

Shaum P. Bhagat, Ph.D., CCC-A

CURRICULUM VITAE

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[REDACTED]
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Languages: English (fluent), Spanish (conversational), Hindi (conversational)

EDUCATION

<p><i>The University of Texas at Austin</i> Austin, Texas Dissertation Title: Evaluation of distortion products produced by the human auditory system in response to two-tone signals</p>	<p>Ph.D.</p>	<p>2003</p>	<p>Communication Sciences and Disorders</p>
<p><i>The University of Arizona</i> Tucson, Arizona Thesis Title: Distortion-product otoacoustic emissions in humans: the influence of a subclinical notch</p>	<p>M.S.</p>	<p>1995</p>	<p>Speech and Hearing Sciences</p>
<p><i>Washington State University</i> Pullman, Washington Cum Laude</p>	<p>B.A.</p>	<p>1991</p>	<p>Communications</p>

PROFESSIONAL EXPERIENCE

<p>Professor and Department Chair (tenured)</p>	<p>Dept. of Communicative Disorders and Sciences Connie L. Lurie College of Education <i>San José State University</i>, San José, CA</p>	<p>2017-</p>
<p>Associate Professor (tenured)</p>	<p>School of Communication Sciences and Disorders (Formerly, School of Audiology and Speech-Language Pathology) <i>The University of Memphis</i>, Memphis, TN</p>	<p>2011-2017.</p>
<p>Assistant Professor</p>	<p>School of Audiology and Speech-Language Pathology <i>The University of Memphis</i>, Memphis, TN</p>	<p>2005-2011.</p>
<p>Assistant Professor</p>	<p>Dept. of Communication Sciences and Disorders <i>Louisiana State University</i>, Baton Rouge, LA</p>	<p>2003-2005.</p>

Research Assistant	Child Language Intervention Project <i>The University of Texas at Austin</i>	2002-2003.
Assistant Instructor	Dept. of Communication Sciences and Disorders <i>The University of Texas at Austin</i>	2001.
Teaching Assistant	Dept. of Communication Sciences and Disorders <i>The University of Texas at Austin</i>	1998-2000.
Clinical Audiologist	<i>El Paso ENT Associates</i> El Paso, Texas	1997-1998.
Clinical Audiologist	<i>Associated ENT</i> Phoenix, Arizona	1995-1997.
Audiology Intern	<i>VA Medical Center</i> Tucson, Arizona	1994-1995.

ACADEMIC SERVICE

National Committees

American Speech-Language-Hearing Association Convention Program Committee, Topic: Hearing and Balance Science, 2017.

Council on Academic Accreditation, Nominating Committee, 2017-.

American Academy of Audiology Task Force on OAE Clinical Guidelines, 2013- present.

American Academy of Audiology Research Committee, 2010-2013.

Diversity and Minority Affairs Committee, Association for Research in Otolaryngology, 2008-2011.

Perspectives newsletter manager, *Special Interest Division 6: Hearing and Hearing Disorders: Research and Diagnostic*. American Speech-Language-Hearing Association, 2007-2009.

Editor, *ASHA Kiran*, the Asian Indian Caucus Newsletter. 2007.

UM Committees

University Wide

Ombudsperson Selection Committee, 2017.

President's Panel Hearing Committee, 2017.

Tenure and Promotion Appeals Committee, 2012-2015.

Research Policies Committee (Chair), 2011-2012.

Faculty Senator, 2011-2013.

Faculty Senate (proxy) 2010.

Full Member, Graduate Faculty, 2009-2017.

Science, Engineering, and Math Faculty Research Grant Committee, 2008-2009.

School of Communication Sciences and Disorders

Au.D. Committee (Chair) 2015-2017.

Audiology Assistant/Associate Professor Search Committee (Chair) 2016-2017.

Curriculum Committee (Chair) 2016-2017.

Ph.D. Policies Committee (Chair) 2013-2015.

Admissions Committee (Chair) 2012-2013.

Planning Task Force (Chair) 2011-2013.

Library Committee (Chair) 2005-2007.

IIS/CSD Joint Assistant Professor Search Committee 2011-2012.

Appointments Committee 2005-2009.

Audiology Clinic Director Search Committee 2007-2008.

Dean's Advisory Committee 2011-2013.

Clinical Faculty Promotion Committee 2011-2012.

Admissions Committee 2006-2013.

Ph.D. Policies Committee 2006-2010.

Website Oversight Committee 2011-2013.

LSU Committees

Faculty Senator, College of Arts and Sciences, 2004-2005.

Chair, Audiology Comprehensive Examinations Committee, 2004-2005.

Faculty Search Committee, 2004.

Admissions Committee, 2004.

Member, LSU Center for the Study of Life Course and Aging, 2003-2004.

Reviewing

Grant Reviewer, Biotechnology and Biological Sciences Research Council, United Kingdom, 2014.

Grant Reviewer, Medical Research Council, United Kingdom, 2013.

Editorial Consultant, *International Journal of Pediatric Otorhinolaryngology*, 2016

Editorial Consultant, *Ear and Hearing*, 2009-2011, 2013-2017.

Editorial Consultant, *Journal of the American Academy of Audiology*, 2014.

Editorial Consultant, *The Journal of the Acoustical Society of America*, 2012, 2017.

Editorial Consultant, *International Journal of Pediatric Otorhinolaryngology*, 2012, 2015

Editorial Consultant, *Medical Engineering and Physics*, 2011.

Editorial Consultant, *Archives of Otolaryngology Head and Neck Surgery*, 2009

Editorial Consultant, *Medical Science Monitor*, 2009.

Editorial Consultant, *American Journal of Audiology*, 2008, 2016

Editorial Consultant, *International Journal of Audiology*, 2006-2007.

Editorial Consultant, *Journal of Speech, Language, and Hearing Research*, 2003.

Reviewer, Students Preparing for Academic and Research Career (SPARC) Award, 2007

Reviewer, 2005 Minority Student Leadership Program, ASHA.

PUBLICATIONS

Journal Articles and Abstracts (*peer reviewed; † invited papers)

1. * **Bhagat, S.P.**, Yellamsetty, A., and Yoo, J. Cochlear inflection points and the onset of auditory nerve and brainstem potentials in humans. *Neuroscience Letters* (under review).
2. ***Bhagat, S.P.** and Yellamsetty, A. The role of efferent reduction of cochlear compression in the detection of tones in noise. *Open Journal of Acoustics* (in press).
3. *Bidelman, G.M., Schneider, A.D., Heitzmann, V.R., and **Bhagat, S.P.** (2017). Musicianship enhances ipsilateral and contralateral efferent gain control to the cochlea. *Hearing Research* 344, 275-283. doi: 10.1016/j.heares.2016.12.001.
4. *Bidelman, G.M. and **Bhagat, S.P.** (2017). Cochlear, brainstem, and psychophysical responses show spectrotemporal tradeoff in human auditory processing. *Neuroreport* 28(1), 17-22.

5. *Yellamsetty, A. and **Bhagat, S.** (2017). A taxonomy-based approach of inferring cochlear compression from otoacoustic emissions. *Abstracts of the Fortieth Annual MidWinter Research Meeting of the Association for Research in Otolaryngology*, 81.
6. *Bidelman, G., Schneider, A., Heitzmann, V., and **Bhagat, S.** (2017). Musicianship enhances monaural and binaural efferent gain control to the cochlea. *Abstracts of the Fortieth Annual MidWinter Research Meeting of the Association for Research in Otolaryngology*, 76.
7. **Bhagat, S.**, Yellamsetty, A, and Taylor, B. (2016, November). A comparison of HyperSound and conventional loudspeaker transmission characteristics in an anechoic environment. *AudiologyOnline*, Article 18525. Retrieved from <http://www.audiologyonline.com>.
8. *Bidelman, G.M. and **Bhagat, S.P.** (2016). Objective detection of auditory steady-state potentials based on mutual information. *International Journal of Audiology* 55(5), 313-319. doi: 10.3109/14992027.2016.1141246.
9. *Bidelman, G.M., Nelms, C., and **Bhagat, S.P.** (2016). Musical experience sharpens human cochlear tuning. *Hearing Research* 335, 40-46. doi: 10.1016/j.heares.2016.02.012.
10. *Bass, J.K., Hua C.-H., Huang, J., Onar-Thomas, A., Ness, K.K., Jones, S., White, S., **Bhagat, S.P.**, Chang, K., Merchant, T.E. Hearing loss in patients who received cranial radiation therapy for childhood cancer. (2016). *Journal of Clinical Oncology* 34(11), 1248-1255. doi: 10.1200/JCO.2015.63.6738.
11. *Bidelman, G.M., Nelms, C., and **Bhagat, S.P.** (2016). Musical experience sharpens human cochlear tuning. *Abstracts of the Thirty-Ninth Annual MidWinter Research Meeting of the Association for Research in Otolaryngology*, 181.
12. ***Bhagat, S.P.** and Yellamsetty, A. (2016). Masked tone thresholds are related to efferent-induced linearization of human DPOAE I/O functions. *Abstracts of the Thirty-Ninth Annual MidWinter Research Meeting of the Association for Research in Otolaryngology*, 659.
13. *Bidelman, G.M. and **Bhagat, S.P.** (2015). Right ear advantage drives the link between olivocochlear efferent ‘antimasking’ and speech-in-noise listening benefits. *Neuroreport* 26(8), 483-487. doi: 10.1097/WNR.0000000000000376.
14. Bidelman, G.M., and **Bhagat, S.P.** (2015). Right ear advantage drives the link between olivocochlear “antimasking” and speech in noise listening benefits. *Abstracts of the Thirty-Eighth Annual MidWinter Research Meeting of the Association for Research in Otolaryngology*, 172.
15. ***Bhagat, S.P.** (2014). Modeling DPOAE input/output function compression: comparisons with hearing thresholds. *Journal of the American Academy of Audiology* 25, 746-759. doi:10.3766/jaaa.25.8.5.
16. *Bass, J.K. and **Bhagat, S.P.** (2014). Challenges in ototoxicity monitoring in the pediatric oncology population. *Journal of the American Academy of Audiology* 25, 760-774. doi: 10.3766/jaaa.25.8.6.
17. *Bidelman, G.M., Schug, J.M., Jennings, S.G. and **Bhagat, S.P.** (2014). Psychophysical auditory filter estimates reveal sharper cochlear tuning in musicians. *The Journal of the Acoustical Society of America* 136, EL 33-39. doi: 10.1121/1.4885484.
18. ***Bhagat, S.P.** and Kilgore, C. (2014). Efferent-mediated reduction in cochlear gain does not alter tuning estimates from stimulus-frequency otoacoustic emission group delays. *Neuroscience Letters*, 559, 132-135. Note: online publication in 2013. doi: 10.1016/j.neulet.2013.11.059.

19. *Bass, J.K., Huang, J., Onar-Thomas, A., Chang, K.W., **Bhagat, S.P.**, Chintagumpala, M., Bartels, U., Gururangan, S., Hassall, T., Heath, J.A., McCowage, G., Cohn, R.J., Fisher, M.J., Robinson, G., Broniscer, A., Gajjar, A., and Gurney, J.G. (2014). Concordance between the Chang and the International Society of Pediatric Oncology (SIOP) ototoxicity grading scales in patients treated with cisplatin for medulloblastoma. *Pediatric Blood and Cancer*. 64 (1) 601 - 605. Note: online publication in 2013. doi: 10.1002/ pbc.24830.
20. Tognola, G., **Bhagat, S.**, Paglialonga, A., Chiaramello, E., Bass, J., Qaddoumi, I., Brennan, R., Wilson, M., Wu, J., Galindo, C.R. (2013). Evaluation of carboplatin chemotherapy on time-frequency features of transient-evoked otoacoustic emissions in children. *Otorhinolaryngologia Hungarica*, 86.
21. **Bhagat, S.P.** and Kilgore, C. (2013). The half-octave shift revisited: evidence from middle-ear power transmittance and stimulus-frequency otoacoustic emissions in humans. *Abstracts of the Thirty-Sixth Annual MidWinter Research Meeting of the Association for Research in Otolaryngology*, 1071.
22. ***Bhagat, S.**, Bass, J., Qaddoumi, I., Brennan, R., Wilson, W., Wu, J, Rodriguez-Galindo, C., Paglialonga, A., Tognola, G. (2013). Time-frequency analysis of transient-evoked otoacoustic emissions in children exposed to carboplatin chemotherapy. *Audiology and Neurotology*, 18, 71-82. Note: online publication in 2012. doi: 10.1159/000343909.
23. ***Bhagat, S.P.** and Carter, P.H. (2010). Efferent-induced change in human cochlear compression and its influence on masking of tones. *Neuroscience Letters*, 485, 94-97. doi: 10.1016/j.neulet.2010.08.069.
24. ***Bhagat, S.P.**, Bass, J.K., White, S.T., Qaddoumi, I, Wilson, M.W., Wu, J., & Rodriguez-Galindo, C. (2010). Monitoring carboplatin ototoxicity with distortion-product otoacoustic emissions in children with retinoblastoma. *International Journal of Pediatric Otorhinolaryngology*, 74, 1156-1163. doi: 10.1016/j.ijporl.2010.07.004.
25. **Bhagat, S.**, Bass, J., White, S., Qaddoumi, I., Wilson, M., and Rodriguez-Galindo, C. (2010). Monitoring carboplatin ototoxicity in children with distortion-product otoacoustic emissions: a feasibility study. *Abstracts of the Thirty-Third Annual MidWinter Research Meeting of the Association for Research in Otolaryngology*, 666.
26. ***Bhagat, S.** (2009). Analysis of distortion product otoacoustic emission spectra in normal-hearing adults. *American Journal of Audiology*, 18, 60-68. doi: 10.1044/1059-0889(2009/08-0025).
27. ***Bhagat, S.P.** and Xu, J. (2009). The influence of language experience on contralateral suppression of click-evoked otoacoustic emissions in young adults. In N.P. Cooper and D.T. Kemp (eds.) *Concepts and Challenges in the Biophysics of Hearing. Proceedings of the 10th International Workshop on the Mechanics of Hearing*, pp. 181-182. Singapore: World Scientific. doi: 10.1142/9789812833785_0028.
28. ***Bhagat, S.P.** and Davis, A.M. (2008). Modification of otoacoustic emissions following ear-level exposure to MP3 player music. *International Journal of Audiology*, 47, 751-760. doi: 0.1080/14992020802310879.
29. *Tanedo, J.R. and **Bhagat, S.P.** (2008). Attentional control of cochlear micromechanics: the role of the medial olivocochlear efferent system. *Perspectives on Hearing and Hearing Disorders: Research and Diagnostics*, 12, 17-21. doi: 10.1044/hhd.12.1.17.

30. ***Bhagat, S.P.** (2008). The effects of monotic and dichotic interference tones on 40 Hz auditory steady state responses in normal-hearing adults. *Journal of the American Academy of Audiology*, 19, 101-119. doi: 10.3766/jaaa.19.2.2.
31. **Bhagat, S.P.** and Xu, J. (2008). Does language experience sensitize olivocochlear reflexes elicited by stimuli that vary in pitch? *Abstracts of the Thirty-First Annual MidWinter Research Meeting of the Association for Research in Otolaryngology*, 693.
32. *Elliott, E.M., **Bhagat, S.P.**, and Lynn, S.D. (2007). Can children with (central) auditory processing disorders ignore irrelevant sounds? *Research in Developmental Disabilities*, 28, 506-517. Note: online publication in 2006. doi: 10.1016/j.ridd.2006.06.005.
33. †**Bhagat, S.P.** (2007). Diagnostic value of vestibular-evoked myogenic potentials: a review of the evidence. *Perspectives on Hearing and Hearing Disorders: Research and Diagnostics*, 11, 23-26. doi: 10.1044/hhd11.1.23.
34. **Bhagat, S.P.** (2007). Effects of monotic and dichotic interference tones on auditory steady-state responses. *XX IERASG Biennial Symposium Programme & Book of Abstracts*, 102.
35. **Bhagat, S.P.** (2007). Screening for (central) auditory processing disorders in Asian Indian children: a pilot study. *Asha Kiran*, Spring 2007, 7.
36. ***Bhagat, S.P.** (2006). Properties of binaural vestibular evoked myogenic potentials elicited with air- conducted and bone-conducted tone bursts. *International Journal of Audiology*, 45, 609-616. doi: 10.1080/1499202060093744.
37. **Bhagat, S.P.** and Bacon, S.P. (2006). Electrophysiological correlates of modulation detection interference. *Abstracts of the Twenty-Ninth Annual MidWinter Research Meeting of the Association for Research in Otolaryngology*, 211.
38. **Bhagat, S.P.** (2005). Contributions of contralateral sound to vestibular-evoked myogenic potentials. *Abstracts of the Twenty-Eighth Annual MidWinter Research Meeting of the Association for Research in Otolaryngology*, 196.
39. Klumpp, M. and **Bhagat, S.P.** (2005). Age-related effects of vestibular-evoked myogenic potentials. *Abstracts of the Twenty-Eighth Annual MidWinter Research Meeting of the Association for Research in Otolaryngology*, 200.
40. ***Bhagat, S.P.** and Champlin, C.A. (2004). Evaluation of distortion products produced by the human auditory system. *Hearing Research*, 193, 51-67. doi: 10.1016/j.heares.2004.04.005.
41. **Bhagat, S.P.** (2004). Searching for thresholds: refining the frequency specificity of auditory evoked potentials. *Asha Kiran*, November 2004, 6-7.
42. **Bhagat, S.P.** and Champlin, C.A. (2004). Evaluation of distortion products produced by the human auditory system. *Abstracts of the Twenty-Seventh Annual MidWinter Research Meeting of the Association for Research in Otolaryngology*, 97.
43. †**Bhagat, S.P.** (2002). Tales from the crib: hearing threshold estimation with auditory evoked potentials. *ASHA Kiran*, November 2002, 3.

44. **Bhagat, S.P.** and Champlin, C.A. (2000). Effect of frequency region and noise bandwidth on the AMFR. *The Journal of the Acoustical Society of America* 108(5), 2596-2597.

Book Chapters

1, †**Bhagat, S.P.** (2012). Ototoxic hearing loss and retinoblastoma patients. In G.Kumaramanickavel (Ed.), *Retinoblastoma: An update on clinical, genetic counseling, epidemiology and molecular tumor biology* (pp. 39-54). Intech Publishers. ISBN: 978-953-51-0453-3.

2. **Bhagat, S.P.** (2012). Frequency-following responses. In Atcherson, S. & Stoody, T. (Eds.) *Auditory Electrophysiology : A Clinical Guide*. Thieme Publishers. (pp. 85-103). ISBN: 978-1-60406-363-9.

PROFESSIONAL SOCIETIES AND MEMBERSHIPS

Certificate of Clinical Competence in Audiology (CCC-A), March, 1996, American-Speech-Language-Hearing Association.

Member, Special Interest Division 6: Hearing and Hearing Disorders: Research and Diagnostic.

Fellow, American Academy of Audiology

Member, Association for Research in Otolaryngology

Member, American Auditory Society

Member, Sigma Xi, The Scientific Research Society

GRANTS AND AWARDS

Funded Projects-External Support

Turtle Beach Corporation. Evaluation of the Hypersound device in an anechoic listening environment. *Funded*. \$17,852. P.I.: **Shaum Bhagat**. Award period: 2015-2016.

GRAMMY Foundation. Minimizing noise-induced hearing loss with musicianship. Co-P.I.: **Shaum Bhagat** (P.I.: Gavin Bidelman). *Funded*. \$20,000. Award period: 2014-2016.

American Academy of Audiology Foundation New Investigator Award. Electrophysiological Correlates of Modulation Detection Interference. P.I.: **Shaum Bhagat**. Mentor: Sid Bacon, Ph.D., Department of Speech and Hearing Sciences, Arizona State University *Funded*. \$9,022. Award period: 2004-2005.

Funded Projects- Internal Support

The University of Memphis Faculty Research Grant. P.I.: **Shaum Bhagat**. On dynamics of middle-ear transmission and cochlear emissions at audible high frequencies. *Funded*. \$ 6,485. Award period: 2012-2013.

The University of Memphis Faculty Research Grant. P.I.: **Shaum Bhagat**. Irrelevant Sounds and Memory in Children with and without Auditory Processing Disorders. *Funded*. \$4,900. Award period: 2006-2007.

LSU Council on Research Summer Stipend Program. P.I.: **Shaum Bhagat**. Neuroelectrical Assessment of the Cocktail Party Effect. *Funded*. \$5,000. Award period: 2005.

LSU Faculty Research Grant (FRG) Program. P.I.: **Shaum Bhagat**. Effects of Noise Level and Bandwidth on Vestibular Evoked Myogenic Potentials. *Funded*. \$7,492. Award period: 2004.

LSU Council on Research. P.I.; **Shaum Bhagat**. Faculty Travel Grant Program. \$600. *Funded*. Award period: 2004.

Submitted Projects

National Institute on Deafness and Other Communication Disorders. R21ECRA. Early detection of sensorineural and “hidden” hearing loss via scalp-recorded frequency-following responses. P.I.: Gavin Bidelman. Co-P.I.: **Shaum Bhagat**. Amount requested: \$300,000. 2016. *Not Funded*.

Avon Foundation. Evaluating bioacoustics markers for estrogen in healthy women with a family history of breast cancer. P.I.: **Shaum Bhagat**. Amount requested: \$255,220. 2015. *Not Funded*.

Hearing Health Foundation. Peripheral and central physiological markers underlying speech-in-noise listening abilities. P.I.: Gavin Bidelman. Co-P.I.: **Shaum Bhagat**. Amount requested: \$24,970. 2012. *Not Funded*.

National Institute on Deafness and Other Communication Disorders. 1R03DC011133-01. Monitoring carboplatin ototoxicity in children. P.I.: **Shaum Bhagat**. Amount requested: \$200,000 (direct costs). 2009. *Not Funded*.

Deafness Research Foundation. Early detection of carboplatin ototoxicity in pediatric cancer patients. P.I.: **Shaum P. Bhagat**. Amount requested: \$20,196. *Not Funded*. 2008.

American Hearing Research Foundation. Cochlear vulnerability to music exposure and measures of auditory efferent activity. P.I.: **Shaum P. Bhagat**. Amount requested: \$19,226. *Not Funded*. 2007.

American Speech-Language-Hearing Association. Advancing Academic-Research Careers Award. P.I.: **Shaum P. Bhagat**. Amount requested: \$4,920. *Not Funded*. 2006.

American Speech-Language-Hearing Foundation. New Century Scholars Program. Irrelevant Sounds and Memory in Children with and without Auditory Processing Disorders. P.I.: **Shaum P. Bhagat**. Co-P.I.: Emily Elliott, Ph.D., Department of Psychology, Louisiana State University. Amount requested: \$10,000. *Not Funded*. 2006.

American Speech-Language-Hearing Association. Grant Program for Projects on Multicultural Activities. P.I.: **Shaum P. Bhagat**. Promoting Awareness of Audiology in an Asian Indian Population. Amount requested: \$8,689. *Not Funded*. 2006.

National Alliance for Autism Research. Research Award; Language and Communication. Physiological Assessment of Auditory Asymmetries in Children with Autism Spectrum Disorders.. P.I.: **Shaum Bhagat**. Amount requested: \$68,773. *Not Funded*. 2006.

American Speech-Language-Hearing Foundation New Century Scholars Research Grant. The Effects of Irrelevant Sounds on Memory in Children with Central Auditory Processing Disorders. P.I.: **Shaum P.**

Bhagat. Co-P.I.: Emily Elliott, Ph.D., Department of Psychology, Louisiana State University. Amount requested: \$10,000. *Not Funded.* 2005.

Louisiana Board of Regents Research Competitiveness Subprogram. Estimation of Hearing Thresholds with Auditory Evoked Potentials Elicited by Two Tones. P.I.: **Shaum Bhagat.** Amount requested: \$101,436. *Not Funded.*

LSU Council on Research (CoR) Summer Stipend Program. Musical Experience and the Classically Trained Cochlea. P.I.: **Shaum Bhagat.** Amount requested: \$5,000. *Not Funded.*

Scholarships

The University of Texas at Austin, University Continuing Fellowship/Sparrgrove Endowment Fellowship. Awarded for the 2001-2002 years.

The University of Texas at Austin, Jesse H. Jones Fellowship. Awarded for the 2001-2002 years.

The University of Arizona, Registration fee scholarship. Awarded for the 1994-1995 years.

Honors

Member, The Honor Society of Phi Kappa Phi

The University of Memphis 10-year service award for the period of 2005-2015.

Journal of the American Academy of Audiology article "Challenges in Ototoxicity Monitoring in the Pediatric Oncology Population" selected for JAAA Continuing Education Program, 2014.

Marquis Who's Who in America, 2009.

Scott Haug Outstanding Graduate Student Award, 2000.

TEACHING EXPERIENCE

The University of Memphis

Audiological Concepts, graduate course, 2008-2016.

Measurement Techniques, graduate course, 2006-2017.

Hearing Science, graduate course, 2005-2013.

Vestibular Assessment and Rehabilitation, graduate course, 2006-2017.

Hearing Conservation, graduate course, 2006-2011.

Electrophysiological Assessment of the Auditory System, graduate course, 2011.

Introductory Survey of Audiology, graduate course (2 lectures), 2008-2015.

Studebaker Lecture Series, graduate course, 2014-2016.

Diagnostic and Medical Audiology, graduate course, 2015.

The Honors Forum, undergraduate course, 2015.

Louisiana State University

Introduction to Audiology, undergraduate course, 2005.

Instrumentation and Methods for Speech and Hearing, graduate course, 2005.

Neuroanatomical Bases of Speech and Hearing, graduate course, 2005.

Industrial Audiology and Hearing Conservation, graduate course, 2004.

Diagnostic Audiology I, graduate course, 2003.

Diagnostic Audiology II, graduate course, 2004.

Auditory Rehabilitation of Adults, graduate course, 2005.

Professional Issues in Audiology, graduate course, 2004.

The University of Texas at Austin

Hearing Science, undergraduate course, 2001.

RESEARCH PRESENTATIONS

(*peer reviewed; † invited papers)

1. ***Bhagat, S.** (2017). A glimpse into cochlear tuning with stimulus-frequency otoacoustic emissions. Research Podium presented to AudiologyNow, Indianapolis, Indiana.
2. ***Bhagat, S.,** Yellamsetty, A., and Taylor, B. (2017). A comparison of Hypersound and conventional loudspeaker characteristics in an anechoic environment. Poster presentation presented to AudiologyNow, Indianapolis, Indiana.
3. *** Bhagat, S.,** Yellamsetty, A., and Taylor, B. (2017). Hypersound Audio System transmission characteristics in an anechoic chamber. Poster presentation accepted to the American Auditory Society's 44th Annual Scientific and Technology Conference, Scottsdale, Arizona.
4. ***Bhagat, S.** and Taylor, B. (2016). Evaluation of the Hypersound® Audio System in an anechoic environment. Poster presented to the American Auditory Society's 43rd Annual Scientific and Technology Conference, Scottsdale, Arizona.
5. ***Yellamsetty, A.** and **Bhagat S.** (2016). A critical study of perception of the double vowel. Poster presented to the American Auditory Society's 43rd Annual Scientific and Technology Conference, Scottsdale, Arizona.
6. **Bhagat, S.P.** (2016). An introduction to new hearing screening technologies in the NICU. Seminar presented to the 46th Mid-South Conference on Communicative Disorders, Memphis, Tennessee.
7. ***Bidelman, G.M.,** Nelms, C., and **Bhagat, S.P.** (2016). Musical experience sharpens human cochlear tuning. Poster presented to the Thirty-Ninth Annual MidWinter Research Meeting of the Association for Research in Otolaryngology, San Diego, California.

8. ***Bhagat, S.P.** and Yellamsetty, A. (2016). Masked tone thresholds are related to efferent-induced linearization of human DPOAE I/O functions. Poster presented to the Thirty-Ninth Annual MidWinter Research Meeting of the Association for Research in Otolaryngology, San Diego, California.
9. *Gulati, R., Yellamsetty, A., **Bhagat, S.**, and Talati, A.J. (2015). Comparison of conventional and novel hearing screening tests in NICU. Oral presentation given to the Southern Society for Pediatric Research, New Orleans, Louisiana.
10. *Gulati, R., Yellamsetty, A., **Bhagat, S.**, and Talati, A. (2015). Comparison of conventional and novel hearing screening tests in NICU. Poster session presented to the Annual Meeting of the Pediatric Academic Societies, San Diego, California.
11. *Bass, J.K., Hua, C., Huang, J., Onar-Thomas, A., Ness, K.K., Jones, S., White, S., **Bhagat, S.P.**, Chang, K.W., and Merchant, T.E. (2015). Hearing loss in patients treated with cranial radiation therapy for childhood cancer. Poster session presented to AudiologyNow! 2015, San Antonio, Texas.
12. ***Bhagat, S.P.**, Bidelman, G.M., and King, M.P. (2014). Optimizing otoacoustic emissions as biomarkers for hormone regulation in healthy women. Seminar presented to the American Speech-Language-Hearing Association Convention, Orlando, Florida.
13. ***Bhagat, S.P.** and King, M.P. (2014). The influence of middle-ear acoustic power measurements on psychophysical thresholds. Poster presented to the American Speech-Language-Hearing Association Convention, Orlando, Florida.
14. *Bass, J.K., Hua, C., Huang, J., Onar-Thomas, A., Ness, K.K., Jones, S., White, S., **Bhagat, S.P.**, Chang, K.W., Merchant, T.E. (2014). Incidence, onset, severity, and long-term progression of hearing loss in patients treated with cranial radiation therapy for childhood cancer. Poster presented to The European Symposium on Late Complications After Childhood Cancer, Edinburgh, Scotland.
15. *Kilgore, C. and **Bhagat, S.** (2013). Cumulative effect of brief, intense sound on otoacoustic emission amplitude. Poster presented to Audiology Now! 2013, Anaheim, California.
16. **Bhagat, S.** (2013). Update on Otoacoustic Emissions 2013, Mini seminar presented at the 43rd Annual Mid-South Conference on Communicative Disorders, Memphis, Tennessee.
17. ***Bhagat, S.** and Kilgore, C. (2013). The half-octave shift revisited: evidence from middle-ear power transmittance and stimulus-frequency otoacoustic emissions in humans. Poster presented to the 36th MidWinter Meeting of The Association for Research in Otolaryngology. Baltimore, Maryland.
18. *Tognola, G., **Bhagat, S.**, Paglialonga, A., Chiaramello, E. (2013). Evaluation of carboplatin chemotherapy on time-frequency features of transient-evoked otoacoustic emissions in children. Talk presented to the 11th EFAS Congress. Budapest, Hungary.
19. †**Bhagat, S.** (2012). Ototoxic hearing loss in children: implications for speech and language. Invited talk presented to the Arkansas Speech-Language Hearing Association. Little Rock, Arkansas.
20. ***Bhagat, S.**, Bass, J., Qaddoumi, I., Brennan, R., Paglialonga, A., & Tognola, G. (2012). Time-frequency analysis of TEOAE in children exposed to carboplatin. Poster presented to Audiology Now! 2012, Boston, Massachusetts.

21. *Gould, H., **Bhagat, S.**, & Pousson, M. (2012). Amplitude and latency of the VEMP across age: unmonitored vs. bp cuff. Poster presented to Audiology Now! 2012, Boston, Massachusetts.
22. **Bhagat, S.P.**, Bass, J.M., White, S.T., Qaddoumi, I., Wilson, M.W., & Rodriguez-Galindo, C. (2012). Monitoring carboplatin ototoxicity in children with distortion-product otoacoustic emissions: a feasibility study. Poster presented to the Pediatric Oncology Rehabilitation Conference, St. Jude Children's Research Hospital, Memphis, Tennessee.
23. *Orcutt, M.E. and **Bhagat, S.P.** (2011). Effect of caffeine on oculomotor and caloric tests. Poster presented to Audiology Now! 2011, Chicago, Illinois.
24. *Orcutt, M.E. and **Bhagat, S.P.** (2011). Effect of caffeine on vestibular-evoked myogenic potentials. Poster presented to Audiology Now! 2011, Chicago, Illinois
25. **Bhagat, S.P.** and Bass, J.K. (2011). Monitoring ototoxicity in pediatric cancer patients. Mini seminar presented at the 41st Annual Mid-South Conference on Communicative Disorders, Memphis, Tennessee.
26. *Jolissaint, R. and **Bhagat, S.** (2010). Frequency and occurrence of DP-gram peaks in multi-level DPOAE functions. Poster presented to Audiology Now! 2010, San Diego, California.
27. *O'Brien, M., **Bhagat, S.**, & Lucks-Mendel, L. (2010). DPOAE estimates of cochlear compression and speech perception in noise. Poster presented to Audiology Now! 2010, San Diego, California.
28. **Bhagat, S.P.**, Bass, J.M., White, S.T., Qaddoumi, I., Wilson, M.W., & Rodriguez-Galindo, C. (2010). Monitoring carboplatin ototoxicity in children with distortion-product otoacoustic emissions: a feasibility study. Poster presented to the 33rd MidWinter Meeting of The Association for Research in Otolaryngology. Anaheim, California.
29. **Bhagat, S.P.** (2010). Estimates of human cochlear compression from distortion-product otoacoustic emission input-output functions and tone detection. Talk presented at the 6th meeting of the MidSouth Chapter of the Acoustical Society of America, Conway, Arkansas.
30. *Tanedo, J.R. and **Bhagat, S.P.** (2009). The role of the medial olivocochlear efferent system and auditory attention. Poster presented at the 4th International NCRAR Conference, Portland, Oregon.
31. ***Bhagat, S.** (2009). Contralateral suppression of TEOAEs: reliability measures. Poster presented to the Academy Research Conference, Audiology Now! 2009, Dallas, Texas.
32. ***Bhagat, S.**, Bass, J., White, S., & Rodriguez-Galindo, C. (2009). Early detection of carboplatin ototoxicity in children with retinoblastoma. General research poster presented to the American Auditory Society Annual Meeting, Phoenix, Arizona.
33. ***Bhagat, S.P.**, and Bass, J. (2009). Monitoring ototoxicity in pediatric cancer patients. Learning Module presented at Audiology Now! 2009, Dallas, Texas.
34. Bass, J., and **Bhagat, S.P.** (2009). Monitoring ototoxicity in pediatric cancer patients. Mini seminar presented at the 39th Annual Mid-South Conference on Communicative Disorders, Memphis, Tennessee.
35. ***Bhagat, S.P.** and Xu, J. (2008). The influence of language experience on contralateral suppression of click-evoked otoacoustic emissions. Poster presented to the 10th International Workshop on the Mechanics of Hearing, Keele University, England.

36. ***Bhagat, S.P.** (2008). Analysis of wideband DPOAE spectra in normal-hearing adults. Poster presented at Audiology Now! 2008, Charlotte, North Carolina.
37. ***Bhagat, S.P.** and Davis, A.M. (2008). Short-term effects of MP3 player music on cochlear function. Poster presented at Audiology Now! 2008, Charlotte, North Carolina.
38. **Bhagat, S.P.** and Xu, J. (2008). Does language experience sensitize olivocochlear reflexes evoked by stimuli that vary in pitch? Poster presented to the 31st Annual MidWinter Meeting of the Association for Research in Otolaryngology, Phoenix, Arizona.
39. ***Bhagat, S.P.** (2007). Effects of monotic and dichotic interference tones on the 40 Hz auditory steady- state response. Paper presented to the XX International Evoked Response Audiometry Study Group (IERASG) Symposium, Bled, Slovenia.
40. ***Bhagat, S.P.** (2007). Monotic and dichotic 40-Hz ASSRs in normal-hearing adults. Research Podium presented at Audiology Now! 2007, Denver, Colorado.
41. **Bhagat, S.P.** (2007). New innovations in clinical applications of otoacoustic emissions. Paper presented at the 37th Mid-South Convention on Communicative Disorders, Memphis, Tennessee.
42. ***Bhagat, S.P.** (2006). The irrelevant sound effect: implications for children diagnosed with (C)APD. Poster session presented to the American Speech-Language-Hearing Association Convention, Miami, Florida.
43. ***Bhagat, S.P.** (2006). Cultural appropriateness of the Scan-C in Asian Indian children. Poster session presented to the American Speech-Language-Hearing Association Convention, Miami, Florida.
44. ***Bhagat, S.P.** (2006). Multimodal sensory assessment of children with auditory processing disorders. Paper presented at the 36th Mid-South Convention on Communicative Disorders, Memphis, Tennessee.
45. **Bhagat, S.P.** and Bacon, S.P. (2006). Electrophysiological correlates of modulation detection interference. Poster session presented at the 29th Annual MidWinter Meeting of the Association for Research in Otolaryngology, Baltimore, Maryland.
46. ***Bhagat, S.P.** and Elliott, E.M. (2005). Irrelevant sounds and memory in children with auditory processing disorders. Poster session presented at the American Speech-Language-Hearing Convention, San Diego, California.
47. ***Bhagat, S.P.** (2005). Binaural properties of vestibular-evoked myogenic potentials. Poster session presented at the 17th Annual Convention of the American Academy of Audiology, Washington, D.C.
48. †**Bhagat, S.P.** (2005). Early identification of hearing loss in children: implications for academic achievement. Paper presented at the Oxford Education Round Table, Oxford, England.
49. **Bhagat, S.P.** (2005). Contributions of contralateral sound to vestibular-evoked myogenic potentials. Poster session presented at the 28th Annual MidWinter Meeting of the Association for Research in Otolaryngology, New Orleans, Louisiana.

50. Klumpp, M. and **Bhagat, S.P.** (2005). Age-related effects of vestibular-evoked myogenic potentials. Poster session presented at the 28th Annual MidWinter Meeting of the Association for Research in Otolaryngology, New Orleans, Louisiana.
51. **Bhagat, S.P.** and Champlin, C.A. (2004). Evaluation of distortion products produced by the human auditory system. Poster session presented at the 27th Annual MidWinter Meeting of the Association for Research in Otolaryngology, Daytona Beach, Florida.
52. ***Bhagat, S.P.** and Champlin, C.A. (2002). Physiological indices of complex sound processing in human adults. Poster session presented at the American Auditory Society 2002 Scientific/Technology Meeting, Scottsdale, Arizona.
53. ***Bhagat, S.P.** and Martin, F.N. (2001). Forehead & mastoid bone-conduction threshold differences between ethnic groups. Poster session presented at the American Speech-Language-Hearing Association Convention, New Orleans, Louisiana.
54. ***Bhagat, S.P.** and Shetty, S.R. (2001). The University of Texas- El Salvador Initiative. Poster session presented at the American Academy of Audiology 13th Annual Convention, San Diego, California.
55. ***Bhagat, S.P.** and Champlin, C.A. (2000). Effect of frequency region and noise bandwidth on the AMFR. Paper presented at the 140th Meeting of The Acoustical Society of America, Newport Beach, California.
56. ***Bhagat, S.P.** and Champlin, C.A. (2000). Effects of frequency region and noise bandwidth on the AMFR. Poster session presented at the American Speech-Language-Hearing Association Convention, Washington, D.C.
57. ***Bhagat, S.P.** and Bhutada, A. (2000). Client perception of a prototype digital tinnitus masker. Poster session presented at the Academy of Rehabilitative Audiology Summer Institute 2000, Snowbird, Utah.

DOCTORAL STUDENT RESEARCH SUPERVISION

- Anne Davis (Au.D.) "Outer hair cell habituation to music presentation"-2007.
- Janice Tanedo (Au.D.) "Psychophysical and physiological measurements of selective auditory attention"- 2009.
- Rebecca Jolissaint (Au.D.) "Frequency and occurrence of peaks in DP-grams"- 2010.
- Mary O'Brien (Au.D.) "DPOAE estimates of cochlear compression and speech understanding in noise"- 2010.
- Cara Donahue (Au.D.) "Monitoring carboplatin ototoxicity with TEOAEs"- 2010.
- Carla Killins (Au.D.) "DPOAE fine structure at high frequencies"- 2011.
- Elaine Orcutt (Au.D.) "The effects of caffeine on vestibular function"-2011.
- Katie Isbell (Au.D.) "VEMP- A study on the impacts of gender and height"-2012.

Paul Carter (Au.D.) "Measures of cochlear efferent activity and MP3 music exposure"-2012.

Chelsea Kilgore (Au.D.) "Cumulative effect of loud tone exposure on otoacoustic emissions"-2013.

Johnnie Bass (Ph.D.) 2011- 2017.

Anusha Yellamsetty (Ph.D.) 2014- 2017.

Jessica Yoo (Ph.D.) 2016- 2017.

MEDIA COVERAGE

C. Kean. "MP3 Generation: Noise-induced hearing loss rising among children and adolescents," *ENT Today*, January 2010.

MULTI-CULTURAL EXPERIENCES

Exchange Student, St. Stephen's College, New Delhi, India, 1989-1990.

United States Peace Corps Volunteer, Guatemala, 1991-1992.

Workshop Coordinator, El Salvador, 2000.