as an Assistant Professor in the Speech-Language Hearing Department by Hofstra University. Her research in the clinical management of CAS is supported by a research grant from the Once Upon a Time Foundation. She has no non-financial relationships to disclose.
Caspari	Susan Caspari is employed by Temple University. She is Co-Investigator on a research grant from NIDCD (R01 DC017768; PI: Maas). She is also owner of a private practice in speech-language pathology. She serves on the Professional Advisory Council of Apraxia Kids. She donated videos to the Dynamic Evaluation of Motor Speech Skill, and receives no compensation for the donations. She has no other financial or nonfinancial relationships to disclose relevant to this presentation.
Chang	Dr. Chang is employed by the University of Michigan, received grants from the National Institute on Deafness and Other Communication Disorders. She has no financial relationships to disclose.
Chang	Dr. Young Hwa Chang is employed by Rutgers University, and has no relevant financial or non-financial benefits to disclose related to the presentation.
Change	SE Change is employed by the University of Michigan. Author has no relevant financial or nonfinancial benefit related to this presentation
Chao	Andie Chao is employed by Temple University. She has no nonfinancial relationships to disclose.
Chenausky	Dr. Chenausky is employed by the MGH Institute of Health Professions and receives salary support from NIH grants related to this project (P50 DC018006 and K99 DC017490). She has no other relevant financial or nonfinancial benefit related to his presentation.
Cheng	Cissy (Cheng) Cheng is student at the University of Texas at Austin under the mentorship of Dr. Wang. She has no nonfinancial relationships to disclose.
Cheng	Hung-Shao Cheng is a fifth-year PhD student of Communicative Sciences and Disorders at New York University. He receives a doctoral student stipend from NYU. He has been working in the

	Psycholinguistics, Aphasia, and Neuromodulation Lab since the fall of 2017. He has no financial and nonfinancial relationships to disclose.
Chesters	Dr. Chesters is a Senior Research Associate at the Bristol Speech and Language Therapy Unit. She has no financial or non-financial relationships to disclose.
Cheyne	Professor Douglas Cheyne: Australian research council grant dp1702407. No nonfinancial relations to disclose.
Chiew	Dr. Chiew is an Associate Professor at the Nuffield Department of Clinical Neurosciences, University of Oxford. He has no financial or non-financial relationships to disclose.
Choi	Jiyoung Choi is a doctoral student at Teachers College, Columbia University, and has no relevant financial or non-financial benefits to disclose related to the presentation.
Choon-Kon-Yune	Isabelle Choon-Kon-Yune was an undergraduate student at Western University and working as a summer intern in the Speech Movement Disorders Lab during the completion of this work. She obtains no financial or nonfinancial benefit related to this presentation, and has no nonfinancial relationships to disclose.
Chow	Dr. Chow is employed by the University of Delaware, received grants from the National Institute on Deafness and Other Communication Disorders. He has no financial relationships to disclose.
Cilento	Dante Cilento, a research fellow employed by Stepp Lab for Sensorimotor Rehabilitation Engineering, Department of Speech, Language, and Hearing Sciences, Boston University has no financial/non-financial relationships to disclose.
Clark	Dr. Heather Clark is employed by Mayo Clinic where she is a salaried employee. A portion of her salary is covered by grants from the National Institutes of Health. She has no non-financial relationships to disclose.
Clark	Ms. Clark is employed by Massachusetts General Hospital. She has no financial or nonfinancial relationships to disclose.
Cler	Dr. Cler is a Postdoctoral Fellow at the Experimental Psychology Department, University of Oxford. He is funded by the United States National Institutes of Health - National Institute on Deafness and Other Communication Disorders (NIDCD). He has no financial or non-financial relationships to disclose.
Cler	Dr. Gabriel J. Cler, an assistant professor in the Department of Speech & Hearing Sciences, University of Washington, has no financial/nonfinancial relationships to disclose.
Connaghan	Dr. Kathryn Connaghan is employed by the MGH Institute of Health Professions in Boston, MA, and is partially supported by the National Institute of Deafness and Communication Disorders, the Winthrop Family Fund for ALS Science at Massachusetts General Hospital, and the ALS Association. She received a consulting fee from the Duquesne University Faculty Development Grant. She has no nonfinancial relationships to disclose.
Corcos	Dr. Daniel Corcos is employed by Northwestern University and has no relevant financial or nonfinancial benefit related to this presentation. He has no nonfinancial relationships to disclose.
Cornish	Mr. Andrew Cornish is a senior engineer at Modality.AI, Inc. and draws salary and owns shares from the company. He has no non-financial relationships to disclose.
Cronin	Dr Paula Cronin is Senior Research Fellow at the University of Technology, Sydney. She has received funding from the NHMRC, Cancer Australia, the Australian Department of Health, Speech Pathology Australia and Asthma Australia. She has no nonfinancial relationships to disclose.
Cushman	Megan Cushman is a research assistant employed by the Stepp Lab for Sensorimotor Rehabilitation Engineering in the Department of Speech, Language, and Hearing Sciences at Boston University and has no financial/nonfinancial relationships to disclose.
Cushnie-Sparrow	Daryn Cushnie-Sparrow was a doctoral candidate at Western University associated with the Speech Movement Disorders Lab during the completion of this work. She obtains no financial or nonfinancial benefit related to this presentation, and has no nonfinancial relationships to disclose.
Daley	Dr. Caron Daley is employed by Duquesne University in Pittsburgh, PA. She has no nonfinancial relationships to disclose. This project was supported by a Duquesne University Faculty Development Grant.
de Riesthal	Michael de Riesthal has no financial or nonfinancial relationships to disclose.

de Swart	Dr. Bert de Swart is employed by RadboudUMC, and has no relevant financial or nonfinancial benefit related to his presentation. He has no nonfinancial relationships to disclose / He is co-author of the Computer Articulation Instrument (CAI).
DeDe	Gayle DeDe is employed by Temple University. She has no other financial or nonfinancial relationships to disclose related to this presentation.
DeSanctis	Jessica DeSanctis is a graduate student in the Department of Speech and Hearing Sciences at the University of New Mexico, Albuquerque, NM. She has no financial or non-financial disclosures related to this project.
Diepeveen	Sanne Diepeveen, MA. is employed by HANUniversity of Applies Sciences, and has no relevant financial or nonfinancial benefit related to his presentation. He has no nonfinancial relationships to disclose / She is co-author of the Computer Articulation Instrument (CAI).
Doherty	Ms. Kayla Doherty is a recent graduate of Northeastern University and is currently employed by the Pediatric Therapy Center in NH. She has no nonfinancial relationships to disclose.
Dromey	Dr. Dromey is employed by Brigham Young University. He has no non-financial relationships to disclose.
Duffy	Dr. Joe Duffy is employed by Mayo Clinic where he is a salaried employee. A portion of his salary is covered by grants from the National Institutes of Health. He has no non-financial relationships to disclose.
Dunne-Platero	Kylie Dunne-Platero, Taylor Fahey, and Melanie Esver have no financial or nonfinancial relationships to disclose.
Eadie	Dr. Eadie received a grant from the National Institutes of Health and has no nonfinancial relationships to disclose.
Edmonds	Dr. Lisa Edmonds is employed by Teachers College, Columbia University and has no financial or nonfinancial relationships to disclose.
Eshghi	Dr. Eshghi is employed by the MGH Institute of Health Professions and is partially supported by the National Institute on Deafness and Other Communication Disorders. She has no nonfinancial relationships to disclose.
Exner	Mr. Andrew Exner is a doctoral student at Purdue University. He receives a salary from NIH through his position as a trainee on a T32 grant awarded to the department. He has no non-financial relationships to disclose.
Fahey	Taylor Fahey is employed by the University of Colorado Boulder as lab manager in the CO Motor Speech Lab. She has no nonfinancial relationships to disclose.
Feenaughty	Dr. Feenaughty is employed by the University of Memphis and received a new faculty research grant from the School of Communication Sciences and Disorders. She has no nonfinancial relationships to disclose.
Fless	Zuzana Fless has no conflicts of interest to disclose.
Fletcher	Dr. Fletcher is employed by Utah State University. She has no non-financial relationships to disclose
Fox	Peter Fox is employed by the University of Texas Health Science Center, San Antonio, TX. He has no nonfinancial relationships to disclose.
Franklin	Crystal Franklin is employed by the University of Texas Health Science Center, San Antonio, TX. She has no nonfinancial relationships to disclose.
Franzén	Erika Franzén is employed as a professor at Karolinska Institute with a joint position with Karolinska University Hospital. She has no financial or nonfinancial relationships to disclose.
Frodel	Taylor Frodel is employed by the University of Wisconsin-Whitewater and has no nonfinancial relationships to disclose.
Fullenkamp	Adam M. Fullenkamp, Ph.D., is employed by Bowling Green State University. He has no nonfinancial relationships to disclose.
Ganguly	Jack Ganguly is a Clinical Neurology Fellow in Movement Disorders in the Movement Disorders Centre at Western University. He obtains no financial or nonfinancial benefit related to this presentation, and has no nonfinancial relationships to disclose.

Garnett	E Garnett is employed by the University of Michigan. Author has no relevant financial or nonfinancial benefit related to this presentation
Ghosh	Satrajit Ghosh is affiliated with the McGovern Institute for Brain Research at MIT and the Department of Otolaryngology – Head and Neck Surgery at Harvard Medical School, and is faculty as part of the Speech and Hearing Bioscience and Technology Program at Harvard Medical School. He has no relevant financial or nonfinancial benefit related to this presentation. He has no nonfinancial relationships to disclose.
Gildersleeve-Neumann	Christina Gildersleeve-Neumann is employed by Portland State University. She receives a consultant fee through a research grant from NIDCD (R01 DC017768; PI: Maas). She also serves on the Professional Advisory Council of Apraxia Kids. She has no other financial or nonfinancial relationships to disclose relevant to this presentation.
Gilmore	Greydon Gilmore was a doctoral candidate at Western University associated with the Department of Clinical Neurological Sciences during the completion of this work. He obtains no financial or nonfinancial benefit related to this presentation, and has no nonfinancial relationships to disclose.
Goel	Ms. Goel is an undergraduate student at the University of Florida. She has no non-financial relationships to disclose.
Goffman	Lisa Goffman is a Professor at University of Texas at Dallas. She has no relevant financial or nonfinancial relationships to disclose.
Gomez	Ms Gomez is employed at The University of Sydney. She has received funding from Speech Pathology Australia. She has no nonfinancial relationships to disclose.
Gravelin	Anna Gravelin, Ph.D. is employed by West Virginia University. She does not have non-financial relationships to disclose.
Green	Dr. Jordan Green is employed by the MGH Institute of Health Professions as a professor and Associate Provost for research. Portions of his salary are supported by grants awarded by the National Institutes of Health to conduct this work. He has no nonfinancial relationships to disclose. Dr. Green consults with the Google research on ASR products unrelated to the one tested in this project.
Green	Ms. Green has no financial or nonfinancial relationships to disclose.
Greene	Lindsay Greene is a student at The University of North Carolina at Chapel Hill. She has no financial or nonfinancial relationships to disclose.
Greenlee	Dr. Jeremy Greenlee is employed by University of Iowa and receives research support from the National Institutes of Health. He has no nonfinancial relationships to disclose.
Grigos	Maria Grigos, Ph.D., CCC-SLP, is an Associate Professor and Chair in the Department of Communicative Sciences and Disorders at NYU. She is employed by New York University and her research on childhood apraxia of speech is supported by funding from the National Institute of Health (NIDCD R01DC018581) and the Once Upon a Time Foundation. A nonfinancial disclosure is that she is a member of the Professional Advisory Council for Apraxia Kids.
Gruver	Emily Gruver has no financial or non-financial relationships to disclose.
Guarin	Dr. Diego Guarin is employed by the Florida Institute of Technology and funded the National Institutes of Health. He has no financial and non-financial relationships to disclose.
Guenther	Dr. Frank H. Guenther, the principal investigator of the Speech Neuroscience Lab, Department of Speech, Language, and Hearing Sciences, Boston University. He has several research grants from NIDCD and has no financial/nonfinancial relationships to disclose.
Gutz	Ms. Sarah Gutz is a PhD candidate in the Speech and Hearing Bioscience and Technology program at Harvard University in the Division of Medical Sciences. She is partially funded through an F31 predoctoral fellowship from the National Institute on Deafness and Other Communication Disorders. She has no nonfinancial relationships to disclose.
Habberstad	Mr. Doug Habberstad is a senior engineer at Modality.AI Inc. and draws salary and owns shares from the company. He has no non-financial relationships to disclose.
Hacker	Emily J. Hacker was previously employed by the University of Pittsburgh and has no non-financial relationships to disclose.

Haenssler	Dr. Haenssler is employed by the MGH Institute of Health Professions in Boston, MA. She has no financial or nonfinancial relationships to disclose.
Haley	Dr. Haley is employed by The University of North Carolina School of Medicine and receives funding from the National Institute on Deafness and Other Communication Disorders. She has no nonfinancial relationships to disclose.
Hallin	Anna Eva Hallin, Ph.D., is employed as an Assistant Professor in the Department of Clinical Science, Intervention and Technology, in the Division of Speech-Language Pathology by Karolinska Institutet. Dr. Hallin has no non-financial relationships to disclose.
Halpern	Angela Halpern is employed by LSVT Global, Inc. She has disclosed any conflict of interest and conflict of interest management plans have been approved by the Office of Conflict of Interest and Commitment at the University of Colorado, Boulder, CO.
Hammer	Michael Hammer is employed by the University of Wisconsin-Whitewater and has no nonfinancial relationships to disclose.
Hansen	Olivia Hansen has no financial or nonfinancial relationships to disclose.
He	Peter He is employed by Auburn University. He has no nonfinancial relationship to disclose.
Heard	Dr Heard is an honorary Senior Lecturer at The University of Sydney. He has received funding from Apraxia-Kids. He has no nonfinancial relationships to disclose.
Heidrick	Lindsey Heidrick has no financial or nonfinancial relationships to disclose.
Heitzman	Dr. Daragh Heitzman is an employee of MDA/ALS Clinic Texas Neurology. He has no financial relationships to disclose.
Heyne	Matthias Heyne is employed by the University of Pittsburgh and has no non-financial relationships to disclose.
Hilger	Dr. Allison Hilger is employed by the University of Colorado Boulder and received a startup fund from the university. She has no nonfinancial relationships to disclose.
Hirsch	Micah Hirsch is a doctoral student and graduate research assistant at Florida State University and has no relevant financial or non-financial benefit related to this presentation.
Hong	Eunice Hong is a master's student at Teachers College, Columbia University, and has no relevant financial or non-financial benefits to disclose related to the presentation.
Hoole	Prof. Phil Hoole is a tenured senior scientific staff member of the Institute for Phonetics and Speech Processing, Ludwig-Maximilians-University. He has no financial or non-financial relationships to disclose.
Huber	Dr. Jessica Huber is a Professor at Purdue University, was principal investigator on the grant from the National Institutes of Health to conduct this work, as well as principal investigator on a number of grants from NIH, and is the inventor of the SpeechVive device. She owns shares in SpeechVive, Inc, the company that manufactures and sells the SpeechVive device. She serves on the medical advisory board for Rock Steady Boxing, but has no other non-financial relationships to disclose.
Huigh	Charlotte Huigh, MS. is employed by Rijndam, and has no relevant financial or nonfinancial benefit related to his presentation. He has no nonfinancial relationships to disclose.
Hunter	Eric Hunter is employed by the Michigan State University, Lansing, MI. He has no nonfinancial relationships to disclose.
Hustad	Katherine Hustad is employed at the University of Wisconsin - Madison, she receives research funding from the National Institutes of Health. She has no financial or non-financial relationships to disclose.
Huynh	A. Huynh has no relevant or material financial conflicts of interests to disclose.
Hwang	Kyung Hae Hwang is a doctoral student at Teachers College, Columbia University, and has no relevant financial or non-financial benefits to disclose related to her presentation.
Inan	Dr. Omer Inan is an employee at the Georgia Institute of Technology. He received awards from NIH, NSF and other agencies to support his research. He has no financial relationship to disclose.
Iuzzini-Seigel	Dr. Jenya Iuzzini-Seigel is employed by Marquette University and received funding from Marquette University to support the current work. She has no other financial or nonfinancial relationships to disclose relevant to this presentation.

Jacks	Dr. Jacks is employed by The University of North Carolina School of Medicine and receives funding from the National Institute on Deafness and Other Communication Disorders. He has no nonfinancial relationships to disclose.
Jackson	Ms. Jackson was a student at Brigham Young University at the time of the study. She has no financial or non-financial relationships to disclose.
Jafari	Deniz Jafari has no conflicts of interest to disclose.
Jingwen	Joanne Jingwen Li is a Ph.D. candidate in the Department of Communicative Sciences and Disorders at New York University. She has no relevant financial or nonfinancial benefit related to this presentation.
Jog	Mandar Jog is a professor of neurology in the Department of Clinical Neurological Sciences and the director of the Movement Disorders Program at Western University. He has received grants from CIHR, MITACS, OCE, Merz, Allergan, Abbvie and Boston Scientific. He has also received speaker fees from Merz, Allergan, Abbvie and UCB Pharma. He obtains no financial or nonfinancial benefit related to this presentation.
Johnson	Catie Johnson is an MSc candidate in Health and Rehabilitation Science at Western University and is associated with the Speech Movement Disorders Lab. She obtains no financial or nonfinancial benefit related to this presentation, and has no nonfinancial relationships to disclose.
Johnson	Dr. Johnson is employed by the University of Kentucky and received grants from the National Science Foundation that have supported this work. He has no nonfinancial relationships to disclose.
Johnson	Honorary Professor Blake Johnson: Australian research council grant dp1702407. No nonfinancial relations to disclose.
Johnson	Ms. Johnson is a graduate student in the Michigan State University. She has no financial relationships to disclose.
Josephs	Dr. Keith Josephs is employed by Mayo Clinic where he is a salaried employee. A portion of his salary is covered by grants from the National Institutes of Health. He has no non-financial relationships to disclose.
Kallhoff	Lydia Kallhoff is employed by the University of Utah, received a salary as a research assistant. She has no nonfinancial relationships to disclose.
Karlin	Dr. Karlin is employed by the University of Wisconsin–Madison and received research grants from the National Institute on Deafness and Other Communication Disorders. She has no nonfinancial relationships to disclose.
Kawamura	Ava Kawamura is a student at the Bronx High School of Science and has no relevant financial or nonfinancial benefit related to her presentation. She has no nonfinancial relationships to disclose.
Kearney	Dr. Kearney is employed by Boston University and has no relevant financial or nonfinancial benefit related to this presentation. She has no nonfinancial relationships to disclose.
Keegan	Ms. Keegan is employed by Massachusetts General Hospital. She has no financial or nonfinancial relationships to disclose.
Keller	Sydney Keller received a Diamond Research Scholarship from Temple University to conduct this independent research project. She has no other financial or nonfinancial relationships to disclose.
Kelly	Grace Kelly is a speech pathology clinician with EnhanceABILITY, an honorary affiliate of Charles Sturt University, and a research assistant funded by Ballard’s AMP Tomorrow Maker grant that supported the work in this presentation. Kelly has no nonfinancial relationships to disclose.
Ketterer	Ms. Ketterer has no financial or nonfinancial relationships to disclose.
Khaloueipour	Nasim Khaloueipour is employed by the University of Tennessee and has no relevant financial or nonfinancial benefit related to this presentation. She has no nonfinancial relationships to disclose.
Kiefer	Ms. Brianna Kiefer is a doctoral student at Purdue University. She has received a fellowship grant from the National Institutes of Health for work unrelated to this proposal. She has no non-financial relationships to disclose.
Kim	Daniel Kim has no financial or nonfinancial relationships to disclose.
Kim	Dr. Yunjung Kim is employed by Florida State University and received research grants from Florida State University. She has no other financial and non-financial relationships to disclose.



Kim	Yoonji Kim is a student at Temple University and has no financial relationships to disclose.
Kinahan	Sean Kinahan is employed by Arizona State University and has no relevant financial or nonfinancial benefit related to his presentation. He has no nonfinancial relationships to disclose.
Knowles	Dr. Thea Knowles is employed at the University at Buffalo. She receives a salary for conducting research. She has no nonfinancial relationships to disclose.
Kohen	Francine Kohen is employed by Temple University. She has no other financial or nonfinancial relationships to disclose related to this presentation.
Kohlmeier	Ms. Kohlmeier is an undergraduate student at Purdue University. She works part-time at the University libraries. She has no non-financial relationships to disclose.
Kopera	Hailey Kopera, M.Phil., M.S., CCC-SLP, is an Assistant Professor in the Communication Sciences and Disorders Department at Iona College and a doctoral candidate at New York University. She has no relevant financial or nonfinancial relationships to disclose.
Korzyukov	Oleg Korzyukov is employed by the University of Wisconsin-Whitewater and has no nonfinancial relationships to disclose.
Kothare	Dr. Hardik Kothare is a research scientist at Modality.AI, Inc. and draws salary and owns shares from the company. He has no non-financial relationships to disclose.
Krajewski	Elizabeth Krajewski is a Ph.D. student at the Pennsylvania State University. She has no financial or nonfinancial relationships to disclose.
Kriegel	Zoe Kriegel is a doctoral student employed by Bowling Green State University. She has no nonfinancial relationships to disclose.
Kuo	Dr. Kuo is employed by James Madison University (JMU), received a collaborative research grant from the 4-VA initiative <a href="https://4-va.org/">https://4-va.org/</a> and a faculty research grant from JMU College of Health and Behavioral Studies. She has no other financial or non-financial relationships to disclose.
Kurteff	Garret Kurteff is a PhD student at the University of Texas at Austin under the mentorship of Dr. Liberty Hamilton. He has no financial relationship to disclose.
Kuruvilla-Dugdale	Dr. Mili Kuruvilla-Dugdale is employed by the University of Missouri, Columbia and has received research funding from the National Institutes on Deafness and Other Communication Disorders (NIDCD). This research was funded by grant R15DC016383 from NIDCD. She has no nonfinancial relationships to disclose.
Lambert	Ms. Lambert is the Vice President for Clinical Development at SpeechVive, Inc, works per-diem as a speech-language pathologist at The Mentor Network and Sky Ridge Hospital, and was principal investigator on the grant from the National Institutes of Health to conduct this work. She owns shares in SpeechVive, Inc, the company that manufactures and sells the SpeechVive device. She has no non-financial relationships to disclose.
Lansford	Dr. Lansford is employed by Florida State University and has received a research grant from the National Institutes of Health. She has no non-financial relationships to disclose.
Lee	Dr. Jimin Lee is an Associate Professor in Communication Sciences and Disorders at the Pennsylvania State University. She has no financial relationships to disclose.
Lescht	E. Lescht is employed at Pittsburgh University. Author has no relevant financial or nonfinancial benefit related to this presentation
Lester-Smith	Rosemary A. Lester-Smith, Ph.D., CCC-SLP, is employed by The University of Texas at Austin. Her research is funded by the National Institute on Deafness and Other Communication Disorders (R21DC017001). She has no relevant nonfinancial relationships to disclose.
Levy	Dr. Erika S. Levy is employed by Teachers College, Columbia University, and has no relevant financial or non-financial benefits to disclose related to the presentation.
Liscombe	Dr. Jackson Liscombe is a research scientist at Modality.AI, Inc. and draws salary and owns shares from the company. He has no non-financial interests to disclose.
Liss	Julie Liss is employed by Arizona State University and has received research grants from the National Institutes of Health. She is co-founder and has equity in Aural Analytics and has no non-financial relationships to disclose.

Liu	Dr. Y. Liu is employed by the University of Michigan, received a research grant from the National Institute on Deafness and Other Communication Disorders. She has no financial relationships to disclose.
Long	Helen Long is employed at the Waisman Center of the University of Wisconsin-Madison. She receives salary as an NICHD T32 awardee for conducting research. She has no nonfinancial relationships to disclose.
Low	Daniel Low is a student at Harvard University under a training grant from the National Institute of Health and a fellowship from RallyPoint. He has no nonfinancial relationships to disclose.
Lowenstein	Dr. Lowenstein is employed by the University of Florida. She has no non-financial relationships to disclose.
Lowit	Dr. Lowit is employed by the University of Strathclyde and has no financial or non-financial relationships to disclose.
Maas	Dr. Edwin Maas is employed by Temple University. He is Principal Investigator on a research grant from the National Institute on Deafness and Other Communication Disorders (R01 DC017768) and has received research funding from Apraxia Kids. He serves on the Professional Advisory Council of Apraxia Kids, and is Chair of the Motor Speech Disorders track of the 2022 Conference on Motor Speech. He has no other financial or nonfinancial relationships to disclose relevant to this presentation.
Maassen	Dr. Ben Maassen was previously employed by and is now professor emeritus at the University of Groningen. He has no financial or nonfinancial benefit related to his presentation.
MacAuslan	Joel MacAuslan is the President and Chief Scientific Officer at the Speech Technologies and Applied Research Corp and the developer of the freely available SpeechMark technology. He has no nonfinancial relationship to disclose.
Maffei	Marc Maffei is employed by the MGH Institute of Health Professions and receives partial salary support from NIH grants related to this project (P50 DC018006 and F31 DC020108). He has no other relevant financial or nonfinancial benefit to disclose related to this presentation.
Mahoney	Phillip Mahoney is employed by Kindred Healthcare. He has no other financial or nonfinancial relationships to disclose related to this presentation.
Mahr	Tristan Mahr is employed at the University of Wisconsin - Madison, he receives research funding from the National Institutes of Health. He has no financial or non-financial relationships to disclose.
Malandraki	Dr. Malandraki is an Associate Professor at Purdue University, was a consultant on the grant from National Institutes of Health (NIH) to conduct this work, as well as principal investigator on a number of grants from NIH. She serves as the President Elect of the Dysphagia Research Society but has no other non-financial relationships to disclose.
Martel-Sauvageau	Dr. Martel-Sauvageau is employed by Université Laval (Quebec, Canada) and received a research grant from Fonds de Recherche Québec - Société et Culture. He has no nonfinancial relationships to disclose.
Martino	Dr Martino has no relevant or material financial conflicts of interests to disclose.
Maryn	Youri Maryn is employed by the Department of Otorhinolaryngology & Head and Neck Surgery, Sint-Augustinus Hospital (Wilrijk, Belgium); serves as professor at University College Ghent, University of Ghent and Université Catholique Louvain, for which he receives salaries. He is executive board member of Vlaamse Vereniging voor Logopedisten (Flemish Association of Speech-Language Therapists) for which he also receives a salary. He owns Phonanium (Lokeren, Belgium) and receives royalty payments from the sale of voice analysis products. He is post-doctoral researcher at University of Antwerp and received no compensation for this work.
Masapollo	Dr. Masapollo is employed by the University of Florida. He has no non-financial relationships to disclose.
Mau	Dr. Ted Mau is an employee at the UT Southwestern Medical Center. He has no financial relationship to disclose.
Mauszycki	Dr. Shannon Mauszycki is employed by the University of Utah and receives a salary as a clinical faculty. She has no nonfinancial relationships to disclose.

Max	Ludo Max, Ph.D., is employed by the Department of Speech and Hearing Sciences at the University of Washington and has no relevant financial or nonfinancial benefit related to his presentation. He has no nonfinancial relationships to disclose.
McAllister	Tara McAllister is employed by New York University. She reports funding from the National Institute of Health and National Institute of Deafness and other Communicative Disorders (NIH-NIDCD) R01 DC017476 during the conduct of the study. She has no nonfinancial relationships to disclose.
McAuliffe	Dr. Megan McAuliffe is employed by the University of Canterbury, and has no relevant financial or nonfinancial benefits related to her presentation. She has no nonfinancial relationships to disclose.
McCabe	Dr McCabe is employed by the University of Sydney, holds an honorary position at South Western Sydney Local Health District and works as a private practitioner in Sydney, Australia. She is an honorary member of the Professional Advisory Committee of Apraxia-Kids and of the Professional Standards Committee of Speech Pathology Australia and receives grants and reimbursement for various expenses from both organizations. She has no other financial or non-financial relationships to disclose.
McDonough	Dr. McDonough is a Professor at the University of Calgary and was a consultant on the grant from National Institutes of Health (NIH) to conduct this work. She has no non-financial relationships to disclose.
McLeod	Prof. Sharynne McLeod is employed at Charles Sturt University, Australia; Life Member of Speech Pathology Australia, has received Honors of the American Speech-Language-Hearing Association, is Co-Chair of the International Expert Panel on Multilingual Children's Speech, Deputy Chair of the Child Speech committee of the International Association of Communication Sciences and Disorders, and Executive Council Member of the Asia Pacific Society for Speech, Language and Hearing.
McMahan	Keely McMahan has no financial or nonfinancial relationships to disclose.
Mefferd	Dr. Antje Mefferd is employed by Vanderbilt University Medical Center and has received research funding from the National Institutes on Deafness and Other Communication Disorders (NIDCD). This research was funded by grant R03DC015075 from NIDCD. She has no nonfinancial relationships to disclose.
Mira	Ms. Mira has no financial or nonfinancial relationships to disclose.
Mount	Amanda Mount has no financial or nonfinancial relationships to disclose.
Moya-Galé	Dr. Gemma Moya-Galé is employed by Long Island University, and has no relevant financial or nonfinancial benefits related to her presentation. She has no nonfinancial relationships to disclose.
Murray	Dr Murray is an honorary lecturer at The University of Sydney and a private practitioner in Sydney, Australia. She has received funding from Apraxia-Kids and the Once Upon a Time Foundation.
Murray	Dr. Heller Murray is employed by Temple University. She has no nonfinancial relationships to disclose.
Murton	Dr. Murton is employed by the MGH Institute of Health Professions and is partially supported by the National Institute on Deafness and Other Communication Disorders. She has no nonfinancial relationships to disclose.
Naber	Chris Naber is employed by the University of Wisconsin–Madison and has no relevant financial or nonfinancial benefit related to this presentation. He has no nonfinancial relationships to disclose.
Naeini	Saeid Alavi Naeini has no conflicts of interest to disclose.
Nagle	Dr. Nagle received a grant from the ASH Foundation, and has no nonfinancial relationships to disclose.
Naim	Ilana Naim is a master's student at Teachers College, Columbia University, and has no relevant financial or non-financial benefits to disclose related to the presentation.
Narayana	Shalini Narayana is employed by the University of Tennessee Health Science Center, Memphis TN. She has no nonfinancial relationships to disclose.

Nealon	Dr. Kate Nealon is employed by Kean University and has no financial or nonfinancial relationships to disclose.
Neel	Amy Neel is employed by the Department of Speech and Hearing Sciences at the University of New Mexico, Albuquerque, NM. She received a Women in STEM Research Seed Award from the University of New Mexico for this project. She has no other financial or non-financial disclosures related to this project.
Neumann	Dr. Michael Neumann is a research scientist at Modality.AI, Inc. and draws salary and owns shares from the company. He has no non-financial relationships to disclose.
Niculae-Caxi	Teodora Niculae-Caxi is employed by Temple University. She receives funding through a research grant from NIDCD (R01 DC017768; PI: Maas). She has no other financial or nonfinancial relationships to disclose relevant to this presentation.
Nieto-Castañón	Dr. Nieto-Castañón is employed by Boston University and has no relevant financial or nonfinancial benefit related to this presentation. He has no nonfinancial relationships to disclose.
Nightingale	Christopher Nightingale is employed by Variety School of Hawaii and has no relevant financial or nonfinancial benefit related to his presentation. He has no nonfinancial relationships to disclose.
Nip	Dr. Nip is employed by San Diego State University. He has no nonfinancial relationships to disclose.
Nittrouer	Dr. Nittrouer is employed by the University of Florida. She has no non-financial relationships to disclose.
Niziolek	Dr. Niziolek is employed by the University of Wisconsin–Madison and received research grants from the National Institute on Deafness and Other Communication Disorders and the National Science Foundation. She has no nonfinancial relationships to disclose.
O’Keeffe	Derek O’Keeffe is at NUI Galway and has no relevant financial or nonfinancial benefit related to this presentation. He has no nonfinancial relationships to disclose.
Ocampo	Mr. Alexander Ocampo is a summer intern at Modality.AI, Inc. and owns shares from the company.
O’Farrell	Ciara O’Farrell is a student at the University of Sydney and has no relevant financial or nonfinancial benefit related to her presentation. She has no nonfinancial relationships to disclose.
Oh	Dr. Oh is employed by the University of Florida. He has no non-financial relationships to disclose.
Olsen	Emily Olsen has no financial or nonfinancial relationships to disclose.
Onnela	Dr. Onnela is employed by Harvard University and is the developer of the Beiwe research platform. He has no other nonfinancial relationships to disclose. His work on this project has been supported through funding from the National Institutes of Health.
Page	Dr. Allyson Page is employed by Western University. She has no financial or nonfinancial relationships to disclose.
Parrell	Dr. Parrell is employed by the University of Wisconsin–Madison and received research grants from the National Institute on Deafness and Other Communication Disorders and the National Science Foundation. He has no nonfinancial relationships to disclose.
Parsa	Dr. Vijay Parsa is employed at Western University. He receives a salary for conducting research. He has no nonfinancial relationships to disclose.
Pattee	Dr. Pattee has no financial or nonfinancial interest to disclose.
Patterson	Dr. Charity Patterson is employed by the University of Pittsburgh and receives research support from National Institutes of Health, Patient Centered Outcomes Research Institute, and Department of Defense. She has no nonfinancial relationships to disclose.
Pautler	Dr. David Pautler is a Founder and the Chief Technology Officer at Modality.AI, Inc. and draws salary and owns shares from the company. He has no non-financial interests to disclose.
Pennetti	Vincent J. Pennetti has no financial or non-financial relationships to disclose.
Peterson	Elizabeth Peterson is employed by LSVT Global, Inc. She has disclosed any conflict of interest and conflict of interest management plans have been approved by the Office of Conflict of Interest and Commitment at the University of Colorado, Boulder, CO.
Petitjean	Ashley P. Petitjean is employed by the University of Pittsburgh and has no non-financial relationships to disclose.

Pfaff	Olivia Pfaff is a graduate student at the Pennsylvania State University. She has no financial or nonfinancial relationships to disclose.
Pieterman	Marcus Pieterman was a Master's candidate at Western University associated with the Department of Clinical Neurological Sciences during the completion of this work. He obtains no financial or nonfinancial benefit related to this presentation, and has no nonfinancial relationships to disclose.
Potkovic	Grace Potkovic is employed by Howard County Public Schools. She has no other financial or nonfinancial relationships to disclose related to this presentation.
Preston	Dr Preston is employed by Syracuse University and at Haskins Laboratories. He has received funding from Apraxia-Kids and the NIH. He is an unpaid member of the Professional Advisory Committee of Apraxia Kids. Dr Preston is an honorary research associate at the University of Sydney.
Purcell	Dr Purcell is employed by the University of Sydney and has received funding from NHMRC and the NSW government. She has an honorary appointment at Sydney Children's Hospital in NSW Australia and serves on the Premier's Advisory Committee on Deafness and Hearing and on the Board of the not-for-profit Bankstown Community Resource Group.
Quatieri	Thomas F. Quatieri is senior staff at MIT Lincoln Laboratory and faculty at Harvard University's Speech and Hearing Bioscience and Technology program, and received internal funding from MIT Lincoln Laboratory for this presentation. He has no nonfinancial relationships to disclose.
Quinn	Olivia Quinn is employed by Temple University. She has no nonfinancial relationships to disclose.
Ramanarayanan	Dr. Vikram Ramanarayanan is the Chief Scientific Officer at Modality.AI, Inc. and an Assistant Adjunct Professor at the University of California, San Francisco, and is salaried and owns shares from Modality.AI. He has no non-financial interests to disclose.
Ramig	Lorraine Ann Ramig is employed as Chief Scientific Officer and has ownership interest in the for-profit company LSVT Global, Inc. She is in full compliance with Federal Statute 42 C.F.R. Part 50, Subpart F (see <a href="https://grants.nih.gov/grants/policy/coi/index.htm">https://grants.nih.gov/grants/policy/coi/index.htm</a> ). She has disclosed any conflict of interest and her conflict of interest management plan has been approved by the Office of Conflict of Interest and Commitment at the University of Colorado, Boulder and she is in full compliance. She reports funding from the National Institute of Health and National Institute of Deafness and other Communicative Disorders (NIH-NIDCD) R01 DC 01150 during the conduct of the study.
Rathouz	Paul Rathouz is employed at the University of Texas Austin, he receives research funding from the National Institutes of Health. He has no financial or non-financial relationships to disclose.
Ravi	Shravan Ravi is an undergraduate student at the University of Texas at Austin under the supervision of Dr. Wang. He has no financial relationship to disclose.
Redford	Melissa Redford is a Professor and Department Head of Linguistics at the University of Oregon. Dr. Redford's research program is designed to further a developmentally sensitive theory of spoken language production; one where the representations and processes relevant to speaking are understood to result from language acquisition that is shaped by social-interactive successes, the development of executive functioning (i.e., cognition pertaining to sequencing and planning), and the development of speech motor control. Her current empirical work focuses on the development of articulatory timing skills, the relationship between phrase-level representations and planning processes, and the coordination of language and breathing during speaking. Overall, Dr. Redford's research is designed to challenge existing theories of spoken language acquisition and production. One goal is to argue that psychologically-plausible linguistic representations are developmentally structured and so may bear little semblance to those proposed for language description. Another is to provide a biologically sensible framework for advancing empirical work on normal and disordered spoken language. She has no financial or nonfinancial relationships to disclose.

Reeman	Reeman is a PhD Candidate at the University of Toronto. She has no financial and non-financial relationships to disclose.
Reilly	Kevin Reilly is employed by the University of Tennessee and has no relevant financial or nonfinancial benefit related to this presentation. He has no nonfinancial relationships to disclose.
Richardson	Dr. Jessica Richardson is employed by the Department of Speech and Hearing Sciences at the University of New Mexico, Albuquerque, NM. She received a Women in STEM Research Seed Award from the University of New Mexico for this project. She has no other financial or non-financial disclosures related to this project.
Robin	Donald Robin is employed by the University of New Hampshire, Durham NH. He has no nonfinancial relationships to disclose.
Roesler	Mr. Oliver Roesler is a research scientist at Modality.AI, Inc. and draws salary and owns shares from the company. He has no non-financial relationships to disclose.
Rohl	Ms. Andrea Rohl is employed by University of Iowa Hospitals and Clinics and has no relevant financial or nonfinancial benefit related to this presentation. She has no nonfinancial relationships to disclose.
Rong	Panying Rong has no financial or nonfinancial relationships to disclose.
Rowe	Hannah Rowe is employed by the MGH Institute of Health Professions and receives partial salary support from an NIH grant related to this project. She has no other relevant financial or non-financial relationships to disclose.
Rusiewicz	Dr. Heather Leavy Rusiewicz is employed by Duquesne University in Pittsburgh, PA. She has no nonfinancial relationships to disclose. This project was supported by a Duquesne University Faculty Development Grant.
Sake	Hannah Sake is employed by the University of Wisconsin-Whitewater and has no nonfinancial relationships to disclose.
Samlan	Dr. Robin Samlan is an employee at the University of Arizona. She has no financial relationship to disclose.
Schalling	Ellika Schalling is employed as a professor at Uppsala University with a clinical affiliation at Uppsala University Hospital. She has no financial or nonfinancial relationships to disclose.
Scheier	Ms. Scheier is employed by Massachusetts General Hospital. She has no financial or nonfinancial relationships to disclose.
Schölderle	Dr. Theresa Schölderle is employed by the Ludwig-Maximilians-University in Munich, Germany, and received a research grant from the German Research Foundation. She has no nonfinancial relationships to disclose.
Seaver	K. Seaver has no relevant or material financial conflicts of interests to disclose.
Sebkhi	Dr. Nordine Sebkhi is an employee at the Georgia Institute of Technology and a postdoc with Dr. Inan. He has no financial relationship to disclose.
Senthinathan	Anita Senthinathan was a doctoral candidate at Western University associated with the Speech Movement Disorders Lab during the completion of this work. She is currently an assistant professor in the Department of Speech-Language Pathology at SUNY Buffalo State. She obtains no financial or nonfinancial benefit related to this presentation, and has no nonfinancial relationships to disclose.
Shahin	Mr. Shahin is a PhD candidate at The University of New South Wales. He has no nonfinancial relationships to disclose.
Shiller	Dr. Douglas M. Shiller is an associate professor in the School of Speech-Language Pathology and Audiology at the Université de Montréal. He is employed by Université de Montréal and has no relevant financial or nonfinancial benefit related to this presentation.
Sidtis	Professors Sidtis and Van Lancker Sidtis received funding from NIDCD for this work. There are no other financial or non-financial relationships to disclose.
Simmatis	Dr. Leif Simmatis has no conflicts of interest to disclose.
Simpkin	Andrew Simpkin is employed by NUI Galway and has no relevant financial or nonfinancial benefit related to this presentation. He has no nonfinancial relationships to disclose.

Smarzinski	Morgan Smarzinski is employed by the University of Wisconsin-Whitewater and has no nonfinancial relationships to disclose.
Smith	Dr. Smith is a former doctoral student at Boston University. He has no non-financial relationships to disclose.
Snyder	Ms. Snyder is a research associate at Purdue University. She owns shares in SpeechVive, Inc, the company that manufactures and sells the SpeechVive device. She has no non-financial relationships to disclose.
Soriano	Jennifer Soriano is a graduate student at the University of Wisconsin - Madison, she receives research funding from the National Institutes of Health. She has no financial or non-financial relationships to disclose.
Speights Atkins	Marisha Speights Atkins is employed by Northwestern University, received a research grant from Auburn University. She has no nonfinancial relationship to disclose.
Spencer	Dr. Spencer is employed by the University of Washington and receives royalties for the Medical SLP book series. She has no non-financial relationships to disclose.
Spielman	Jennifer Spielman has been a paid consultant for LSVT Global since 2012. She currently receives consulting fees for research and training projects. She has a preference for the LSVT LOUD treatment protocol in her clinical practice.
Spremulli	Ms. Spremulli is the owner of Voice Aerobics, LLC, a company providing speech-language pathology services to adults in Florida. She has no non-financial relationships to disclose.
Sridhar	Ms. Shreya Sridhar is an undergraduate student at Purdue University. She owns shares from Modality.AI. She receives pay from two part-time jobs, as a wellness coach and a barista. She volunteers at a senior residence center, but has no other non-financial relationships to disclose.
Stender	Elizabeth Stender is a master's student at Teachers College, Columbia University, and has no relevant financial or non-financial benefits to disclose related to the presentation.
Stepp	Dr. Cara Stepp is employed by Boston University, directs the Stepp Lab for Sensorimotor Rehabilitation Engineering in the Department of Speech, Language, and Hearing Sciences, and received research grants from the National Institute on Deafness and Other Communication Disorders (DC016270 and DC013017) that supported this study. She has no nonfinancial relationships to disclose.
Steurer	Hanna Steurer is a doctoral student at Karolinska Institute and a speech-language pathologist at Stockholms Sjukhem. She has no financial or nonfinancial relationships to disclose.
Stierwalt	Dr. Julie Stierwalt is employed by Mayo Clinic where she is a salaried employee. A portion of her salary is covered by grants from the National Institutes of Health. She has no non-financial relationships to disclose.
Stipancic	Dr. Kaila Stipancic is employed by the University at Buffalo as a postdoctoral research associate and has no relevant financial or nonfinancial benefit related to this presentation. She has no nonfinancial relationships to disclose.
Stoeckel	Dr. Ruth Stoeckel is retired from the Mayo Clinic. She receives a consultant fee through a research grant from NIDCD (R01 DC017768; PI: Maas). She also serves on the Professional Advisory Council of Apraxia Kids. She has no other financial or nonfinancial relationships to disclose relevant to this presentation.
Story	Brad H. Story, Ph.D., is employed by The University of Arizona. Current development of the computational model is funded by a Galileo Circle Fellows Grant from the College of Science at The University of Arizona. Other research is funded by an National Institutes of Health subaward via the University of Utah. He has no relevant nonfinancial relationships to disclose.
Stump	Allie Stump is a master's student at Teachers College, Columbia University, and has no relevant financial or non-financial benefits to disclose related to the presentation.
Suendermann-Oeft	Dr. David Suendermann-Oeft is the Chief Executive Officer at Modality.AI, Inc., and draws salary and owns shares from the company.
Suthar	Kerul Suthar is a PhD student in Dr. He's lab. She has no nonfinancial relationship to disclose.

Szalay	Dr. Szalay is employed by The University of Sydney, funded by the research grant Speech recognition adaptation for low resource populations from the Australian Research council. She has no nonfinancial relationships to disclose.
Taati	Dr. Babak Taati has no conflicts of interest to disclose.
Taati	Niyousha Taati has no conflicts of interest to disclose.
Tager-Flusberg	Dr. Tager-Flusberg is employed by Boston University and currently holds research grants from the National Institutes of Health (P50 DC 18006; R01 DC 10290; P01 HD 64653), the Department of Defense (AR1701289), and Simons Foundation Autism Research Initiative (#655054). She has no financial relationships to disclose.
Talkar	Tanya Talkar is a student at Harvard University and MIT Lincoln Laboratory under a training grant from the National Institute of Health. She has no nonfinancial relationships to disclose.
Tallman	Sarah Tallman has no financial or nonfinancial relationships to disclose.
Tanchip	Chelsea Tanchip has no conflicts of interest to disclose.
Tang	Dr. Ding-lan Tang is employed by the University of Wisconsin–Madison and has no relevant financial or nonfinancial benefit related to her presentation. She has no nonfinancial relationships to disclose.
Tardif	Monique Tardif, a research fellow employed by Stepp Lab for Sensorimotor Rehabilitation Engineering, Department of Speech, Language, and Hearing Sciences, Boston University has no financial/non-financial relationships to disclose.
Teplansky	Kristin Teplansky is a PhD student at the University of Texas at Austin under the supervision of Dr. Wang. She has no financial relationship to disclose.
Terband	Dr. Hayo Terband is employed by Utrecht University, and has no relevant financial or nonfinancial benefit related to his presentation. He has no nonfinancial relationships to disclose / He is co-author of the Computer Articulation Instrument (CAI).
Thomas	Dr Thomas is a Lecturer at The University of Sydney. She has received funding from Apraxia-Kids and the Once Upon a Time Foundation. She has no nonfinancial relationships to disclose.
Thompson	Austin Thompson is a doctoral student and graduate research assistant at Florida State University and has no relevant non-financial benefit related to this presentation. The proposed study was funded in part by the ASHFoundation New Century Scholars scholarship awarded to Austin Thompson.
Thompson	Dylan Thompson is employed hourly in the Neurogenic Communication Disorders Lab at the University of Missouri - Columbia.
Tian	Dr. Xing Tian is an assistant professor in the Arts and Sciences Division at New York University Shanghai. He is employed by NYU Shanghai and has no relevant financial or nonfinancial benefit related to this presentation.
Tjaden	Dr. Kris Tjaden is employed by the University at Buffalo as a professor and the Associate Dean for Natural Sciences and Mathematics. She has no relevant financial or nonfinancial benefit related to this presentation. She has no nonfinancial relationships to disclose. This research was supported by the National Institutes of Health (R01DC004689, PI: Tjaden).
Tomassi	Nicole Tomassi is a graduate research assistant in the Graduate Program for Neuroscience at Boston University, employed by the Stepp Lab for Sensorimotor Rehabilitation Engineering in the Department of Speech, Language, and Hearing Sciences and has no financial/nonfinancial relationships to disclose.
Treleaven	Dr. Treleaven is employed by the University of Michigan. She has no financial relationships to disclose.
Troche	Dr. Troche is employed by Teachers College Columbia University and has no financial relationships to disclose.
Truong	Justin Truong has no conflicts of interest to disclose.
Utianski	Dr. Rene Utianski is employed by Mayo Clinic where she is a salaried employee. A portion of her salary is covered by grants from the National Institutes of Health. She has no non-financial relationships to disclose.



Valentine	Hannah Valentine, M.S., CCC-SLP, is a doctoral student in the Communicative Sciences and Disorders Department at New York University. She has no financial relationships to disclose.
van Brenk	Dr. Frits van Brenk is employed by Utrecht University and the University at Buffalo, and has no financial or nonfinancial benefit related to his presentation.
van de Zande	Anne Marie van de Zande, MS. is employed by Rijndam, and has no relevant financial or nonfinancial benefit related to his presentation. He has no nonfinancial relationships to disclose.
van Haaften	Dr. Leenke van Haaften is employed by RadboudUMC, and has no relevant financial or nonfinancial benefit related to his presentation. He has no nonfinancial relationships to disclose / She is co-author of the Computer Articulation Instrument (CAI).
van Lieshout	Professor Pascal van Lieshout: Australian research council grant dp1702407. No nonfinancial relations to disclose.
Velleman	Shelley Velleman is a professor at the University of Vermont. She is a member of the Apraxia-Kids Professional Advisory Board and the Duplication Cares Medical Advisory Board. She has recently received research funds from Apraxia-Kids and the Once Upon a Time Foundation. She has no other financial or nonfinancial disclosures.
Voon	Tiffany Voon, an undergraduate research assistant employed by Stepp Lab for Sensorimotor Rehabilitation Engineering, Department of Speech, Language, and Hearing Sciences, Boston University has no financial/non-financial relationships to disclose.
Vuolo	Dr. Vuolo is employed by The Ohio State University. Portions of this project were supported by the Advancing Academic-Research Careers award from the American Speech-Language Hearing Association. She has no nonfinancial relationships to disclose.
Wambaugh	Dr. Wambaugh is employed at the University of Utah. She receives salary for conducting research. She has no nonfinancial relationships to disclose.
Wang	Dr. Jun Wang is an employee at the University of Texas at Austin. He received an award from NIH (R01DC016621) to support this research. He has no financial relationship to disclose.
Wang	Emily W. Wang, M.A., CCC-SLP, is a doctoral student and adjunct lecturer in the Department of Communicative Sciences and Disorders at New York University. She has no non-financial relationships to disclose.
Wang	Hantao Wang is a PhD student in the Department of Speech and Hearing Sciences at the University of Washington and has no relevant financial or nonfinancial benefit related to his presentation. He has no nonfinancial relationships to disclose.
Watkins	Prof. Kate Watkins is a Professor at the Experimental Psychology Department, University of Oxford. She has no financial or non-financial relationships to disclose.
Weerathunge	Hasini Weerathunge, a graduate research assistant employed by Stepp Lab for Sensorimotor Rehabilitation Engineering, Department of Speech, Language, and Hearing Sciences, Boston University has no financial/non-financial relationships to disclose.
Whitfield	Jason A. Whitfield, Ph.D., is employed by Bowling Green State University and received an internal research grant from Bowling Green State University. He has no nonfinancial relationships to disclose.
Wiltshire	Dr. Wiltshire is a LMU fellow at the Institute for Phonetics and Speech Processing, Ludwig-Maximilians-University, Munich and is funded by the European Union's Framework Programme for Research and Innovation (Horizon, 2020) under the Marie Skłodowska-Curie Grant and LMUExcellent from the Excellence Strategy of the German Federal Government. She has no financial or non-financial relationships to disclose.
Wisler	Dr. Alan Wisler is employed by Utah State University and has no relevant financial or nonfinancial benefit related to this presentation to disclose.
Wong	Eddy CH Wong is a PhD student at the Hong Kong Polytechnic University. He has no financial or nonfinancial disclosures.
Wong	Min Ney Wong is an assistant professor at the Hong Kong Polytechnic University. She declares no conflicts of interest.
Wray	Dr. Hampton Wray is employed by the University of Pittsburgh, received grants from the National Institute on Deafness and Other Communication Disorders and the Blue Cross Blue Shield of

	Michigan Foundation, serves as an Editorial Board Member for the ASHA Journal of Speech, Language, & Hearing Research (JSLHR). She has no financial relationships to disclose.
Wu	Jingwei Wu is employed by Temple University. He is Co-Investigator on a research grant from NIDCD (R01 DC017768; PI: Maas). He has no other financial or nonfinancial relationships to disclose relevant to this presentation.
Wulf	Professor Gabriele Wulf joined the Department of Kinesiology and Nutrition Sciences at the University of Nevada in 2001. Wulf's research focuses on factors that can enhance motor skill learning, including the performer's focus of attention and motivational variables such as learner autonomy and performance expectancies. In 2016, her work led to the publication of the OPTIMAL theory of motor learning. Wulf has received various awards for her research, including the Barrick Distinguished Scholar Award and the Distinguished Scholar Award of the North American Society for the Psychology of Sport and Physical Activity (NASPSPA). Wulf was president of NASPSPA from 2014-2015. She served as the founding editor of two journals, Frontiers in Movement Science and Sport Psychology (2010-2012) and Journal of Motor Learning and Development (2012-2015). Wulf is a fellow of the National Academy of Kinesiology. She has no non-financial relationships to disclose.
Wynn	Camille Wynn is employed by Utah State University and has received a research fellowship from the National Institutes of Health. She has no non-financial relationships to disclose.
Xu	Dr. Wen Xu is an employee at Texas Women's University. She has no financial relationship to disclose.
Young	Natalie Young is an undergraduate at the University of Texas at Austin under the supervision with Dr. Wang. She has not financial relationship to disclose.
Yunusova	Dr. Yunusova is employed by University of Toronto and received a research grant from the National Institutes of Health for this research. She has no financial and non-financial relationships to disclose.
Zañartu	Dr. Matías Zañartu, the principal investigator of the Voice Production Lab, Department of Electronic Engineering, Universidad Técnica Federico Santa María., Valparaíso, Chile, has no financial/nonfinancial relationships to disclose.
Zarnott	Kathleen Zarnott has no relevant financial or nonfinancial benefit related to this presentation. She has no nonfinancial relationships to disclose.
Zezas	Ms. Zezas is a student at the University of Florida. She has no non-financial relationships to disclose.
Zinman	Dr Zinman has no relevant or material financial conflicts of interests to disclose.
Zowj	Farnaz Yousefi Zowj is a PhD student in Dr. He's lab. She has no nonfinancial relationship to disclose.