

Erin M. Ingvalson

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EDUCATION

- 2008 Ph.D., Psychology, Carnegie Mellon University and the Center for the Neural Basis of Cognition
- 2004 M.S., Psychology, Carnegie Mellon University
- 2002 B.A., *summa cum laude*, University of Notre Dame

PROFESSIONAL EXPERIENCE

- 2019-present Associate Professor
School of Communication Science and Disorders
Florida State University
- 2014-Present Adjunct Assistant Professor
Otolaryngology – Head and Neck Surgery
Feinberg School of Medicine
Northwestern University
- 2014-2019 Assistant Professor
School of Communication Science and Disorders
Florida State University
- 2013-2014 Research Assistant Professor
Otolaryngology – Head and Neck Surgery
Feinberg School of Medicine
Northwestern University
- 2010-2013 Postdoctoral Fellow
Communication Sciences and Disorders
Northwestern University
- 2009 Lecturer
Department of Psychology
The Catholic University of America
- 2008 Adjunct Faculty
Department of Psychology
Carnegie Mellon University

ONGOING GRANT SUPPORT

Institute of Education Sciences (R324A160193). Training-Induced Language and Literacy Improvement in Children with Cochlear Implants (Role: PI). \$3,499,939. July 2016 – June 2020.

PAST GRANT SUPPORT

Florida State University, Committee on Faculty Research Support. Working Memory Load in Older Adults' Speech Learning (Role: PI). \$14,000. May 2016 – August 2016

Florida State University, First Year Assistant Professor Award. Mechanisms of Speech Learning in Older Adults (Role: PI). \$20,000. May 2015 – August 2015

HONORS AND AWARDS

Florida State University School of Communication Science and Disorders Outstanding Faculty Research Award, 2019

Named a “Woman Leading the Research Charge” by Florida State University’s Office of Research, 2018

Florida State University School of Communication Science and Disorders Outstanding Faculty Research Award, 2017

Florida State University School of Communication Science and Disorders Undergraduate Teaching Award, 2016

National Science Foundation Graduate Research Fellowship Honorable Mention, 2003

University of Notre Dame Psychology Department Award for Research Excellence, 2002

University of Notre Dame Undergraduate Research Opportunity Grant, 2001

JOURNAL PUBLICATIONS

(*denotes student author)

Morris, R. J., **Ingvalson, E. M.**, Kaschak, M. P., & Smith, A. N. (in press). The effect of menstrual cycle phase on auditory perception. *PLoS One*.

Lansford, K. L., Lhursen, S., **Ingvalson, E. M.**, & Borrie, S. A. (2018). Older adults adapt to dysarthric speech. *American Journal of Speech-Language Pathology*, 27, 91-98.

Feng, G., **Ingvalson, E. M.** Grieco-Calub, T. M., Roberts, M. Ryan, M. E., Birmingham, P. Burrowes, D., Young, N. M. & Wong, P. C. M. (2018). Neural preservation underlies speech improvement from auditory deprivation in young cochlear implant recipients. *Proceedings of the National Academy of Sciences*. doi: 10.1073/pnas.1717603115

Ingvalson, E. M., Lansford, K. L., *Fedorova, V. & *Fernandez, G. (2017). Receptive vocabulary, cognitive flexibility, and inhibitory control differentially predict older and younger adults' success perceiving speech by talkers with dysarthria. *Journal of Speech, Language, and Hearing Research*, 60, 3632-3641.

Ingvalson, E. M., Lansford, K. L., *Fedorova, V., & *Fernandez, G. (2017). Cognitive factors as predictors of accented speech perception for younger and older adults. *Journal of the Acoustical Society of the America*, 141(6), 4652-4659.

Ingvalson, E. M., Lansford, K. L. *Fedorova, V., & *Fernandez, G. (2017). Listeners' attitudes toward accented talkers uniquely predicts accented speech perception. *Journal of the Acoustical Society of America*, 141(3), EL234-EL238.

Ingvalson, E. M., *Nowicki, C., *Zhao, A., & Wong, P. C. M. (2017). Non-native speech learning in older adulthood. *Frontiers in Auditory Cognitive Neuroscience*. doi: 10.3389/fpsyg.2017.00148

Ingvalson, E. M., Dhar, S., Wong, P. C. M., & Liu, H. (2015). Working memory training to improve speech perception in noise across languages. *Journal of the Acoustical Society of America*, 137(6), 3477-3486.

Ingvalson, E. M., Young, N. M., & Wong, P. C. M. (2014). Auditory-cognitive training improves language performance in prelingually deafened cochlear implant recipients. *International Journal of Pediatric Otorhinolaryngology*, 78(10), 1624-1631.

- Ingvalson, E. M., Ettlinger, M., & Wong, P. C. M.** (2014). Bilingual speech perception and learning: A review of recent trends. *International Journal of Bilingualism*, 18(1), 34-46.
- Ingvalson, E. M., Barr, A., & Wong, P. C. M.** (2013). Poorer phonetic perceivers show greater benefit in phonetic-phonological speech learning. *Journal of Speech, Language, and Hearing Research*, 56, 1045-1050.
- Ingvalson, E. M. & Wong, P. C. M.** (2013). Training to improve language outcomes in cochlear implant recipients. *Frontiers in Psychology*, 4(263). doi: 10.3389/fpsyg.2013.00263
- Ingvalson, E. M., Lee, B., Fiebig, P., & Wong, P. C. M.** (2013). The effects of short-term computerized speech-in-noise training on post-lingually deafened adult cochlear implant recipients. *Journal of Speech, Language, and Hearing Research*, 56, 81-88.
- Ingvalson, E. M., Holt, L. L., & McClelland, J. L.** (2012). Training native Japanese listeners to differentiate /r-l/ on the basis of F3 onset frequency. *Bilingualism: Language and Cognition*, 15(2), 255-274.
- Ingvalson, E. M., McClelland, J. L., & Holt, L. L.** (2011). Predicting native English-like performance by native Japanese speakers. *Journal of Phonetics*, 39(4), 571-584.
- Ingvalson, E. M. & Wenger, M. J.** (2005). A strong test of the dual mode hypothesis. *Perception & Psychophysics*, 67, 14-35.
- Wenger, M. J. & **Ingvalson, E. M.** (2003). Preserving informational separability and violating decisional separability in facial perception and recognition. *Journal of Experimental Psychology: Learning, Memory, and Cognition*, 29, 1106-1118.
- Wenger, M. J. & **Ingvalson, E. M.** (2002). A decisional component of holistic encoding. *Journal of Experimental Psychology: Learning, Memory, and Cognition*, 28, 872-892.

CONFERENCE PROCEEDINGS AND BOOK CHAPTERS

- Ingvalson, E. M. & Wong, P. C. M.** (in press). Individual differences in lexical tone learning. In F.-M. Tsao & P. Li (Eds.) *Speech learning, perception, and production: Multidisciplinary approaches in Chinese language research*. Philadelphia, PA: Springer.
- Ingvalson, E. M. & Lansford, K. L.** (2018). Older adults' perception of multiple speech types predicted by common cognitive factors. *Proceedings of the Meeting on Universal Acoustical Communication*. Paper number 1865190.
- Wenger, M. J., **Ingvalson, E. M.**, & Rhoten, S. E. (2017). The Continuing Evolution of Systems Factorial Theory: Connecting Theory with Behavioral and Neural Data. In D. R. Little & N. Altieri, M. Fific, & C.-T. Yang (Eds.) *Systems factorial technology: A theory driven methodology for the identification of perceptual and cognitive mechanisms* (pp. 335-350). London: Academic Press.
- Ingvalson, E. M. & Wong, P. C. M.** (2016). Auditory training: Predictors of success and optimal training paradigms. In N. M. Young & K. I. Kirk (Eds.), *Cochlear implants in children: Learning and the brain* (pp. 293-298). Philadelphia, PA: Springer.
- Ingvalson, E. M. & *Stoimenoff, T. L.** (2015). Greater benefit for familiar talkers under cognitive load. *Proceedings of the XVIII Meeting of the International Congress of the Phonetic Sciences*. ISBN 978-0-85261-941-4. Paper number 177.
- Ingvalson, E. M., & Holt, L. L.** (2011). Perception-production relationship for /r-l/ by native Japanese speakers. *Proceedings of the XVII Meeting of the International Congress of the Phonetic Sciences*, 938-941.

INVITED PRESENTATIONS

- Ingvalson, E. M.** (2019, July). *Auditory-cognitive training to optimize post-implant outcomes*. Talk to be presented to the biannual Conference on Implantable Auditory Prostheses, Lake Tahoe, CA.
- Ingvalson, E. M.** (2018, December). *Learning to hear: How training impacts listening to difficult sounds*. Talk presented to the Florida State University Faculty Luncheon Series, Tallahassee, FL.
- Ingvalson, E. M. & Lansford, K. L.** (2018, October). *Older adults' perception of multiple speech types predicted by common cognitive factors*. Talk presented at the Meeting on Universal Acoustical Communication, Sendai, Japan.
- Ingvalson, E. M.** (2016, September). *Relative benefits of computer games and exercise for maintaining cognitive health in older adulthood*. Talk presented to the St. John's Episcopal Elders, Tallahassee, FL.
- Ingvalson, E. M.** (2014, April). *Understanding individual differences in learning to optimize cochlear implant outcomes*. Talk presented to the Deaf and Hard of Hearing/Speech Language Pathologist/Early Intervention Network, Chicago, IL.
- Ingvalson, E. M.** (2013, April). *Auditory and cognitive contributions to language outcomes after cochlear implantation*. Talk presented to the Deaf and Hard of Hearing/Speech Language Pathologist Network, Chicago, IL.
- Ingvalson, E. M.** (2010, July). *Language learning in adulthood: Native Japanese speakers and the English /r-l/*. Talk presented to the Army Audiology and Speech Center, Walter Reed Army Medical Center, Washington, DC.
- Ingvalson, E. M.** (2009, June). *Language learning in adulthood: Native Japanese speakers and the English /r-l/*. Talk presented to the Sackler Institute for Developmental Psychobiology, Weill Medical College of Cornell University, New York, NY.
- Ingvalson, E. M.** (2007, February). *English perception and production across length of residency by native Japanese speakers*. Talk presented to the Psychology Department of the University of British Columbia, Vancouver, BC.
- Ingvalson, E. M.** (2007, February). *Research with Japanese-English bilinguals at UBC*. Talk presented to the Mokuyokai Canadian-Japanese Association, Vancouver, BC.
- Ingvalson, E. M.** (2006, February). *Training native Japanese speakers in /r/ and /l/: Focusing on the English cue*. Talk presented to the Psychology Department of the Pennsylvania State University, State College, PA.

PODIUM PRESENTATIONS

- Ingvalson, E. M. & Lansford, K. L.** (2018, November). *Older and younger adult differences in error type when perceiving foreign-accented speech*. Paper presented at the 59th Annual Meeting of the Psychonomic Society, New Orleans, LA.
- Feng, G., Young, N. M., **Ingvalson, E. M.**, Grieco-Calub, T. M., Roberts, M. Y. & Wong, P. C. M. (2017, July). *Morphological neural preservation underlies speech perception improvement in young cochlear implant recipients*. Paper presented at the 15th Symposium on Cochlear Implants in Children, San Francisco, CA.
- Deng, Z., Wong, P. C. M., **Ingvalson, E. M.**, & Young, N. M. (2017, July). *White matter anisotropy in the left anterior superior temporal region predicts speech perception improvement in young cochlear implant recipients*. Paper presented at the 15th Symposium on Cochlear Implants in Children, San Francisco, CA.

- Ingvalson, E. M.,** Lansford, K. L., *Fedorova, V., & *Fernandez, G. (2016, November). *Vocabulary and working memory influences on older and younger adults' perception of accented speech*. Paper presented at the 57th Annual Meeting of the Psychonomic Society, Boston, IL.
- Ingvalson, E. M.,** *Nowicki, C., *Zhong, A., & Wong, P. C. M. (2015, November). *Non-native speech learning in older adulthood*. Paper presented at the 56th Annual Meeting of the Psychonomic Society, Chicago, IL.
- Ingvalson, E. M.,** Young, N. M., & Wong, P. C. M. (2014, December). *Auditory-Cognitive training improves language performance in prelingually deafened cochlear implant recipients*. Paper presented at the 14th Symposium on Cochlear Implants in Children, Nashville, TN.
- Grieco-Calub, T., Young, N. M., **Ingvalson, E. M.,** & Wong, P. C. M. (2014, December). *Structured assessment of nonverbal communication skills in children with hearing loss*. Paper presented at the 14th Symposium on Cochlear Implants in Children, Nashville, TN.
- Ingvalson, E. M.,** Liu, H., Dhar, S., & Wong, P. C. M. (2014, November). *English & Mandarin speakers benefit from working memory training to improve speech perception in noise*. Paper presented at the annual American Speech-Language-Hearing Association Convention, Orlando, FL.
- Ingvalson, E. M.,** Young N. M., & Wong, P. C. M. (2014, June). *Auditory-Cognitive training improves language performance in prelingually deafened cochlear implant recipients*. Paper presented at the 13th International Conference on Cochlear Implants and Other Implantable Auditory Technologies, Munich, Germany.
- Ingvalson, E. M.,** Young, N. M., & Wong, P. C. M. (2013, November). *Auditory-Cognitive training improves language performance in prelingually deafened cochlear implant recipients*. Paper presented at the annual American Speech-Language-Hearing Association Convention, Chicago, IL.
- Ingvalson, E. M.,** & Holt, L. L. (2011). *Perception-production relationship for /r-l/ by native Japanese speakers*. Paper presented at the of the XVII Meeting of the International Congress of the Phonetic Sciences, Hong Kong.
- Ingvalson, E. M.** & Wenger, M. J. (2002, July). *A strong test of the dual mode hypothesis*. Paper presented at the 35th Annual Meeting of the Society for Mathematical Psychology, Oxford, OH.
- Ingvalson, E. M.** & Wenger, M. J. (2002, April). *Determining the role of featural and configural information in face processing*. Paper presented at the 2002 meeting of Buckeye Mental Life, Ohio State University, Columbus, OH.
- Ingvalson, E.M.** & Wenger, M. J. (2000, March). *Mnemonic and decisional components of the holistic processing of faces*. Paper presented at the 2000 meeting of Hoosier Mental Life, University of Notre Dame, Notre Dame, IN.

POSTER PRESENTATIONS

- Lansford, K. L., Borrie, S. A., Lhursen, S., & **Ingvalson, E. M.** (2018, February). *Familiarization effects on intelligibility of dysarthric speech in older listeners with and without hearing loss*. Poster presented at the 10th biennial conference on Motor Speech Disorders, Savannah, GA.

- *Hayes, L. F., *Weiner, J., & **Ingvalson, E. M.** (2017, November). *Dynamic pitch training to improve lexical tone learning in older adults*. Poster presented at the 58th annual meeting of the Psychonomic Society, Vancouver, BC.
- Lhursen, S., Lansford, K. L., Borrie, S. A., **Ingvalson, E. M.**, & Morris, P. (2017, November). *Perceptual learning of dysarthric speech: Age-Related consequences*. Poster presented at the annual American Speech-Language-Hearing Association Convention, Los Angeles, CA.
- Ingvalson, E. M.**, Lansford, K. L., *Fedorova, V., & *Fernandez, G. (2016, December). *Cognitive predictors of older adults' perception of difficult speech*. Poster presented at the 172nd Meeting of the Acoustical Society of America, Honolulu, HI.
- *Bedsole, K. F. & **Ingvalson, E. M.** (2015, November). *High dosages of treatment improve phonological organization*. Poster presented at the annual American Speech-Language-Hearing Association Convention, Denver, CO.
- Morris, R. J., *Smith, A. N., & **Ingvalson, E. M.** (2015, November). *Effect of menstrual phase on dichotic listening*. Poster presented at the 170th Meeting of the Acoustical Society of America, Jacksonville, FL.
- Ingvalson, E. M.** & *Stoimenoff, T. L. (2015, August). *Greater benefit for familiar talkers under cognitive load*. Poster presented at the XVIIIth Congress of the Phonetic Sciences, Glasgow, Scotland.
- Knowles, E. R., **Ingvalson, E. M.**, & Wong, P. C. M. (2014, November). *Common learning mechanisms for language and music grammar acquisition*. Poster presented at the 55th Annual Meeting of the Psychonomic Society, Long Beach, CA.
- Antoniou, M., Wong, P. C. M., **Ingvalson, E. M.**, & Wang, S. (2013, April). *Cognitive contributors to individual differences in speech perception: Implications for sound change actuation*. Poster presented at the Workshop for Sound Change Actuation, Chicago, IL.
- Ingvalson, E. M.** Wong, P. C. M. (2011, November). *Cognitive training of speech-in-noise perception in older adults*. Poster presented at the 52nd Annual Meeting of the Psychonomic Society, Seattle, WA.
- Ingvalson, E. M.**, McClelland, J. L., & Holt, L. L. (2007, November). *Years of exposure to English predicts perception and production of /r/ and /l/ by native speakers of Japanese*. Poster presented at the 48th Annual Meeting of the Psychonomic Society, Long Beach, CA.
- Ingvalson, E. M.**, Holt, L. L., & McClelland, J. L. (2005, July). *Can F3 be used to teach Japanese adults /r/ and /l/?* Poster presented at the 27th Annual Meeting of the Cognitive Science Society, Stresa, Italy.
- Ingvalson, E. M.**, Holt, L. L., & McClelland, J. L. (2003, November). *Generalization in Japanese /r/-/l/ Perception: Shining a Light on the Right Cue*. Poster presented at the 44th Annual Meeting of the Psychonomic Society, Vancouver, BC.
- Wenger, M. J. & **Ingvalson, E. M.** (2000, November). *A decisional component of holistic encoding*. Poster presented at the 41st Annual Meeting of the Psychonomic Society, New Orleans, LA.

MEDIA ATTENTION

- Seay, J. (2018, June). Breakthrough could help children with hearing loss. *VIREs Magazine*.
- Thakar, S. (2018, January). New AI algorithm predicts how well deaf children will learn language. *Radiology Business*.

Wyner, G. (2014, June). How to teach old ears new tricks. *Scientific American Mind*, 25(4).

TEACHING EXPERIENCE

Acquired Communication Disorders, Florida State University (Spring 2019-2020)
Thinking About Language, Florida State University (Spring 2016-2018, Fall 2017-2019)
Developmental Communication Disorders, Florida State University (Fall 2014-2019)
Typical Language Development, Florida State University (Fall 2014-2016)
Healthy Cognitive Aging, Osher Lifelong Learning Institute (Maymester 2016)
Clinical Phonetics, Florida State University (Spring 2015, online)
Scientific Exploration of Communication, Northwestern University (Fall 2011-2013)
Cognitive Psychology, The Catholic University of America (Spring 2009)
Cognitive Research Methods, Carnegie Mellon University (Fall 2008)
Psychology of Language, Carnegie Mellon University (Spring 2008)

FORMAL MENTORING ACTIVITIES

Doctoral Committee Member:

Abigail Delehanty (PhD 2019)

Masters' Research Grants Sponsored:

2017: Lydia Hayes, \$500

Undergraduate Research Grants Sponsored:

2014: Shanshan Hu, \$3,000; Trevor Stoimenoff, \$3,000

2016: Alexandra Reichard, \$750

Undergraduate Honors Thesis Committees Chaired:

2016: Alexandra Reichard

2017: Lydia Hayes, Jessica Weiner

2019: Harper Bolt

2020: Victoria Bel, Dylan Spears

Undergraduate Research Assistants

2011: Feifei Huang, Nicole Lomotan, Anthony Tsao

2012: Shanshan Hu, Feifei Huang, Mark Plantz, Anthony Tsao, Audrey Zong

2013: Shanshan Hu, Casandra Nowicki, Mark Plantz

2014: Hayley Bolt, Lydia Hayes, Shanshan Hu, Casandra Nowicki, Mark Plantz, Trevor Stoimenoff, Jessica Weiner

2015: Samantha Arvin, Hayley Bolt, Hannah Bolt, Cathryn Dobrowski, Lydia Hayes, Valeriya Fedorova, Gabriel Fernandez, Alexandra Reichard, Taylor Touchton, Jessica Weiner

2016: Samantha Arvin, Hannah Bolt, Victoria Farinas, Lydia Hayes, Taylor Touchton, Jessica Weiner,

2017: Harper Bolt, Paola Delgado, Nicole Hinz, Niko Momen, Taylor Nye, Lexi Ward, Morgan Wareing

2018: Harper Bolt, Teresa DeNiro, Malia Hart, Emily Monashkin, Juliette Murphy

2019: Victoria Bell, Samantha Jenkins, Paige Moser, Dylan Spears

High School Interns (Scientific Professionals as Resource Knowledge Program)

2013: Vijay Magati

PROFESSIONAL ACTIVITIES

Reviewer of grant proposals

- National Institutes of Health LCOM panel (2017)
- National Science Foundation (2012)
- American Speech-Language-Hearing Association (2016-2019)
- Research Grants Council of Hong Kong (2015, 2018-2019)

Ad hoc reviewer of manuscripts

- *American Journal of Speech-Language Pathology*
- *Attention, Perception, & Psychophysics*
- *Bilingualism: Language and Cognition*
- *Brain*
- *Brain and Language*
- *Frontiers in Language Sciences*
- *International Journal of Audiology*
- *International Journal of Language and Communication Disorders*
- *Journal of Experimental Psychology: Learning, Memory, and Cognition*
- *Journal of Phonetics*
- *Journal of the Acoustical Society of America*
- *Language and Speech*
- *Language Learning*
- *Laryngoscope*
- *Modern Language Journal*
- *PLoS One*
- *Research in Developmental Disabilities*
- *Second Language Research*

PROFESSIONAL MEMBERSHIPS

Acoustical Society of America, Psychonomic Society

INSTITUTIONAL SERVICE

Grant Reviewer, Florida State University Council on Research and Creativity, 2017-2019

College Academic Affairs Committee, 2015 - 2017

Chair, Student Review Committee, 2017, 2018

Faculty Evaluation Committee (elected position), 2014-2019

Admissions Appeal Committee, 2017-2019

Strategic Plan Committee, 2015

Scholarships and Awards Committee, 2014 - 2018

Doctoral Admissions and Affairs Committee, 2014 - 2019