

CURRICULUM VITA

RUTH LITOVSKY

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Current Positions, University of Wisconsin Madison

Professor, Department of Communication Sciences & Disorders

Professor with Joint appointment in Department of Surgery, Division of Otolaryngology

Research Areas

- Auditory Neuroscience
- Developmental Sensation and Perception
- Implantable Auditory Prostheses
- Psychoacoustics
- Engineering and Signal Processing in Acoustics and Cochlear Implants
- Aging, Cognitive Impairment and Auditory Processing in Alzheimer's Disease
- Functional Brain Mapping and Neuroimaging using Near Infrared Spectroscopy
- Cognitive Load and Listening Effort using Pupillometry

Education

Washington University, St. Louis, MO	B.A.	1987	Psychology
Washington University, St. Louis, MO	M.A.	1988	Psychology (Neuropsychology)
University of Massachusetts-Amherst	Ph.D.	1991	Developmental Psychology
University of Wisconsin-Madison	Postdoctoral Fellow	1991-1994	Neurophysiology

Positions and Employment

1983-1986	Research Assistant, Infant touch lab, Washington University, St. Louis MO
1986-1987	Research Assistant, Vision physiology lab, Washington University, St. Louis MO
1987-1991	Graduate Assistant, Dept. of Psychology, University of Massachusetts, Amherst MA
1991-1994	Post-doctoral fellow, Individual NIH fellowship. University of Wisconsin, Madison WI
1996-2001	Research Associate, MIT and Massachusetts Eye and Ear Infirmary-EPL, Boston MA
1998-2000	Lecturer in Biological Sciences, Harvard University, Cambridge MA
1995-2001	Senior Research Associate, Boston University, Boston MA
2001-2006	Assistant Professor, Dept. of Communicative Disorders, University of Wisconsin, Madison, WI
2006-2010	Associate Professor, Dept. of Communicative Disorders, University of Wisconsin, Madison, WI
2010-present	Professor, Dept. of Communicative Disorders, University of Wisconsin, Madison, WI
2010-present	Professor, Dept. of Surgery, Division of Otolaryngology, University of Wisconsin, Madison WI
2005-present	Affiliation in Psychology, Neuro-engineering Training Program, Neuroscience Training Program.
2014-present	Visiting Professor, University of Oslo, Norway, Department of Special Needs Education, Faculty of Education.
2015-present	Visiting Professor, Medical Bionics Department, Faculty of Medicine, The University of Melbourne, 2015.

Professional Activities, Honors, Awards

- NIMH training fellowship, University of Massachusetts, Amherst MA, 1987-1988.
- NIH National Research Service Award (F32 individual post-doctoral fellowship), 1992-1994.
- Vilas Associate Fellowship, University of Wisconsin, 2005-2007.
- Associate Editor, Journal of the Acoustical Society of America, 2006-present.
- Associate Editor, American Journal of Audiology, 2008-2012.
- Associate Editor, Journal of the Assoc. Research in Otolaryngology, 2013-present
- NIH-NIDCD, Member, Communicative Disorders Review Committee, 2006-2010.
- R03 Review panel: Member, 2003; Chair 2005 & 2006, NIH-NIDCD.

- AUD study section, ad-hoc from October 2004-present.
- NIH-NIDCD, Member, Special emphasis panel (RFA on bilateral cochlear implants) reviewer, October 2004.
- Elected member, Acoustical Society of America P&P Technical Committee (2001-2004; 2007-2010; 2013-).
- Organizer/chair: Invited symposium sessions at the 1999, 2001 & 2005 meetings of the Acoustical Society of America; 2012 meeting of the Acoustical Society of America in Hong Kong; 1998 and 2011 meetings of the Association for Research in Otolaryngology.
- Steering Committee, Conference on Implantable Auditory Prostheses, 2007, 2009, 2013, 2015.
- Organizer & Chair, Annual Midwest Cochlear Implant Conference, Madison WI.
- Elected Co-Chair, 2011 Conference on Implantable Auditory Prostheses.
- Elected Fellow, Acoustical Society of America, 2009.
- Elected, Councilor, Association for Research in Otolaryngology (2011-2014).
- Government Relations Committee, Association for Research in Otolaryngology (2005-2008).
- External Relations Committee, Association for Research in Otolaryngology (2012-2014).
- Program Committee, Association for Research in Otolaryngology (2011-present).
- Chair, Program Committee, Association for Research in Otolaryngology (2014-present).
- Animal Research Committee, Association for Research in Otolaryngology (2001-2004; 2013-present).
- Reviewer: J. Acoust. Soc., Amer.; J. Speech Language and Hearing Research; J. Neurophysiology; Ear & Hearing; Hearing Research; Perception & Psychophysics; Acustica; Int. J. Audiology; IEEE; Am. J. Audiology; J. Assoc. Res. Otolaryngology; Nature Neuroscience; Perception & Psychophysics; Trends in Neuroscience; Arch. Otolaryngol.
- Fulbright U.S. Senior Scholar, East Asia Pacific, 2014-2015.
- Elected, Auditory System Gordon Research Conference Vice-chair in 2018 and Chair in 2020.
- Presidential Citation for Extraordinary Leadership, Association for Research in Otolaryngology, 2018.
- Foundation Pour L'Audition, Committee on scientific prizes of excellence, 2018-present
- Kelleter Mid-Career Award, University of Wisconsin Madison, 2018.

Highlights of University of Wisconsin-Madison, recent leadership

- Elected, Chair of Committee on Women at the University (2011-2013).
- Elected, Biological Divisional Executive Committee (2013-2016).
- Elected, University Committee (Executive committee of the faculty; 2015-present).
- Elected, Academic Planning Council, College of Letters & Sciences (2017-present).
- Faculty chair, Ad-Hoc Diversity Planning Committee (2013-2015); *diversityplan2013.wisc.edu*
- Committee on Committees (2015-present).
- Tenure and termination committee (2015-2016).
- Search Committee, UW-Madison Chief Human Resources Officer (2016).
- Director, Doctorate in Audiology Program (2011-2014).
- Director, Annual Midwest Conference on Cochlear Implants – Waisman Center (2010-present).
- Director, Annual 'Day with Experts on Cochlear Implants – Waisman Center (2011-present).
- Director, Undergraduate Studies, Department of Communication Sciences and Disorders (2016-present).
- Chair, Search Committee for Faculty Hire, Dept. Communication Sciences and Disorders (2016-2017).

Patents

Litovsky, R.Y. (2003). Method and system for rapid and reliable testing of speech intelligibility in children. U.S. Patent No. 6,584,440.

Major Peer-reviewed scientific journal publications

1. Litovsky, R.Y. (1990). Stimulus differentiation by preterm infants can guide caregivers. *Pre and Perinatal Psychology Journal*, 5(1), 41-67.
2. Freyman RL, Clifton RK, Litovsky RY. (1991). Dynamic processes in the precedence effect. *J Acoust Soc Am.* 90:874-84.
3. Clifton RK, Rochat P, Litovsky RY, Perris EE. (1991). Object representation guides infants' reaching in the dark. *J Exp Psychol Hum Percept Perform.* 17:323-9.

4. Litovsky, R. and Clifton, R. (1992). Use of sound-pressure level in auditory distance discrimination by 6-month old infants and adults. *J. Acoust. Soc. Amer.*, 92(2), 794-802.
5. Litovsky, R. and Macmillan, N. (1994). Minimum auditory angle for clicks with simulated echoes: Effects of azimuth and standard. *J. Acoust. Soc. Amer.*, 96(2), 752-758.
6. Clifton, R., Freyman, R., Litovsky, R. and McCall, D. (1994). Listeners' expectations about echoes can raise or lower *echo threshold*. *J. Acoust. Soc. Amer.*, 95(5), 1525-1533.
7. Litovsky, R. (1997). Developmental changes in the precedence effect: Estimates of Minimal Audible Angle. *J. Acoust. Soc. Amer.*, 102, 1739-1745.
8. Litovsky, R.Y., Yin, T.C.T., Rakerd, B., and Hartmann, W.M. (1997). Psychophysical and physiological evidence for a precedence effect in the median sagittal plane. *J. Neurophys. Rapid Communication*, 77, 2223-2226.
9. Litovsky, R.Y. and Yin, T.C.T. (1998a). Physiological studies of the precedence effect in the inferior colliculus of the cat: I. Correlates of psychophysics. *J. Neurophys.* 80, 1302-1316.
10. Litovsky, R.Y. and Yin, T.C.T. (1998b). Physiological studies of the precedence effect in the inferior colliculus of the cat: I. Neural Mechanisms. *J. Neurophys.* 80, 1285-1301.
11. Litovsky, R.Y. (1998). Physiological studies of the precedence effect in the inferior colliculus of the kitten. *J. Acoust. Soc. Amer.*, vol. 104, *selected research article*, 103, 3139-3152.
12. Hawley, M.L., Litovsky, R.Y., and Colburn, H.S. (1999). Speech intelligibility and localization in complex environments. *J. Acoust. Soc. Amer.*, 105, 3436-3448.
13. Litovsky, R.Y., Colburn, H.S., Yost, W.A., and Guzman, S. (1999). The precedence effect. Review & Tutorial paper, *J. Acoust. Soc. Amer.*, 106, 1633-1654.
14. Delgutte, B., Joris, P., Litovsky, R. and Yin, T.C. (1999). Physiological studies in the inferior colliculus of the cat: I. Neural sensitivity to sound source direction as measured with virtual space stimuli. *J. Neurophys.* 81, 2833-2851.
15. Litovsky, R.Y., Hawley, M.L., Fligor, B. and Zurek, P.M. (2000). Failure to unlearn the precedence effect. *J. Acoust. Soc. Amer.*, 108, 2345-2352.
16. Litovsky, R.Y. and Shinn-Cunningham, B.G. (2001). Investigation of the relationship between three common measures of precedence: fusion, localization dominance and discrimination suppression. *J. Acoust. Soc. Amer.*, 109, 346-358.
17. Shinn-Cunningham BG, Schickler J, Kopco N, Litovsky R. (2001). Spatial unmasking of nearby speech sources in a simulated anechoic environment. *J. Acoust. Soc. Amer.*, 110(2), 1118-29.
18. Litovsky, R.Y. and Delgutte, B. (2002). Neural correlates of the precedence effect in the inferior colliculus: effect of localization cues. *J Neurophysiol.* 87(2), 976-994.
19. Litovsky, R.Y., Fligor, B. and Tramo, M. (2002). Functional role of the human inferior colliculus in binaural hearing. *Hearing Research*, 165:177-188.
20. Hawley, M.L., Litovsky, R.Y. and Culling. J.F. (2004). The benefit of binaural hearing in a cocktail party: Effect of location and type of interferer. *J. Acoust. Soc. Amer.* 115: 833-843.
21. Litovsky, R.Y., Parkinson, A., Arcaroli, J., Peters, R., Lake, J., Johnstone, P. and Yu, G. (2004). Bilateral cochlear implants in adults and children. *Arch. Otolaryngology Head and Neck Surgery.* 130: 648-655.
22. Dizon, R.M. and Litovsky, R.Y. (2004). Localization dominance in the median-sagittal plane: effect of stimulus duration. *J Acoust Soc Am.* 115(6):3142-55.
23. Stickney, G., F.G., Litovsky, R.Y. and Assman, P. (2004). Cochlear implant speech recognition with speech maskers. *J. Acoust. Soc. Amer.* 116: 1081-1091.
24. Culling, J.F., Hawley, M.L. and Litovsky, R.Y. (2004). The role of head-induced interaural time and level differences in the speech reception threshold for multiple interfering sound sources. *J. Acoust. Soc. Amer.* 116: 1057-1065.
25. Litovsky, R.Y. (2005). Speech intelligibility and spatial release from masking in young children. *J. Acoust. Soc. Amer.* 117: 3091-9.
26. Litovsky, R.Y., Johnstone, P.M., Godar, S., Agrawal, S., Parkinson, A., Peters, R. and Lake, J. (2006). Bilateral cochlear implants in children: localization acuity measured with minimum audible angle. *Ear and Hearing.* 27(1):43-59.
27. Litovsky, R.Y., Johnstone, P. and Godar, S. (2006). Benefits of bilateral cochlear implants and/or hearing aids in children. *Int. J. Audiology.* Jul;45 Suppl:78-91.

28. Long, C.J., Carlyon, R.P., Litovsky, R.Y. and Downs, D.H. (2006). Binaural Unmasking with Bilateral Cochlear Implants. *J Assoc Res Otolaryngol.* 7(4):352-60. Epub 2006 Aug 29.
29. Litovsky, R.Y., Parkinson, A., Arcaroli, J. and Sammath, C. (2006). Clinical Study of Simultaneous Bilateral Cochlear Implantation in Adults: A Multicenter Study. *Ear and Hearing.* 27(6):714-31.
30. Johnstone, P.M. and Litovsky, R.Y. (2006). Effect of masker type on speech intelligibility and spatial release from masking in children and adults. *J. Acoust. Soc. Amer.* 120(4):2177-89.
31. Garadat, S. and Litovsky, R.Y. (2007). Speech Intelligibility in Free Field: Spatial Unmasking in Preschool Children. *J. Acoust. Soc. Amer.* 121: 1047-1055.
32. Peters, R., Litovsky, R.Y., Parkinson, A. and Lake, J. (2007). Importance of Age and Post-Implantation Experience on Performance in Children with Sequential Bilateral Cochlear Implants. *Otol. Neurotol.* 28(5):649-57.
33. Grieco-Calub, T., Litovsky, R.Y. and Werner, L.A. (2008). Using the observer-based psychophysical procedure to assess localization acuity in toddlers who use bilateral cochlear implants. Invited paper in special issue of *Otology and Neurology.* 29(2):235-239.
34. Balkany, T., Hodges, A., Telischi, F., Hoffman, R., Madell, J., Parisier, S., Gantz, B., Tyler, R., Peters, R. and Litovsky, R. (2008). William House Cochlear Implant Study Group: position statement on bilateral cochlear implantation. *Otol Neurotol.* 29:107-8.
35. Jones, G.L. and Litovsky, R.Y. (2008). Effects of uncertainty in a cocktail party environment in adults. *J. Acoust. Soc. Amer.* 124: 3818-3830.
36. Loizou P.C, Hu, Y., Litovsky, R.Y., Yu, G., Peters, R., Lake, J. and Roland, P. (2009). Speech recognition by bilateral cochlear implant users in a cocktail-party setting. *J Acoust Soc Am.* 125:372-83.
37. Litovsky, R.Y., Parkinson, A. and Arcaroli, J. (2009). Spatial hearing and speech intelligibility in bilateral cochlear implant users. *Ear and Hearing.* 30(4):419-31.
38. Miller, S., Litovsky, R.Y. and Kluender, K. (2009). Predicting echo thresholds from speech onset characteristics. *J. Acoust. Soc. Amer., Electronic Letters.* 125(4):EL134-40.
39. van Hoesel, R.J.M., Jones, G.L. and Litovsky, R.Y. (2009). Interaural time-delay sensitivity in bilateral cochlear implant users: Effects of pulse-rate, modulation-rate, and place of stimulation. *J. Assoc. Res. Otolaryngol.* 10(4):557-67.
40. Potts, L., Skinner, M., Litovsky, R.Y., Kuk, F. and Strube, M. (2009). Recognition and Localization of Speech by Adult Cochlear Implant Recipients Wearing a Digital Hearing Aid in the Non-implanted Ear (Bimodal Hearing). *Int. J. Audiology.* 20:353-373.
41. Garadat, S.N., Litovsky, R.Y., Yu, G. and Zeng, F.G. (2009). Role of Binaural Hearing in Speech Intelligibility and Spatial Release from Masking Using Vocoded Speech. *J. Acoust. Soc. Amer.* 126(5):2522-35.
42. Garadat, S.N., Litovsky, R.Y., Yu, G. and Zeng, F.G. (2010). Effects of Simulated Spectral Holes on Speech Intelligibility and Spatial Release from Masking under Binaural and Monaural Listening. *J. Acoust. Soc. Amer.* 127(2):977-89.
43. Grieco-Calub, T., Saffran, J. and Litovsky, R.Y. (2009). Spoken word recognition in toddlers who use cochlear implants. *J. Sp. Lang. Hear. Res.* 52(6):1390-400.
44. Litovsky, R.Y., Jones, G.L., Agrawal, S. and van Hoesel, R. (2010). Effect of age at onset of deafness on binaural sensitivity in electric hearing in humans. *J. Acoust. Soc. Amer.* 127(1):400-14.
45. Lu, T., Litovsky, R. and Zeng, F.G. (2010). Binaural masking level differences in actual and simulated bilateral cochlear implant listeners. *J. Acoust. Soc. Amer.* 127(3): 1479-1490.
46. Godar, S.P. and Litovsky, R.Y. (2010). Experience with bilateral cochlear implants improves sound localization acuity in children. *Otology Neurotology.* 31(8):1287-92.
47. Grieco-Calub, T. and Litovsky, R.Y. (2010). Sound localization skills in children who use bilateral cochlear implants and in children with normal acoustic hearing. *Ear Hearing,* 31(5):645-56.
48. Litovsky, R.Y. and Godar, S.P. (2010). Difference in precedence effect between children and adults signifies development of sound localization abilities in complex listening tasks. *J. Acoust. Soc. Amer,* 128(4) 1979-1991. PMID: PMC2981114
49. Litovsky, R.Y. (2011). Review of recent work on spatial hearing skills in children with bilateral cochlear implants. *Cochlear Implants International.* 12 Suppl 1:S30-4.
50. Lu, T., Litovsky, R. and Zeng, F.G. (2011). Binaural unmasking with multiple adjacent masking electrodes in bilateral cochlear implant users. *J. Acoust. Soc. Amer.* 129(6):3934-45.

51. Jones, G.L. and Litovsky, R.Y. (2011). A cocktail party model of spatial release from masking by both noise and speech interferers. *J Acoust Soc Am.* 130(3):1463-74.
52. Todd, A.E., Edwards, J. and Litovsky, R.Y. (2011). Production of contrast between sibilant fricatives by children with cochlear implants. *J Acoust Soc Am.* 130:3969-3979
53. Runge, C., Jensen, J., Friedland, D., Litovsky, R. and Tarima, S. (2012). Aiding and Occluding the Contralateral Ear in Implanted Children with Auditory Neuropathy Spectrum Disorder. *J. Am. Academy Audiol.* 22(9):567-77.
54. Van Hoesel, R. and Litovsky, R.Y. (2011). Statistical bias in the assessment of binaural benefit relative to the better ear. *J Acoust Soc Am.* 130(6):4082.
55. Goupell, M.J., Yu, G. and Litovsky, R.Y. (2012). The effect of an additional echo in a precedence effect experiment. *J Acoust Soc Am.* 131(4):2958-67
56. Grieco-Calub, T. and Litovsky, R.Y. (2012). Spatial acuity in two-to-three-year-old children with normal acoustic hearing, unilateral cochlear implants and bilateral cochlear implant. *Ear Hearing,* 33(5):561-72.
57. Litovsky, R.Y., Goupell, M.J., Godar, S., Grieco-Calub, T., Jones, G.L., Garadat, S., Agrawal, S., Kan, A., Todd, A., Hess, C. and Misurelli, S. (2012). Studies on Bilateral Cochlear Implants at the University of Wisconsin's Binaural Hearing and Speech Lab. *Journal of the American Academy of Audiology.* Invited Paper. 23(6):474-494.
58. Misurelli, S.M. and Litovsky, R.Y. (2012). Spatial release from masking in children with normal hearing and with bilateral cochlear implants: effect of interferer asymmetry. *J Acoust Soc Am.* 132(1):380-391.
59. Litovsky, R.Y. (2012). Spatial Release from Masking, A Review. *Acoustics Today.* Invited Article. *Acoustics Today.* 2012;April:18-25.
60. Ihlefeld, A. and Litovsky, R.Y. (2012). Interaural level differences do not suffice for restoring spatial release from masking in simulated cochlear implant listening. *PLoS One.* 2012;7(9):e45296.
61. Litovsky, R.Y., Harris, S., Ehlers, E. and Hess, C. (2013). Reaching For Sound: Ecologically Valid Estimate of Spatial Hearing in 2-3 year old Children with Bilateral Cochlear Implants. *Otology Neurotology.* 34(3):429-35.
62. Goupell, M. J., Kan, A., and Litovsky, R. Y. (2013). Mapping procedures can produce non-centered auditory images in bilateral cochlear-implant users, *J. Acoust. Soc. Am.* 133(2):EL101-7. PMC3562277
63. Goupell, M. J., Stoelb, C., Kan, A. and Litovsky, R. Y. (2013). Effect of mismatched place-of-stimulation on the salience of binaural cues in conditions that simulate bilateral cochlear-implant listening, *J. Acoust. Soc. Am.* 133(4):2272-87.
64. Kan, A., Stoelb, C., Litovsky, R.Y. and Goupell, M.J. (2013). Effect of mismatched place-of-stimulation on binaural fusion and lateralization in bilateral cochlear-implant users. *J. Acoust. Soc. Am.* 134(4):2923-2936
65. Goupell, M.J. and Litovsky, R.Y. (2014). The effect of interaural fluctuation rate on correlation change discrimination. *J. Assoc. Res. Otolaryngol.* Epub Nov 21.
66. Churchill, T.H., Kan, A.K., Goupell, M.J., Ihlefeld, A. and Litovsky, R.Y. (2014). Speech Perception in Noise with a Harmonic Complex Excited Vocoder. *J. Assoc. Res. Otolaryngol.* Apr;15(2):265-78.
67. Ihlefeld, A., Kan, A. and Litovsky, R.Y. (2014). Across-frequency combination of interaural time difference in bilateral cochlear implant listeners. *Frontiers in Systems Neuroscience.* 8:22. doi: 10.3389/fnsys.2014.00022.
68. Tolnai, S., Litovsky, R.Y. and King, A.J. (2014). The Precedence Effect and its Build-up and Breakdown in Ferrets and Humans. *J. Acoust. Soc. Am.* 135: 1406–1418.
69. Hess, C.L., Zettler-Greeley, C., Godar, S.P., Ellis-Weismer, S. and Litovsky, R.Y. (2014). The Effect of Differential Listening Experience on the Development of Expressive and Receptive Language in Children with Bilateral Cochlear Implants. *Ear Hearing.* Jul-Aug;35(4):387-95.
70. Potts, L. and Litovsky, R.Y. (2014). Transitioning from Bimodal to Bilateral Cochlear Implant Listening: Speech Recognition and Localization in Four Individuals. *The American Journal of Audiology.* Vol.23, 79-92.
71. Gartrell, B., Jones, H.G., Kan, A., Burh-Lawler, M., Gubbels, S. and Litovsky, R.Y. (2014). Investigating Long-Term Effects of Cochlear Implantation in Single-Sided Deafness: A Best Practice Model for Longitudinal Assessment of Spatial Hearing Abilities and Tinnitus Handicap. *Otology & Neurotology.* Oct;35(9):1525-32.

72. Churchill, T.H., Kan, A., Goupell, M.J. and Litovsky, R.Y. (2014). Spatial hearing benefits demonstrated with presentation of acoustic temporal fine structure cues in bilateral cochlear implant listeners. *J. Acoust. Soc. Am.* Sep;136(3):1246.
73. Kan, A. and Litovsky, R.Y. (2014). Binaural hearing with electrical stimulation. *Hearing Research*, Invited paper in special issue. Sep 2. pii: S0378-5955(14)00143-9.
74. Jones, H., Kan A. and Litovsky, R.Y. (2014). Comparing sound localization deficits in bilateral cochlear-implant users and vocoder simulations with normal-hearing listeners. *Trends in Hear.* Nov 10;18.
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76. Goupell, M.J. and Litovsky, R.Y. (2015). Sensitivity to interaural envelope correlation changes in bilateral cochlear-implant users. *J. Acoust. Soc. Am.* 137, 335-349.
77. Winn, M., Edwards, J. and Litovsky, R.Y. (2015). The Impact of Auditory Spectral Resolution on Listening Effort Revealed by Pupil Dilation. *Ear Hearing.* Feb 4. [Epub ahead of print].
78. Winn, M. and Litovsky, R.Y. (2015). Using speech sounds to test functional spectral resolution in listeners with cochlear implants. *J. Acoust. Soc. Am.* 137, 1430-1442.
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98. Goupell, M.J., Kan, A., Litovsky, R.Y. (2017). Spatial attention in bilateral cochlear-implant users. *J Acoust Soc Am*. 2016 Sep;140(3):1652.
99. Litovsky, R.Y., Goupell, M.J., Kan, A. and Landsberger, D. (2017). Use of research interfaces for psychophysical studies with cochlear-implant users. *Trends in Hearing*. Jan-Dec;21:2331216517736464. doi: 10.1177/2331216517736464.
100. Goupell, M.J., Stoelb, C.A., Kan, A. and Litovsky, R.Y. (2018). The Effect of Simulated Interaural Frequency Mismatch on Speech Understanding and Spatial Release from Masking. *Ear Hearing*. Jan 15. doi: 10.1097/AUD.0000000000000541. [Epub ahead of print].
101. Thakkar, T., Kan, A., Jones, H. and Litovsky, R.Y. (2018). Using mixed rates of stimulation to improve sensitivity to interaural timing differences in bilateral cochlear implant listeners. *J. Acoust. Soc. Am.*
102. Litovsky, R.Y., Moua, K., Godar, S., Kan, A., Misurelli, S.M. and Lee, D.J. (2018). Restoration of Spatial Hearing in Adult Cochlear Implant Users with Single-Sided Deafness. *Hearing Research*. Apr 14. pii: S0378-5955(17)30511-7. doi: 10.1016/j.heares.2018.04.004. [Epub ahead of print]
103. Hess, C.L., Misurelli, S.M. and Litovsky, R.Y. (2018). Spatial release from masking in 2-year olds with normal hearing and with bilateral cochlear implants. *Trends in Hearing*. Jan-Dec;22:2331216518775567. doi: 10.1177/2331216518775567.
104. Zhou, X., Seghoune, A.K., Shah, A., Innes-Brown, H., Cross, W., Litovsky, R.Y. and McKay, C.M. (2018, in press). Cortical speech processing in post-lingually deaf adult cochlear implant users, as revealed by fNIRS. *Trends in Hearing*.

Invited Peer-Reviewed Book Chapters and Conference Proceedings

1. Delgutte, B., Joris, P., Litovsky, R. and Yin, T.C.T. (1995). Relative importance of different acoustic cues to the directional sensitivity of inferior-colliculus neurons. In: *Advances in Hearing Research: Proceedings of the 10th International Symposium on Hearing*. World Scientific Publishers, ed. G.A. Manley, G.M. Klump, C. Koppl, H. Fastl, and H. Oeckinghaus.
2. Yin, T. and Litovsky, R. (1995). Physiological studies of the precedence effect in the inferior colliculus of the cat. In: *Advances in Hearing Research: Proceedings of the 10th International Symposium on Hearing*. World Scientific Publishers, ed. G.A. Manley, G.M. Klump, C. Koppl, H. Fastl, and H. Oeckinghaus.
3. Litovsky, R. and Ashmead, D. (1997). Developmental aspects of binaural and spatial hearing. In: *Binaural and Spatial Hearing*, R.H. Gilkey and T.R. Anderson, Eds. Hillsdale, NJ: Lawrence Earlbaum Associates, pp. 571-592.
4. Litovsky, R.Y., Lane, C.C., Atencio, C.A. and Delgutte, B. (2000). Physiological measures of the precedence effect and spatial release from masking in the cat inferior colliculus. In: *D.J. Breebart, A.J.M. Houtsma, A. Kohlrausch, V.F. Prijs, R. Schoonhoven, Physiological and Psychophysical Bases of Auditory Function*. Shaker Publishing BV, Maastricht.
5. Litovsky, R.Y. (2002). Development of spatial hearing and clinical implications. *Proceedings of the Second International Conference, Sound Foundations through early amplifications*, Phonak AG.
6. Peters, B., Litovsky, R., Lake, J. and Parkinson, A. (2004). Sequential Bilateral Cochlear Implantation in Children. In: *International Congress Series, Vol. 1273*, R. Miyamoto, Ed. Elsevier, p. 462-465.
7. Litovsky, R.Y., Johnston, P., Parkinson, A., Peters, R. and Lake, J. (2004). Bilateral cochlear implants in children: Effect of experience. *Int. Congress Series, Vol. 1273*, R. Miyamoto, Ed. Elsevier, p. 451-454.
8. Godar, S.P., Litovsky, R.Y., Johnstone, P.M. and Agrawal, S.S. (2004). Cochlear implant plus hearing aid: Measuring Binaural Benefit in Children. *International Congress Series, Vol. 1273*, R. Miyamoto, Ed. Elsevier, p. 219-222.
9. Litovsky, R.Y. (2008). Benefits of Bilateral Hearing in Children with Cochlear Implants. *Proceedings of the AG Bell Research Symposium*, June.
10. Litovsky, R.Y. and Madell, J. (2009). Bilateral cochlear implants in children. In: *Clinical Management of Children with Cochlear Implants*. L. Eisenberg, Ed. Plural Publishing.

11. Litovsky, R.Y. and McAlpine, D.A. (2010). Physiological correlates of the precedence effect and binaural masking level differences. In: Auditory Brain, Volume 2 of the Oxford Handbook of Auditory Science, A. Rees and A. Palmer, Eds. Oxford University Press.
12. Litovsky, R.Y. (2011). Development of binaural and spatial hearing. Springer Handbook of Auditory Research (L.A. Werner, R.R. Fay and A.N. Popper, eds). Springer-Verlag, New York. Pp. 163-195.
13. Litovsky, R.Y. (2016). Binaural and Spatial Hearing in Implanted Children. In: Cochlear Implants in Children: Learning and the Brain. Nancy Young and Karen Kirk (eds). Springer.
14. Litovsky, R.Y. (2016). Bilateral Cochlear Implants in Children. In: Clinical Management of Children with Cochlear Implants Second edition. L. Eisenberg, Ed. Plural Publishing.
15. Litovsky, R.Y., Goupell, M.J., Misurelli, S.M. and Kan, A. (2017). Hearing with Cochlear Implants and Hearing Aids in Complex Auditory Scenes. In: The Auditory System at the Cocktail Party (J. Middlebrooks, J. Simon, R.R. Fay and A.N. Popper, eds). Springer-Verlag, New York.

Invited book review:

Litovsky, R.Y. (2004). Book Review of: *Cochlear implants: objective measures*, Helen E. Cullington (editor). J. Acoust. Soc. Amer. 115: 1385.

Invited Book Editorship: R.Y. Litovsky, M.J. Goupell and A. Popper (expected in 2019). *Binaural Hearing*. Springer

Invited Papers - Other

1. Litovsky, R.Y. (2003). The value of having two ears. Hearing Health, a publication of the Deafness Research Foundation
2. Litovsky, R.Y. (2006). Bilateral cochlear implants. British Auditory Society publication.
3. Litovsky, R.Y. (2006). Binaural Hearing. White Paper distributed by Cochlear Americas.
4. Litovsky, R.Y. (2007). Potential Advantages from Bilateral Cochlear Implants. White Paper distributed by Cochlear Americas.
5. Featured article in the American Speech and Hearing (ASHA) Foundation *Leader*, Spring 2010.

Invited Conference Presentations and Keynote Lectures (past ~12 years)

1. 2006, Translational research talk, American Auditory Society, Scottsdale, AZ.
2. 2006, Conference on Bilateral Cochlear Implants. Beth Israel Medical Center – New York Eye and Ear.
3. 2006, New England Audiology Update, University of Massachusetts Medical School. Keynote Speaker.
4. 2006, House Ear Institute - Alumni Fellowship Group, American Academy of Otolaryngology Meeting, Toronto, Canada.
5. 2006, Meeting of the Acoustical Society of America, Hawaii. Special Session sponsored by Architectural Acoustics and Psychophysics and Physiological Acoustics on hearing in rooms.
6. 2007, 6th International Meeting on Bilateral Cochlear Implant and Binaural Signal Processing, Berne Switzerland. Keynote Speaker.
7. 2007, International 11th Symposium on Cochlear Implants in Children, North Carolina.
8. 2007, Auditory Neuroscience Retreat, University of Washington, Seattle WA. Keynote lecture.
9. 2007, International Conference on Implantable Auditory Prostheses, Lake Tahoe, CA.
10. 2007, Conference on perceptual development, honoring Rachel Keen, Univ. of Massachusetts,
11. 2008, Hallpike symposium, Great Ormond Street Hospital, London, England.
12. 2008, German Audiological Society, Kiel, Germany, Keynote speaker.
13. 2008, MICHA symposium on binaural hearing and bilateral cochlear implants in children, Tel Aviv, Israel (x 4 lectures). Keynote speaker.
14. 2008, British Cochlear Implant Group annual meeting, Yorkshire, England.
15. 2008, Alexander Graham Bell Research Symposium, Milwaukee, WI.
16. 2008, Acoustical Society of America and European Acoustics Meeting, Paris, France.
17. 2009, Convergence of Cochlear Implant and Hearing Aid Technology, Miami Sc. Medicine.
18. 2009, American Speech and Hearing Association, Annual Virtual Conference on Audiology.
19. 2009, International 12th Symposium on Cochlear Implants in Children, Seattle, WA.
20. 2009, Conference on Implantable Auditory Prostheses, Lake Tahoe, CA.

21. 2009, Alexander Graham Bell North Carolina, Hear 'N' Now Conference, Keynote speaker.
22. 2009, PHONAK and The Ear Foundation Virtual Conference, "Round the world in 15 hours: Future challenges for hearing technologies.
23. 2010, 11th International Conference on Cochlear Implants, Stockholm, Sweden.
24. 2010, Auditory System Gordon Research Conference, New London, NH.
25. 2010, Hearing Loss Association of America, Milwaukee, WI.
26. 2010, Wisconsin Speech and Hearing Association, Oshkosh, WI.
27. 2011, "Hot Topics" Invited lecture, Acoustical Society of America meeting, Seattle WA.
28. 2011, Endowed Lecture. Sixth Annual Advances in Children's Hearing Lecture for the Bill Daniels Center for Children's Hearing at the Children's Hospital – Colorado.
29. 2011, Communication Disorders Leadership Conference, Univ. of Massachusetts, Amherst.
30. 2011, Conference on Implantable Auditory Prostheses, Pacific Grove, CA.
31. 2011, 13th International Symposium on Cochlear Implants in Children, Chicago, IL.
32. 2011, 4th Annual State of Science Meeting, Hearing Enhancement in Children, Wilmington, DE.
33. 2012, Presidential Symposium, Association for Research in Otolaryngology, San Diego, CA.
34. 2012, Symposium on binaural hearing in people with hearing loss, ASA meeting, Hong Kong.
35. 2012, The RealLife Meeting, Rome Italy.
36. 2013, Travel Award Luncheon Keynote Speaker, Association for Research in Otolaryngology.
37. 2013, AudiologyNow, Featured Session, Anaheim, CA.
38. 2013, AudiologyNow, Audiology Research Conference, Anaheim, CA.
39. 2013, Conference on Implantable Auditory Prostheses, Lake Tahoe, CA.
40. 2014, Symposium on deafness; Association for Research in Otolaryngology, San Diego, CA.
41. 2014, 8th Objective Measures Symposium on Auditory Implants, Toronto Canada (October).
42. 2014, 14th Symposium on Cochlear Implants in Children, Nashville TN (December).
43. 2015, "The future of hearing" workshop. Delmenhorst, Germany.
44. 2015, University of Oldenburg Summer Institute in Neuroscience, Walsrode, Germany.
45. 2015, Conference on Implantable Auditory Prostheses, Lake Tahoe, CA.
46. 2015, 11th International Workshop on Auditory Processing, Cody, Wyoming, USA.
47. 2015, Norwegian Departments of Education and Special Needs, Oslo, Norway.
48. 2015, Keynote speaker, 12th International Wullstein Symposium, Würzburg, Germany.
49. 2016, Keynote speaker, Workshop on future directions in cochlear implant research. Sydney, AU.
50. 2016, Assoc. Res. Otolaryngology, Invited Workshop, San Diego, CA.
51. 2016, Auditory System Gordon Research Conference. Bates College, Lewiston Maine.
52. 2016, Global Research Symposium on the Future of Cochlear Implant, Sydney, AU.
53. 2017, Academy Research Conference, AAA. Ped. Advancements, Assessment & Rehab.
54. 2017, Johns Hopkins University, The Lloyd Minor Lecture, March.
55. 2017, University of Southern California, The John Niparko Lecture, April.
56. 2017, IFOS, ENT World Congress, Symposium organized by Agir Pour L'Audition; *The Innovation in*
57. *audiology – where are we headed?*
58. 2017, University of Oslo, Oslo Norway, Invited Colloquium, May.
59. 2017, University of Kyoto Medical Center, Kyoto, Japan, November.
60. 2017, Fukuoka University Hospital, Fukuoka, Japan, November.
61. 2017, Kobe City General Medical Centre, Kobe, Japan, November.
62. 2017, Nagoya University, Nagoya, Japan, November.
63. 2017, Otological Society of Japan, Yokohama, Japan, November.
64. 2018, Invited Colloquium Speaker, Medical Research Council, Cambridge, UK, January.
65. 2018, Tel Aviv University, 3-lecture series featuring Binaural Hearing, Sheba Medical Center, March
66. 2018, Academy Research Conference, AAA, Featured Speaker, April.
67. 2018, Invited Colloquium Speaker, University of Michigan, Kresge Hearing Research Institute, April.
68. 2018, Keynote Speaker, Warren Estabrooks Speaker Series Conference- *Sound Intuition*, April.

- 69. 2018, Invited Symposium, Acoustical Society of America 175th Meeting, Minneapolis, MN, May.
- 70. 2018, Keynote Speaker, University of Oslo, Int'l Research Summit, School of Special Education, May.
- 71. 2018, Invited Colloquium Speaker, University of Colorado Medical School, June.
- 72. 2018, Gordon Research Conference on Neuroplasticity of Sensory Systems, Hong Kong, June.

Upcoming Invitations:

- 73. 2018, Invited Speaker, 10th International Symposium on Objective Measures in Auditory Implants, Tel Aviv Israel, October.

RESEARCH SUPPORT

Ongoing Extramural Research Support

NIH NIDCD 5R01 DC008365 (years 6-10), Litovsky (PI) 12/01/2013 - 11/31/2018
Improving binaural hearing in children with cochlear implants
 Role: Principal Investigator
 Total Award: \$2,448,772.

NIH NIDCD 5R01 DC03083 (years 16-20), Litovsky (PI) 08/01/2016 - 07/30/2021
Binaural Sensitivity and Spatial Hearing in Bilateral Cochlear Implant Users
 Role: Principal Investigator
 Total Award \$3,198,045

NIH NIDCD 1 R01 DC016839-01 05/01/2018 – 04/30/2023
CCI-Mobile: Signal Processing Advancements for Cochlear Implant Users in Naturalistic Environments
 Role: Principal Investigator [Multi-PI grant: Litovsky, Hansen (UT Dallas) and Svirsky (NYU)]
 Total Award: \$3,842,605; total award to UW Madison: \$846,800.

Pending Extramural Research Support n/a

Extramural Research Consulting and Advisory

External Advisory Committee, T32DC000013 postdoctoral training program at Boys Town National Research Hospital; 2014-2019

External Consultant, R01DC013307 (Lina Reiss, PI). Binaural spectral integration with hearing loss and hearing devices, 2013-2018.

External Consultant, R01DC009404 (Rene Gifford, PI). Cochlear implants: combined electric and binaural acoustic stimulation; 2015-2020.

External Consultant, R01 DC012142 (Julie Bierer, PI). Perceptual implications of cochlear implant electrode-neuron interfaces; 2015-2020.

Internal Research Support

University of Wisconsin, Office of the Vice Chancellor for Research 06/01/2017-present
 & Graduate Education and the Waisman Center
A novel integrative platform: Building capacity for non-invasive neuroimaging research (fNIRS)
 Total Award \$150,000
 Role: Principal Investigator

University of Wisconsin, Department of Surgery 06/01/2017-present
A novel integrative platform: Building capacity for non-invasive neuroimaging research (fNIRS support)
Total Award \$30,000
Role: Principal Investigator

Completed Extramural Research Support

NIH-NIDCD F32 01/01/1992-12/31/1994
Binaural mechanisms involved in spatial hearing
Role: Principal Investigator
Total Award \$116,000

NIH-NIDCD R03 04/01/1995-03/31/1997
Binaural hearing and the precedence effect
Role: Principal Investigator
Total Award \$83,594

National Organization for Hearing Research 01/01/1999-12/31/2000
Echo suppression in listeners with hearing impairment.
Total Award \$5,000

Role: Principal Investigator
Deafness Research Foundation
Speech intelligibility and spatial release from masking in young children 09/01/2001-12/31/2002
Role: Principal Investigator
Total Award \$20,000

National Organization for Hearing Research 01/1/2001-12/31/2002
Speech intelligibility and spatial release from masking in young children.
Role: Principal Investigator
Total Award \$10,000

NIDCD R29 DC03083, Litovsky (PI) 05/01/1998 - 06/31/2003
Directional Hearing and the Precedence Effect
Role: Principal Investigator

NIDCD R21DC05469, Litovsky (PI) 04/01/2002 - 03/31/2005
Binaural Hearing in Children with complex Environments
Role: Principal Investigator
Total Award \$145,000

NIDCD R21 DC006642, Litovsky (PI). 04/01/2004 - 03/31/2006
Functional Abilities in Children with Bilateral Hearing
Role: Principal Investigator
Total Award \$394,625

NIDCD F31 DC6785 10/01/2004-09/30/2006
Stimulus Uncertainty In A Cocktail Party Environment
Role: Mentor
Pre-doctoral award to Patti Johnstone

NIDCD F32 DC008452 03/15/2007 – 03/14-2009
Spatial hearing and word-learning skills in toddlers
Role: Mentor
Post-doctoral award to Tina Grieco-Calub

NIDCD F31 DC009361 <i>Human binaural sensitivity in electrical hearing: effect of channel interactions</i> Role: Mentor Pre-doctoral award for Gary L. Jones	09/01/2007 – 08/31/2009
NIH NIDCD R01 DC03083 (years 7-10), Litovsky (PI) <i>Directional Hearing in Complex Auditory Environments</i> Role: Principal Investigator Total Award \$2,310,630.	12/01/2003 - 11/30/2010
NIH-NIDCD F31 DC, Diversity Supplement <i>Speech Perception and Production in Children who use Cochlear Implants</i> Role: Principal Investigator This is a minority supplement for Ann Todd	9/01/2008 – 08/31/2011
NIH NIDCD 5R01 DC008365 (years 1-5), Litovsky (PI) <i>Spatial Hearing in Children with Normal Hearing and Bilateral Cochlear Implants</i> Role: Principal Investigator Total Award \$2,160,360.	07/01/2007 – 06/30/2012
NIDCD K99/R00 DC010206, Goupell (PI) Role: Mentor/Sponsor <i>Speech understanding and signal detection in noise in bilateral cochlear implants</i> This award is to support pathway to independence for Matthew Goupell.	07/01/2009 – 06/30/2014
NIDCD F31 DC013228 <i>Binaural Unmasking in Children with Cochlear Implants</i> Role: Mentor Pre-doctoral award for Ann Todd	07/01/2013 – 03/30/2016
NIH NIDCD 5R01 DC03083 (years 11-15), Litovsky (PI) <i>Binaural Sensitivity and Spatial Hearing in Bilateral Cochlear Implant Users</i> Role: Principal Investigator Total Award \$2,456,438	03/01/2010 - 02/28/2016
NIH NIDCD R01 5R01DC010494 (Litovsky PI on sub-contract; Hansen PI) <i>User Customization and User Optimization of Cochlear Implant Devices</i> Role: Principal Investigator on Sub-Contract to UW-Madison Total Award to UW Madison \$500,000	07/01/2010 – 06/30/2017

Completed Internal Research Support

Wisconsin Alumni Research Foundation <i>Spatial hearing in complex auditory environments in cochlear implant users</i> Total Award \$28,000. Role: Principal Investigator	07/01/03-06/30/2004
University of Wisconsin, University-Technology Innovation Fund <i>Validation of auditory perception measures for clinical use.</i> Total Award \$30,000 Role: Principal Investigator	7/01/2003-06/30/2004

University of Wisconsin, University-Technology Innovation Fund
Development of a clinical test for children
Total Award \$43,000
Role: Principal Investigator

07/01/2004-06/30/2005

University of Wisconsin, Vilas Research Associate Fellowship
Innovations in bilateral cochlear implants.
Total Award \$61,000
Role: Principal Investigator

06/01/2005-05/31/2007

University of Wisconsin – Mentored Hilldale Undergraduate Research Awards

2004-2005 Auditory perception in children in noisy environments; awarded to Ashley Eisen.
2005-2006 Auditory processing in children with specific language impairment, co-mentored with Julia Evans; awarded to Stephanie Pesa.
2008-2009 Double your Input, increase your success: Are two cochlear implants better than one? Reach for the answer; awarded to Samantha Harris
2010-2011 Categorical Perception in Children with Cochlear Implants, co-mentored with Jenny Saffran; awarded to Alyssa Lamers
2012-2013 Internalized listening abilities of normal hearing children using binaural cues; awarded to Kristina Ward.
2014-2015 Echo Suppression and Sound Localization in 2- to 3-Year Old Children; awarded to William Keener.

Teaching

A. Courses taught at UW - Communicative Sciences & Disorders (CSD)

831: Amplification Systems

Spring, 2002, 2003, 2004

202: Normal Aspects of Hearing

Fall, 2001; 2002; 2003; 2004; 2005; 2006; 2008; 2009; 2010; 2015; 2017; Spring 2013, 2014.

851: Hearing Science II: Advanced Topics

Spring, 2005; 2006; 2009; 2010.

850: Hearing Science I

Fall, 2011, Fall 2012, Fall 2015, Fall 2016.

921: Seminars in Audiology

Spring, 2012.

900: PhD Seminar in Implantable Auditory Prostheses

Spring, 2012.

900: PhD seminar in Speech & Hearing, and Professional Issues, Spring 2016, Spring 2017.

863: Implantable Auditory Prostheses, Fall 2017.

Neuroscience 500: Guest lecture 1-2 times per year

Waisman Center Waisman Center Ethics and Professional Development Seminar: Guest lecture annually on topics including *Conflict of Interest*, and *Policies in Human Subjects Research*

Teaching Innovation:

1. 851 (1st year AuD students) engaging students in research through a 2-day mini-conference that introduces students from Madison and Stevens Point to research on hearing and neuroscience at the UW-Madison campus
2. 202 (Undergraduate students) interactive learning approaches, such as 'clicker' response system to enhance learning activities

Teaching at other institutions: Ono Academic College, Course in Psychoacoustics, Spring 2011.

B. Ph.D. Students

1. Currently Being Supervised

- Tanvi Thakar (PhD/ ComSciDis), Fall 2013-present
- Keng Moua (PhD/ ComSciDis), Fall 2014-present
- Sean Anderson (PhD/ ComSciDis), Fall 2015-present
- Jasenia Hartman (PhD/ Neuroscience), Fall 2015-present
- Taylor Fields (PhD/ Neuroscience), Fall 2015-present

2. Past Ph.D. Students Supervised

- Patti Johnstone (PhD, ComDis), Fall 2001-2006; Currently Assoc. Prof. Univ. TN
- Scott Miller (PhD, Psychology), Spring 2005-Fall 2007; Transferred to Univ. of Louisville
- Soha Garadat (PhD, ComDis), Spring 2003-Fall 2007; Post-doctoral fellow, Univ. of Michigan, Ann Arbor, Kresge, Bryan Pfingst supervisor.
- Smita Agrawal (PhD, ComDis), Fall 2002-August 2008; Post-doctoral fellow, Univ. of Iowa, Richard Tyler supervisor. Currently scientist at Advanced Bionics Corporation.
- Gary Jones (PhD, Physiology), Spring 2003- August 2009; Post-doctoral fellow, Univ. of Washington, Seattle, Jay Rubinstein, supervisor.
- Tyler Churchill (PhD, Physics), Fall 2009- December 2013.
- Christi Hess (PhD, ComSciDis), Fall 2010- May 2014. Birth-3 program coordinator, Wisconsin.
- Michael Kiewe (PhD, Physics), Fall 2010-May 2014. Professor of Physics,
- Ann Todd (PhD, ComSciDis), Fall 2007-May 2015; Post-doctoral fellow, NYU.
- Sara Misurelli (PhD, ComSciDis), Fall 2009-2014; Visiting Assistant Professor UW-Madison and Postdoctoral fellow in Litovsky lab.
- Erica Ehlers (PhD / AuD dual degree, ComSciDis), Fall 2011-May 2016.

C. Post-doctoral Fellows, Past and current

- Yu Gonquiang, PhD, 2001-2008; Currently research engineer, University of Connecticut.
- Tina Grieco-Calub, AuD CCC PhD, 2005-2008, Currently Assistant Professor, Northwestern University.
- Cynthia Zettler-Greeley, PhD; Currently Assistant Director, Research and Evaluation at Nemours.
- Matthew Goupell, PhD, 2009-2011; Currently Assistant Professor, U. of Maryland, College Park.
- Antje Ihlefeld, PhD, 2012-2013; Currently Assistant Professor New Jersey Institute of Technology.
- Matthew Winn, 2012-2015. Assistant Professor, University of Washington, Seattle.
- Alan Kan, 2010-present.
- Heath Jones, 2011-2016. Research contractor, U.S. Department of Defense.
- Sara Misurelli, 2014-present.
- Ellen Peng, 2016-present.
- Thibaud Leceler, 2016-present.

D. AuD Student Capstone Projects Supervised, by year of completion:

- 2006: Sarah Neader, Corina Vidal, Raena Holmberg
- 2007: Jacquelyn Heeren, Rose Cotton
- 2008: Eileen Storm
- 2009: Diane Benz, Sarah Chapman
- 2011: Nick Liiamata, Jenifer Sliper, Jayna David
- 2012: Shelby Seeberg, Alison Vanamber, Melissa Vipond
- 2013: Kimberly Falkenstein, Lindsey Kunsch, Kyle Martell
- 2014: Tori Ashton
- 2015: Corey Stoelb

- 2016: Hye Yoon Seol, Kasey Englebert
- 2017: Rachael Jocewicz, Meg Pearson, Ariel Young

E. Course Taught During Prior Appointment(s)

Developmental Psychology (Undergraduate requirement for major), University of Massachusetts Amherst, Summer 1991.

Neurobiology and psychophysics of the auditory system (Bio-95; Undergraduate seminars taught to Biology majors), Harvard University, 1998, 1999.

I. Seminars and Colloquia – Not as part of organized conferences (Partial List)

University of Iowa, Dept. of Neurosurgery; Boston University, Hearing Research Center; Massachusetts Eye and Ear Infirmary, Eaton-Peabody Laboratory, Boston, MA; MIT, Research Laboratory of Electronics, Cambridge, MA; University of Oxford, Physiology, Oxford, England; University of Connecticut Health Center, Farmington, CT; Loyola University, Parmlly Hearing Institute; University of Wisconsin-Madison, Dept. of Psychology; University of Wisconsin-Madison, Physical Sciences Laboratory; University of Wisconsin-Madison, Dept. of Physiology; University of Wisconsin-Madison, Dept. of Communicative Disorders; Nottingham University and Institute for Hearing Research, Nottingham, England; University of Cambridge, Cambridge, England; Boystown National Research Hospital, Omaha NE; House Ear Institute, Los Angeles, CA; University of Massachusetts, Amherst, Dept. of Psychology; Mass. Eye and Ear Infirmary, Boston, MA. Northwestern University, Dept. of Speech and Hearing; House Ear Institute, Los Angeles. Dept. of Speech and Hearing, Indiana University, Indianapolis, IN. University College London, London, UK. Medical Research Council IHR, Nottingham, UK. Boston University Hearing Research Center, Boston MA. Oregon Health Sciences University, Portland OR. Northeast Ohio Medical School, Kent OH. Massachusetts Eye and Ear Infirmary, Boston. Karolinska Institute, Stockholm, Sweden. Vanderbilt University, Nashville TN. Cambridge University, Cambridge UK.

Service

A. Departmental and at the Waisman Center

1. Chair, Hearing Area Group, Dept. Communicative Disorders, 2002-2007, 2016-present.
2. Doctoral committee, Dept. Communicative Disorders, 2002-2004, 2016-present.
3. Timetable committee, Dept. Communicative Disorders, 2016-present.
4. Search committee, IT staff, Dept. Communicative Disorders, 2003-2004.
5. Space improvement committee, Dept. Communicative Disorders, 2004-2010.
6. Search committee, Faculty position, Dept. Communicative Disorders, 2004; 2006.
7. Committee on Affiliate Appointments, Dept. Communicative Disorders, Nov-Dec 2006.
8. Chair, Awards committee, 2010-2014.
9. Chair, AuD self-study, 2010-2012.
10. Budget committee, 2010-present.
11. Director, AuD Program, Dept. of Communication Sciences & Disorders, 2011-2014.
12. Faculty Advisor, Maternal Child Health, Leadership Education in Neurodevelopmental and Related Disabilities.
13. Director, Undergraduate Studies, Dept. of Communication Sciences & Disorders, 2016-present.
14. Chair, faculty search committee, 2016-present.

B. Tenure-Track Faculty Mentoring Committees

1. Chair, mentoring committee for Assistant Professor K. Schairer.
2. Member, Mentoring committee for Susan Thibeault, Dept. of Surgery.
3. Member, Mentoring committee for Samuel Gubbels, Dept. of Surgery.
4. Chair, Mentoring committee for Joseph Roche, Dept. of Surgery.

C. College/ University

1. Faculty senator, 2001-2002
2. Advisory Committee to Provost, Women Faculty Mentoring Committee, 2002-present

3. Advisory Committee to Provost, Equity and Diversity Resource Committee, 2002-present
4. Faculty Connections Program, Invited to participate by dean's office, 2003-2004
5. Conflict of Interest Committee, 2005-2011
6. Institutional Conflict of Interest Committee, Spring 2006
7. Faculty Appeals Committee, 2006-present
8. Health Sciences Teaching Symposium, 2009-present
9. Committee on Women at the University, 2010-present
10. Chair, Committee on Women at the University, 2011-2013
11. Campus Planning Committee, Rep. from Committee on Women, 2010-present
12. Elected, Executive Committee University of Wisconsin-Madison Faculty Division of the Biological Sciences, 2012-present
13. Co-Chair, UW Diversity Planning Committee (appointed by University Committee), 2013-
14. L&S New Faculty Welcome, 2011, 2012
15. Postdoctoral Mentoring Program Committee, 2012-present
16. Ad-Hoc "anti bullying" (climate and culture) committee, 2013-2014
17. Tenure Policy Committee, 2015-2016
18. Ad-hoc committee on Research Misconduct Policy, 2016-present
19. Search Committee, UW Madison – Chief Human Resources Officer, 2016
20. Ad Hoc Student Services Advisory Committee (by Chancellor's invitation), 2017
21. Campus Climate Survey (CCS) Task Force (TF), 2017- present
22. Elected, Academic Planning Council, Letters & Sciences, 2017-present

D. Professional

Sessions Chaired/Organized at Conferences

- 2001: Organizer/chair: Invited symposium at the meeting of the Acoustical Society of America. Behavioral studies and physiological correlates.
- 2000: Chair: Poster session at the meeting of the Acoustical Society of America. Perception and Psychophysics.
- 1999: Co-Organizer/chair: Invited symposium at the joint meeting of the Acoustical Society of America-Acoustical European Society (Berlin). Perception and localization in complex and reverberant environments.
- 1998: Organizer/chair: Invited symposium at the meeting of the Association for Research in Otolaryngology. Psychophysical and physiological studies on the precedence effect.
- 2005: Organizer/chair: Invited symposium at the 149th meeting of the Acoustical Society of America. Communicative abilities of congenitally deaf children: From behavior to physiology, from psychophysics to hair cell regeneration. (Co-chair with Mario Svirsky).
- 2001, 2005: Invited Panel Member, Binaural Cochlear Implants. Cochlear Implant Northeast Family Retreat, Sturbridge MA.
- 2007-2015: Steering Committee, Conference on Implantable Auditory Prostheses.
- 2011: Organize/chair: Invited symposium at the Meeting of the Association for Research in Otolaryngology. Progress and Challenges in Implantable Auditory Prostheses: Lessons Learned from Psychophysics, Physiology and Engineering.
- 2011: Elected Co-Chair, Conference on Implantable Auditory Prostheses, Asilomar CA.
- 2011: Program Committee, 13th Symposium on Cochlear Implants in Children, Chicago, IL.
- 2011-2014: Executive Committee, Association for Research in Otolaryngology (elected council member).
- 2012: Organize/chair: Invited symposium at the Acoustics 2012 Meeting, Hong Kong. Release from Masking in Listeners with Normal and Impaired Hearing.
- 2010-present: Chair & Organizer of annual 'Cochlear Implant CRASH' conference, Waisman Center.
See also section on: Professional Activities, Honors, Awards for recent activities
- 2017-18: Co-Chair (elected), Gordon Research Conference on Auditory Function

Professional mentoring and special interest:

1. Mentoring session for women, 2009, International 12th Symposium on Cochlear Implants in Children, Seattle, WA.
2. Mentoring session for graduate students, post-doctoral fellows and young scientists, 2009 Conference on Implantable Auditory Prostheses, Lake Tahoe, CA.
3. Mentoring session for graduate students, post-doctoral fellows and young scientists, 2011 Conference on Implantable Auditory Prostheses, Lake Tahoe, CA, Asilomar CA.
4. Mentoring session for women, 2011, International 13th Symposium on Cochlear Implants in Children, Chicago, IL.
5. Multi-day, multi-topic (9 sessions overall): Mentoring session for graduate students, post-doctoral fellows and young scientists, 2013, 2014, 2015, 2016, 2017; Association for Research in Otolaryngology.
6. Mentoring session for graduate students, post-doctoral fellows and young scientists, Conference on Implantable Auditory Prostheses, CA: 2009, 2011, 2013, 2015.

Other

Media; Featured stories on research in the Litovsky lab

- a. 2006: Features in "Sound and Fury" video, follow-up on original Nova story
- b. 2007: Featured UW news article
- c. 2007: Daily Cardinal article
- d. 2007: Minneapolis Star Tribune
- e. 2007: SIGNews, a national newspaper for the signing community
- f. 2008: NIDCD Public Health Bulletin
- g. 2009: American Institute of Physics
- h. Online stories and articles: <http://www.medicalnewstoday.com>; <http://www.medilexicon.com>; <http://www.hospitalsworldwide.com>; <http://www.ivanhoe.com/science/story/2010/11/788a.html>
 - i. <http://www.news.wisc.edu/17519>
- i. 2012: University of Wisconsin-Madison Home page story on research in Litovsky lab. After appearing on main page, the movie will be moved to: http://www.youtube.com/watch?v=K_cDdpeNtVc
- j. 2013: ABC-WKOW: <http://www.wkow.com/story/22914896/2013/07/23/how-auditory-brainstem-implants-could-help-the-deaf>
- k. University of Wisconsin-Madison homepage story: http://www.youtube.com/watch?feature=player_embedded&v=KYEEbvOzS1I
- l. EurekAlert! AAAS The Global Source for Science News: https://www.eurekalert.org/pub_releases/2018-05/aso-scsc050218.php