

Curriculum Vita

Melanie L. Matthies

Birthdate/place: 12/18/54, Buffalo, NY USA

Education:

State University of New York at Buffalo 1976 B.A. Communicative Disorders & Sciences
Purdue University, West Lafayette, IN 1978 M.S. Audiology
University of Illinois at Urbana/Champaign 1984 Ph.D. Hearing Science

Graduate and Postdoctoral Training:

1977 - 1978 Teaching and Research Assistant, Purdue University
1978 - 1979 Clinical Audiologist, Community Hospital, Springfield, Ohio
1980 - 1984 Research Assistant, University of Illinois
1979 - 1989 Clinical Supervisor in Audiology, University of Illinois
1984 - 1985 Research Associate, University of Illinois
1986 - 1989 Visiting Assistant Research Professor, University of Illinois

Research and Academic Appointments:

1989 - 1992 Research Staff, Speech Communication Group, Research Laboratory of Electronics (RLE), Massachusetts Institute of Technology (MIT)
1992 - 1995 Research Scientist, Speech Communication Group, RLE, MIT
1995- present Research Affiliate, Speech Communication Group, RLE, MIT
1995 - 2001 Assistant Professor, Communication Disorders, Boston University (BU)
2001- present Associate Professor, Speech, Language and Hearing Sciences (SLHS), BU
2002- 2009 Director, Undergraduate and Doctoral Programs in SLHS, BU
2005- 2008 Associate Dean for Undergraduate Programs, Sargent College, BU
2006- 2007 Department co-chair *ad interim*, SLHS, BU (academic year 06/07)
2008- present Associate Dean, Sargent College, Boston University
2009- present Department Chair, SLHS, BU

Major Professional Service:

1986-2003 Editorial Consultant, Journal of Speech, Language, and Hearing Research
1998-2001 Reviewer, Ear and Hearing
2001-2002 American Institute of Physics Oral History Project- Completed extensive interviews and transcripts for a biography of Kenneth N. Stevens, a prominent Speech scientist at MIT.
2003 Conference program editor, "Sound to Sense: 50+ Years of Discoveries in Speech" an international conference sponsored by MIT Research Laboratory of Electronics, Speech Group
2002- 2005 Section Editor, Ear and Hearing, Cochlear Implants
2002- 2005 Editorial Board, Ear and Hearing
2003 Guest section editor, Journal of Speech and Hearing Research
2003-2008 Reviewer, Journal of Speech, Language, and Hearing Research

2001- present Reviewer, Journal of Phonetics
2000- present Reviewer, Journal of the Acoustical Society of America
2008- present Associate Editor-Speech, Journal of Speech, Language, and Hearing Research
2009- present Reviewer, Brain Research

Professional Societies:

American Auditory Society
American Statistical Association
Acoustical Society of America
American, Speech, Language, and Hearing Association
Academy of Rehabilitative Audiology
Hearing Loss Association

Honors:

Phi Beta Kappa
Phi Kappa Phi
Sigma Xi
Alpha Lambda Delta
American Speech and Hearing Foundation Young Investigator Award

ONGOING Research Support

Type: R01DC03007 Joseph Perkell, Ph.D. (PI)
Period: December 1, 2006 – November 30, 2010 Agency: NIH

“Effects on Hearing Status on Adult Speech Production”

The major goal of this project is to better understand the role that hearing plays in adult speech motor control by using a variety of listener groups, such as cochlear implant recipients, hearing aid users, persons who are pre-lingually deafened, elderly subjects, and normal-hearing young adults

Role: Subcontract PI

Type: R01DC01925 Joseph Perkell, Ph.D. (PI)
Period: December 1, 2003 – November 30, 2009 Agency: NIH

“Constraints and Strategies in Speech Production”

The major goal of this project is to study the motor control of speech with respect to its variability, efficiency, and communicative effectiveness. The research is designed to further develop and to test a theoretical framework that provides a synthesis of biomechanical constraints with economy of effort and perceptual strategies.

Role: Subcontract PI

Completed Grant Support:

Type: R01DC01925 Joseph Perkell, Ph.D.(PI) Period: December 1, 1998 – November 30, 2003 Agency: NIH “Constraints and strategies in speech production” from MIT
Role- Subcontract PI

Type: ONR/MURI program project 1997-2002 “Software and hardware models of event-based, auditory processing for real-world applications”. D. Mountain of Biomedical Engineering subcontract PI at BU and S. Shamma (PI) University of Maryland.

Role- Sub-project Leader

Selected peer-reviewed publications:

Matthies, M.L. and Carney, A.E. (1988). A modified speech tracking procedure as a communicative performance measure. Journal of Speech and Hearing Research **31**, 394-404.

Frick, L.R. and Matthies, M.L. (1989). Effects of external stimuli on spontaneous otoacoustic emissions. Ear and Hearing **9**, 190-197.

Paden, E.P., Matthies, M.L. and Novak, M.A. (1989). Recovery from OME-related phonologic delay following tube placement. Journal of Speech and Hearing Disorders **54**, 94-100.

Chambers, R.D., Matthies, M.L. and Griffiths, S.K. (1989). Correlations between various measures of head size and auditory brainstem response latencies. Hearing Research **41**, 179-188.

Bilger, R.C., Matthies, M.L., Hammel, D.R. and Demorest, W.R. (1990). Genetic implications of gender differences in the prevalence of spontaneous otoacoustic emissions. Journal of Speech and Hearing Research **33**, 418-432.

Perkell, J.S., Svirsky, M.A., Matthies, M.L. and Jordan, M.I., Trading relations between tongue-body raising and lip rounding in production of the vowel /u/. Perilus **XIV**, 17-20 (1991).

Perkell, J.S., Cohen, M.H., Svirsky, M.A., Matthies, M.L., Garabieta, I., and Jackson, M.T.T. (1992). Electro-magnetic midsagittal articulometer (EMMA) systems for transducing speech articulatory movements. Journal of the Acoustical Society of America **92**, 3078-3096.

Perkell, J.S. and Matthies, M.L. (1992). Temporal measures of anticipatory labial coarticulation for the vowel /u/: Within- and cross-subject variability. Journal of the Acoustical Society of America **91**, 2911-2925.

Perkell, J.S., Matthies, M.L., Svirsky, M.A., and Jordan, M.I. (1993). Trading relations between tongue-body raising and lip rounding in the production of the vowel /u/: A pilot "motor equivalence" study. Journal of the Acoustical Society of America **93**, 2948-2961.

Matthies, M.L., Svirsky, M.A., Lane, H.L. and Perkell, J.S. (1994). A preliminary study of the effects of cochlear implants on the production of sibilants. Journal of the Acoustical Society of America **96**, 1367-1373.

Lane, H., Wozniak, J., Matthies, M., Svirsky, M., and Perkell, J. (1995). Phonemic resetting vs. postural adjustments in the speech of cochlear implant users: an exploration of voice-onset time. Journal of the Acoustical Society of America **98**, 3096-3106.

- Perkell, J.S., Matthies, M.L., Svirsky, M.A. and Jordan, M.I. (1995). Goal-based speech motor control: A theoretical framework and some preliminary data. Journal of Phonetics 23, 23-35. Also in Disorders of motor speech: assessment, treatment, and clinical characterization. Robin, D.A., Yorkston, K.M., and Beukelman, D.R. (eds.) Paul H. Brookes, Baltimore (1996).
- Matthies, M.L., Svirsky, M.A., Perkell, J.S., and Lane, H. (1996). Acoustic and articulatory measures of speech production with and without auditory feedback from a cochlear implant. Journal of Speech and Hearing Research 39, 936-946.
- Perkell, J.S., Matthies, M.L., Lane, H., Wilhelms-Tricarico, R., Wozniak, J. and Guiod, P. (1997). Speech motor control: Segmental goals and the use of feedback. Speech Communication 22, 227-250.
- Svirsky, M.A., Stevens, K.N., Matthies, M.L., and Perkell, J.S. (1997). Tongue surface deformation during obstruent stop consonants. Journal of the Acoustical Society of America 102, 562-571.
- Lane, H., Wozniak, J., Matthies, M.L., Svirsky, M.A., Perkell, J.S., O'Connell, M. and Manzella, J. (1997). Regularity of fundamental frequency and amplitude contours with and without auditory feedback. Journal of the Acoustical Society of America 101, 2244-2252
- Lane, H., Perkell, J., Wozniak, J., Manzella, J., Guiod, P., Matthies, M., MacCollin, M., and Vick, J. (1998). The effect of changes in hearing status on speech sound level and speech breathing: A study conducted with cochlear implant users and NF-2 patients. Journal of the Acoustical Society of America 104, 3059-3069.
- Bilger, R.C., Matthies, M.L., Meyer, T.A., and Griffiths, S.K. (1998). Psychometric equivalence of recorded spondaic words as test items. Journal of Speech, Language, and Hearing Research 41, 516-526.
- Guenther, F.H., Espy-Wilson, C.Y., Boyce, S.E., Matthies, M.L., Zandipour, M., and Perkell, J.S. (1999). Articulatory tradeoffs reduce acoustic variability during American English /r/ production. Journal of the Acoustical Society of America 105, 2854-2865.
- Perkell, J.S., Guenther, F.H., Lane, H., Matthies, M.L., Perrier, P., Vick, J., Wilhelms-Tricarico, R., and Zandipour, M. (2000). A theory of speech motor control and supporting data from speakers with normal hearing and with profound hearing loss. Journal of Phonetics 28, 233-272.
- Perrier, P., Payan, Y., Perkell, J., Zandipour, M., Pelorson, X., Coisy, V., and Matthies, M. (2000). An attempt to simulate the fluid-walls interaction during velar stops. In 5th Seminar of Speech Production: Models and Data; Institut fur Phonetik und Sprachliche Kommunikation, Munich 149-152.

- Vick, J., Lane, H., Perkell, J., Matthies, M., Gould, J., Zandipour, M. (2001). Covariation of cochlear implant users' perception and production of vowel contrasts and their identification by listeners with normal hearing. Journal of Speech, Language, and Hearing Research 44, 1257-1267.
- Gould, J., Lane, H., Vick, J., Perkell, J., Matthies, M., and Zandipour, M. (2001). Changes in speech intelligibility of postlingually deaf adults after cochlear implantation. Ear and Hearing 22, 453-460.
- Lane, H., Matthies, M.L., Perkell, J.S., Vick, J., and Zandipour, M. (2001). The effects of changes in hearing status in cochlear implant users on the acoustic vowel space and coarticulation. Journal of Speech, Language, and Hearing Research 44, 552-563.
- Matthies, M.L., Perrier, P., Perkell, J.S. and Zandipour, M. (2001). Variation in speech movement kinematics and temporal patterns of coarticulation with changes in clarity and rate. Journal of Speech, Language, and Hearing Research 44, 340-353.
- Perkell, J.S., Zandipour, M., Matthies, M.L., and Lane, H. (2002). Economy of effort in different speaking conditions. I. A preliminary study of intersubject differences and modeling issues. Journal of the Acoustical Society of America, 112, 1627-1641.
- Yampolsky, S., Waters, G., Caplan, D., Matthies, M., & Chiu, P. (2002). Effects of acoustic degradation on syntactic processing: Implications for the nature of the resource system used in language processing. Brain and Cognition, 48, 617-625.
- Perkell, J.S., Matthies, M.L., Guenther, F.H., Tiede, M., Zandipour, M., Stockmann, E. and Marrone, N. (2003). Sensory goals for speech movements: Cross-subject relations among production, perception and the use of an articulatory saturation effect, Proceedings of the 6th International Seminar on Speech Production, 219-224.
- Perkell, J.S., Guenther, F.H., Lane, H., Matthies, M.L., Stockmann, E., Tiede, M., and Zandipour, M. (2004). The distinctness of speakers' productions of vowel contrasts is related to their discrimination of the contrasts. Journal of the Acoustical Society of America 116, 2338-2344.
- Perkell, J.S., Matthies, M.L., Tiede, M., Lane, H., Zandipour, M., Marrone, N., Stockmann, E., and Guenther, F. (2004). The distinctness of speakers' /s/ and /sh/ contrast is related to their auditory discrimination and use of an articulatory saturation effect. Journal of Speech, Language and Hearing Research 47, 1259-1269.
- Lane, H., Denny, M., Guenther, F.H., Matthies, M.L., Menard, L., Perkell, J.S., Stockmann, E., Tiede, M., Vick, J., & Zandipour, M. (2005). Effects of bite blocks and hearing status on vowel production. Journal of the Acoustical Society of America, 118 1636-1646.
- Perkell, J.S., Guenther, J.H., Lane, H., Matthies, M.L., Stockmann, E., Tiede, M., Vick, J., and Zandipour, M. (2006). Production and perception of phoneme contrasts covary across

speakers in Speech Production: Models, **Phonetic Processes, and Techniques** eds. J. Harrington and M. Tabain Psychology Press 69-84, (2006).

Lane, H., Denny, M., Guenther, F., Hanson, H., Marrone, N., Matthies, M., Perkell, J., Stockmann, E., Tiede, M., Vick, J., and Zandipour, M. (2007). On the structure of phoneme categories in listeners with cochlear implants. Journal of Speech, Language and Hearing Research, 50, 2-14. Award for best paper in JSLHR-Hearing section 2007.

Ménard, L., Polak, M., Denny, M., Burton, E., Lane, H., Matthies, M., Marrone, N., Perkell, J., Tiede, M., and Vick, J. (2007). Interactions of speaking condition and auditory feedback on vowel production in postlingually deaf adults with cochlear implants. Journal of the Acoustical Society of America, 121, 3790-3801

Perkell, J., Denny, M., Lane, H., Guenther, F., Matthies, M., Tiede, M., Vick, J., Zandipour, M., and Burton, E. (2007). Effects of masking noise on vowel and sibilant contrasts in normal-hearing speakers and postlingually deafened cochlear implant users. Journal of the Acoustical Society of America, 121, 505-518.

Perkell, J., Lane, H., Denny, M., Matthies, M., Tiede, M., Zandipour, M., Vick, J., and Burton, E. (2007). Time course of speech changes in response to unanticipated short-term changes in hearing state. Journal of the Acoustical Society of America, 121, 2296-2311.

Lane, H., Matthies, M.L., Guenther, F.H., Denny, M., Perkell, J.S., Stockmann, E., Tiede, M., Vick, J., and Zandipour, M. (2007). Effects of short- and long-term changes in auditory feedback on vowel and sibilant contrasts. Journal of Speech, Language and Hearing Research 50, 913-217

Matthies, M.L., Guenther, F.H., Denny, M., Perkell, J.S., Burton, E., Vick, J., Lane, H., Tiede, M., and Zandipour, M. (2008). Perception and production of /r/ allophones improve with hearing from a cochlear implant. Journal of the Acoustical Society of America, 124, 3191-3202.

Selected published abstracts and conference papers (after 1995):

Perkell, J., Manzella, J., Wozniak, J., Matthies, M., Lane, H., Svirsky, M., Guiod, P., Delhorne, L., Short, P., MacCollin, M., and Mitchell, C. (1995). Changes in speech production following hearing loss due to bilateral acoustic neuromas. Proceedings of the XIIIth International Congress of Phonetic Sciences, Stockholm, Sweden.

Perkell, J. Matthies, M., Wilhelms-Tricarico, R., Lane, H. and Wozniak, J., (1996). Speech motor control: phonemic goals and the use of feedback. ECSA Tutorial and Research Workshop on Speech Production Modeling. Autrans, France.

Perrier, P., Perkell, J.S., and Matthies, M.L. (1996). Lip protrusion movements in normal versus clear speech. J. Acoust. Soc. Am. 99, pg 2472

- Wozniak, J.F., Matthies, M.L., Silberstein, V.G., Plant, G., and Lee-Hood, E.R. (1997). Vibrotactile aids and speech production of an early-deafened adult. ASHA Convention Program, pg 181.
- Perkell, J.S., Zandipour, M., and Matthies, M.L. (1997). Individual differences in cyclical and speech movement." J. Acoust. Soc. Am. 102, pg 3114.
- Guenther, F.H., Espy-Wilson, C.Y., Boyce, S.E., Matthies, M.L., Zandipour, M., Perkell, J.S. (1997). Articulatory tradeoffs reduce acoustic variability in American English /r/ productions. J. Acoust. Soc. Am. 102, pg 3094.
- Wozniak, J., and Matthies, M. (1998). The effects of supplementary feedback on the speech of an early-deafened adult. International Sensory Aids Conference, Portland ME.
- Plant, G., and Matthies, M. (1998). Subjective ratings of the speech of profoundly deafened adults." International Sensory Aids Conference, Portland ME.
- Perkell, J.S., Matthies, M.L., and Zandipour, M. (1998). Motor equivalence in the production of /sh/." J. Acoust. Soc. Am. 103, pg 3085.
- Stevens, K.S., Manuel, S., and Matthies, M. (1999). Revisiting place of articulation measures for stop consonants: Implications for models of consonant production. Proceedings of the International Congress of Phonetic Sciences.
- Lane, H., Perkell, J., Wozniak, J., Manzella, J., Guidod, P., Matthies, M., Mac Collin, M., Vick, J. (1999). Speech sound level and speech breathing in cochlear implant users. ASHA Leader 13, pg. 99.
- Mandel, A., Davis, L. J., Espy-Wilson, C., and Matthies, M.L. (1999). The use of spectral versus temporal cues to recognize speech. J. Acoust. Soc. Am. 106, pg. 2182.
- Perkell, J., Jackson, L., Zandipour, M., Vick, J., Lane, H., and Matthies, M. (1999). Rapid changes in speech parameters with a change in auditory stimulation from a cochlear implant. J. Acoust. Soc. Am. 105, pg. 1248.
- Stevens, K.N., Manuel, S.Y., and Matthies, M.L. (1999). Place of articulation for consonants: Comparing nasals and stops, and syllable position. J. Acoust. Soc. Am. 106, pg. 2244.
- Perrier, P., Payan, Y., Perkell, J., Zandipour, M., and Matthies, M. (1999). VCV synthesis from muscle commands. J. Acoust. Soc. Am. 105, pg. 1091.
- Matthies, M. L., Perkell, J. S., Vick, J. and Zandipour, M. (2000). Effects of cochlear-implants on sibilant production and perception., J. Acoust. Soc. Am. 108, pg.2601.

- Vick, J., Lane, H., Perkell, J., and Matthies, M. (2000). Speech perception, production, and intelligibility improvements in vowel-pair contrasts in adults who receive cochlear implants J. Acoust. Soc. Am. 108, pg. 2601.
- Perkell, J., Zandipour, M., Vick, J., Matthies, M., Lane, H., Guenther, F., and Gould, J. (2000). Rapid changes in speech production parameters in response to a change in hearing. Proceedings of the 5th Seminar on Speech Production & CREST Workshop on Models of Speech Production.
- Perrier, P., Payan, Y., Perkell, J., Zandipour, M., Pelorson, X., Coisy, V. and Matthies, M. (2000). An attempt to simulate the fluid-walls interactions during velar stops. Proceedings of the 5th Seminar on Speech Production & CREST Workshop on Models of Speech Production.
- Perkell, J., Guenther, F., Lane, H., Matthies, M., Payan, Y., Perrier, P., Vick, J., Wilhelms-Tricarico, R., and Zandipour, M. (2001). The sensorimotor control of speech production. Proceedings of the First International Symposium on Measurement, Analysis, and Modeling of Human Functions, Hokkaido University, Sapporo, Japan pp. 359-365.
- Perkell, J., Guenther, F., Lane, H., Matthies, M., Vick, J., and Zandipour, M. (2001). Planning and auditory feedback in speech production. Proceedings of the 4th International Nijmegen Speech Motor Conference.
- Vick, J., Lane, H., Perkell, J., Zandipour, M., and Matthies (2001). Sentence Intelligibility in postlingually deafened adults who receive cochlear implants. Conference on Implantable Auditory Prostheses, Asilomar, California.
- Tiede, M.K., Perkell, J.S., Zandipour, M., and Matthies, M. (2001). Gestural timing effects in the perfect memory sequence observed under three rates by electromagnetometry. J. Acoust. Soc. Am. 110, pg. 2657.
- Tiede, M.K., Matthies, M.L., Perkell, J.S., Zandipour, M., and Stockmann, E. (2002). Efficacy of proprioception in achieving vowel targets when acoustic feedback is blocked: An EMMA study of production under contrasting noise conditions. J. Acoust. Soc. Am. 112 pg 2418.
- Matthies, M. with Vick, J., Lane, H., Perkell, J., Zandipour, M. (2002). Biomechanical saturation and hearing status effects in determining goals for vowels: preliminary results from a bite block study. Conference on Speech Motor Control in Williamsburg, Virginia.
- Vick, J.C., Lane, H., Matthies, M., Zandipour, M., Stockmann, E., Guenther, F., and Tiede, M. (2002). Effects of hearing status and perturbation with a bite block on vowel production. J. Acoust. Soc. Am. 112 pg 2251.
- Perkell, J., Guenther, F., Lane, H., Matthies, M., Stockmann, E., Tiede, M., & Zandipour, M. (2003). Cross-subject relations between measures of vowel production and perception,

Proceedings of the XVth International Congress of Phonetics Sciences, Barcelona, 439-442.

Tiede, M., Perkell, J., Zandipour, M., Matthies, M. & Stockmann, E. (2003). A new approach to pressure-sensitive palatography using a capacitive sensing device, Proceedings of the XVth International Congress of Phonetics Sciences, Barcelona, 3149-3152.

Tiede, M., Perkell, J., Zandipour, M., Matthies, M., & Stockmann, E. (2003) A /t/ or not a /t/: apical tongue gestures in the 'perfect memory' sequence, 6th International Seminar on Speech Production, Sydney, Australia.

Vick, J.C., Perkell, J.S., Hanson, H., Lane, H., Matthies, M., Marrone, N., and Guenther, F. (2003). Changes in the categorical perception of speech sounds following experience with a cochlear implant. 2003 Conference on Implantable Auditory Prostheses, Pacific Grove, CA.

Liederman, J., McGraw Fisher, J., Coty, A., Alexander, R., Matthies, M., Frye, R. (2003). Reduction of the Phonemic Restoration Illusion in Adults with Reading Disability. Symposium presented at the annual meeting of the Society for Neuroscience, New Orleans, LA.

Perkell, J., Matthies, M., Guenther, F., Lane, H., Stockmann, E., Tiede, M., & Zandipour, M. (2004). Relationship between perceptual ability and the effects of perturbations on produced vowel contrasts, Conference on Motor Speech, Albuquerque, NM.

Liederman, J., McGraw Fisher, J., Coty, A., Matthies, M., Alexander, R., Mathews, G. and Frye, R. (2004). The Use of Context Information to Disambiguate Noisy Speech Signals: Deficits in Adults with Reading Disability. Poster session presented at the International Dyslexia Association annual conference, Philadelphia, PA.

Matthies, M.L., Guenther, F., Denny, M., Perkell, J., Stockmann, E., Vick, J., Tiede, M., & Lane, H. (2005). Perception and Production of /r/ allophones improve with hearing from cochlear implants. Journal of the Acoustical Society 118, Minneapolis MN, October 17-21, Session 3aSC11.

Perkell, J.S., Denny, M., Lane, H., Matthies, M.L., Stockmann, E., Tiede, M., and Zandipour, M. (2005). Effects of masking noise on vowel and sibilant contrasts in normal-hearing speakers and postlingually deafened cochlear implant users. Journal of the Acoustical Society of America 118, 3aSC9, page 1963.

Ménard, L., Denny, M., Lane, H., Matthies, M.L., Perkell, J.S., Stockmann, E., Vick, J., Zandipour, M., Balkany, T., Polack, M., and Tiede, M.K. (2005). Effects of speaking condition and hearing status on vowel production in postlingually deaf adults with cochlear implants. Journal of the Acoustical Society of America 118, 3aSC10, page 1964.

Tiede, M., Shattuck-Hufnagel, S., Johnson, B., Ghosh, S., Matthies, M., Zandipour, M., & Perkell, J. (2007) Gestural phasing in /kt/ sequences contrasting within and cross word

contexts, Proceedings of the 16th International Congress of Phonetic Sciences, Saarbrücken, Germany, Aug. 6-10, 521-524.

Hoover, E., Ellis, T., Matthies, M., and Tickle-Degnen, L. (2007) .An Evidence-Based Interdisciplinary Approach for Self-Management of Idiopathic Parkinson's Disease. Presented at the ASHA Convention, Boston MA.

Perkell, J.S., Matthies, M.L., Ghosh, S.S., Hanson, A., Guenther, F.H., Lane, H., Ménard, L., and Tiede, M. (2008). Auditory and somatosensory goals for sibilants. Journal of the Acoustical Society of America 123, 3pSCa1, page 3459.

Perkell, J.S., Ghosh, S.S., Guenther, F.H., Lane, H., Matthies, M.L., Ménard, L., and Tiede, M. (2008). Mechanisms of vowel production: Auditory goals and speaker acuity. International Seminar on Speech Production (12/08 Strasbourg).

Tiede, M., Mooshammer, C., Goldstein, L., Shattuck-Hufnagel, S., Perkell, J., and Matthies, M. (2009). Optimization of articulator trajectories in producing learned nonsense words. Journal of the Acoustical Society of America 125, page 2499.

Perkell, J.S., Matthies, M.L., Tiede, M. (2009). Evidence of an articulatory saturation effect in the production of /s/ in American English. Journal of the Acoustical Society of America 125, page 2569

Balz, M. and Matthies, M.L. (2009). Using automatic speech recognition with individuals who have Parkinson's Disease. Presented at the ASHA Convention, New Orleans, LA, page 84.

Matthies, M.L., Perkell, J.S., and Tiede, M. (2009). Sources of feedback in the /s/-/sh/ contrast. Presented at the ASHA Convention, New Orleans, LA, page 153.

Invited Talks:

Speech production changes with hearing loss from Neurofibromatosis II: Measures of voice. Seminar presented in the Biomedical Engineering Seminar series. Spring, 1997

Context effects with limited spectral information. J. Acoust. Soc. Am. 106, pg. 2177 (1999).

Boston University Hearing Research Center seminar, 701, "Cochlear implant effects on sibilant perception and production".

Workshop leader and panel member for the Sargent College Faculty Summer Institute on teaching Evidence-Based Practice in Rehabilitation. The two day symposium was sponsored by the Center for Rehabilitation Effectiveness at Sargent College and drew participants from across the country and Canada. May, 2002

Oppenheimer, B., Strand, K., and Matthies, M. "Pushing and shoving: Evidence-based practice in a MS-SLP curriculum. Invited paper presented at the American Speech, Language, and

Hearing Association Convention. November 18, 2004 in Philadelphia, PA. ASHA Leader page 78. Expanded to a day-long seminar and presented to faculty at Gallaudet University on May 20, 2005 at their invitation.

Women in Networks (NSF Advance Program) Mentoring Panel on Tenure and Career issues. December 11, 2008.

Courses taught at Boston University:

<u>Course</u>	<u>Semester</u>	<u>Number of students</u>
CD 815 Speech Perception and Intelligibility	Fall, 1995	(1)
CD 829 Advanced Aural Rehabilitation	Fall, 1995	(1)
CD 700 Research Methods	Spring, 1996	(19)
CD 542 Aural Rehabilitation	Fall, 1996	(45)
CD 700 Research Methods	Spring, 1997	(18)
CD 901 Directed Studies	Spring, 1997	(1)
CD 942 A1 Thesis Advising	Spring 1997	(1)
CD 542 Aural Rehabilitation	Fall, 1997	(46)
CD 700 Research Methods	Spring, 1998	(29)
CD 542 Aural Rehabilitation	Fall, 1998	(36)
CD 815 Speech Perception and Intelligibility	Fall, 1998	(3)
CD 901 Directed Studies	Fall. 1998	(1)
CD 700 Research Methods	Spring, 1999	(37)
CD 901 Directed Studies	Spring 1999	(1)
CD 542 Aural Rehabilitation	Fall, 1999	(34)
CD 700 Research Methods	Spring, 2000	(26)
CD 542 Aural Rehabilitation	Fall, 2000	(24)
CD 700 Research Methods	Spring, 2001	(22)
CD 542 Aural Rehabilitation	Fall, 2001	(26)
CD 700 Research Methods	Spring, 2002	(24)
CD 942 Thesis research	Spring, 2002	(1)
CD 542 Aural Rehabilitation	Fall, 2002	(22)
CD 815 Speech Perception and Intelligibility	Spring, 2003	(3)
CD 700 Research Methods	Spring, 2003	(31)
CD 535/630 Intro. to Audiology	Fall, 2003	(22)
CD 829 Advanced Aural Rehabilitation	Fall, 2003	(2)
CD 700 Research Methods	Spring, 2004	(25)
CD 535/630 Intro. to Audiology	Fall, 2004	(30)

CD 700 Research Methods	Spring 2005	(19)
CD 700 Research Methods	Fall, 2005	(34)
SH 700 Research Methods	Spring 2006	(33)
SH 700 Research Methods	Fall 2006	(30)
SH 640 Senior Seminar	Spring 2007	(14)
HP151 Introduction to Health Professions	Fall 2007	section A1 (10)
HP151 Introduction to Health Professions	Fall 2007	section A5 (9)
SH 700 Research Methods	Fall 2007	section A1 (26)
HP151 Introduction to Health Professions	Spring 2008	section A1 (11)
SH 700 Research Methods	Fall 2008	section A1 (32)
HP151 Introduction to Health Professions	Spring 2009	section A1 (12)
HP151 Introduction to Health Professions	Spring 2009	section A1 (5)
SH 700 Research Methods	Fall 2009	section A1 (24)
HP151 Introduction to Health Professions	Fall 2009	section A1 (15)

Departmental, College and University Service:

Department-Graduate Admissions Committee, Spring 1996
 Department-Sophomore Class Advisor, AY 95-96

BU Faculty Council Committee on Research Activities, Libraries and Support Services, AY 96-97
 Sargent College Undergraduate Education Committee, AY 96-97
 Sargent College Network Software Task Force, AY 96-97
 Department-Graduate Admissions Committee, Spring 1997
 Department-Sophomore Class Advisor, AY 96-97

BU Faculty Council Committee on Research Activities, Libraries and Support Services, AY 97-98
 Sargent College Undergraduate Education Committee, AY 97-98
 Sargent College Network Software Task Force, AY 97-98
 Department-Sophomore Class Advisor, AY 97-98

BU Faculty Council Committee on Research Activities, Libraries and Support Services, AY 98-99
 BU Science Day judge
 Chair- Sargent College Undergraduate Education Committee, AY 98-99
 Sargent Council Faculty Council, AY 98-99
 Sargent College Information Technology Task Force, AY 98-99
 Department-Sophomore Class Advisor, AY 98-99

BU Faculty Council Committee on research activities, libraries and support services, AY 99-00
 Chair- Sargent College Undergraduate Education committee, AY 99-00
 Sargent College Faculty Council, AY 99-00

Sargent College Strategic Planning committee, AY 99-00
Sargent College Faculty Outcomes Institute task force, AY 99-00
Sargent College Information Technology committee, AY 99-00
Department Graduate Admissions committee, AY 99-00
Department-Sophomore Class Advisor, AY 99-00

BU Faculty Council Committee on research activities, libraries and support services, AY 00-01
BU Science Day judge
Chair-Sargent College Undergraduate Education Committee, AY 00-01
Sargent College Faculty Council, AY 00-01
Sargent College Faculty Outcomes Institute task force, AY 00-01
Panelist, Occupational Therapy Conference, “Bridging Research, Policy, and Practice”
Department Graduate Admissions Committee, AY 00-01
Department Clinical Faculty Search Committee, AY 00-01
Department-Sophomore Class Advisor, AY 00-01
BU Faculty Council Committee on research activities, libraries and support services, AY 01-02
BU Committee on Academic Practices, AY 01-02
BU Science Day judge
Chair- Sargent College Undergraduate Education Committee, AY 01-02
Sargent College Faculty Council, AY 01-02
Department Faculty Search Committee, AY 01-02
Department Sophomore Class Advisor, AY 01-02
Department representative Pathways for Women 4/23/03

BU Faculty Council Committee on research activities, libraries and support services, AY 02-03
BU Center for Excellence in Teaching Advisory Board, AY 02-03
Chair, Sargent College Faculty Support Committee, AY 02-03
Sargent College Faculty Council, AY 02-03
Search Committee for Director of Health Science Program, AY 02-03
Department- Junior Class Advisor, AY 02-03

BU University Promotion and Tenure Committee, AY 03-04
BU Center for Excellence in teaching Advisory Board, AY 03-04
BU SPRInG 2004 proposal reviewer, Fall 2003
BU Science Day judge
Chair, Sargent College Faculty Support Committee, AY 03-04
Sargent College Faculty Council, AY 03-04
Department- Junior Class Advisor, AY 03-04

BU Faculty Council, SAR representative, AY 04-05
BU SPRInG 2005 proposal reviewer, Fall 2004
BU Academic Practices Committee, Spring 2005
BU Science Day judge
Sargent College Faculty Council, AY 04-05
Sargent Instructional Technology Task Force, AY 04-05
Department-Junior Class Advisor, AY 04-05

Diversity Committee Representative, CELEST for CNS NSF grant, AY 04-05

BU Faculty Council, SAR representative, AY 05-06

BU Science Day judge

Sargent College Faculty Council, AY 05-06

Sargent Instructional Technology Task Force, AY 05-06

Sargent College Undergraduate Education Committee, AY05-06

Sargent College Committee on Appointments, Promotion and Tenure, AY05-06

Sargent College Committee on Academic Policies and Procedures, AY05-06

Sargent College Administrative Advisory Council, AY05-06

Department- Junior Class Advisor, AY 05-06

Department- Chair Search Committee, AY 05-06

Diversity Committee Representative, CELEST for CNS NSF grant, AY 05-06

Boston University Task Force on Specialty Housing, AY06-07

Boston University Undergraduate Yield Committee, AY06-07

Boston University Summer Term Advisory Board, AY06-07

Boston University Council on Teacher Education, AY06-07

Sargent College Undergraduate Education Committee, AY06-07

Sargent College Committee on Appointments, Promotion and Tenure, AY06-07

Sargent College Committee on Academic Policies and Procedures, AY06-07

Sargent College Administrative Advisory Council, AY06-07

Sargent College member, Associate Dean for Research/Graduate Programs Search, AY 06-07

Sargent College member, Health Science Program Faculty Search Committee, AY 06-07

Department- Junior Class Advisor, AY 06-07

Department- member, Chair Search Committee, AY 06-07

Department- Chair, Faculty Search Committee, AY 06-07

Boston University Task Force on Specialty Housing, AY07-08

Boston University Undergraduate Yield Committee, AY07-08

Boston University Summer Term Advisory Board, AY07-08

Boston University Council on Teacher Education, AY07-08

Sargent College Undergraduate Education Committee, AY07-08

Sargent College Committee on Academic Policies and Procedures, AY07-08

Sargent College Administrative Advisory Council, AY07-08

Department- Junior Class Advisor, AY07-08

Department- member, Search Committee for faculty member, AY07-08

Department- Chair, Search Committee for Department Chair, AY07-08

Boston University Undergraduate Yield Committee, AY08-09

Boston University Undergraduate Council, AY08-09

Boston University Summer Term Advisory Board, AY08-09

Boston University Council on Teacher Education, AY08-09

Boston University Responsible Conduct of Research, Liaison and facilitator, AY08-09.

Boston University Office of Admissions Document Task Force, AY08-09

Boston University Provost Office, OneBU-Undergraduate Education Task Force, AY08-09

Sargent College Undergraduate Education Committee, AY08-09
Sargent College Graduate Education Committee, AY08-09
Sargent College Committee on Academic Policies and Procedures, AY08-09
Sargent College Administrative Advisory Council, AY08-09
Department- Junior Class Advisor, AY08-09
Department- Chair, Search Committee for Department Chair, AY08-09

Boston University Open House Task Force, AY09-10
Boston University Undergraduate Council, AY09-10
Boston University Summer Term Advisory Board, AY09-10
Boston University Council on Teacher Education, AY09-10
Boston University Responsible Conduct of Research, Liaison and facilitator, AY09-10.
Boston University Provost Office, OneBU-Undergraduate Education Task Force, AY09-10
Sargent College Undergraduate Education Committee, AY09-10
Sargent College Graduate Education Committee, AY09-10
Sargent College Committee on Academic Policies and Procedures, AY09-10
Sargent College Administrative Advisory Council, AY09-10
Department- Junior Class Advisor, AY09-10
Department- Chair, Search Committee for PTAT Department Chair, AY09-10

Special Projects:

Degree audit software for Sargent College of Health and Rehabilitation Sciences- Created framework to structure the program curricula and facilitate interaction with University Information Systems. Ongoing development and upgrades are needed to keep current.

Co-chair of the Sargent College commencement committee- Primary responsibility for Redbook, College Convocation Program and ceremony. Yearly work with parents, faculty and student representatives from Sargent and helped to interface with All University Functions.

Sargent College Website Committee- Ongoing work with BU New Media Group and Sargent colleagues and responsibilities for departmental and Student Academic Services content.

Student Research Advising:

AY 96-97: Thesis Committee Chair for Jane F. Wozniak “The effect of supplementary feedback on the speech production of an early deafened adult” (1st reader)

Dissertation Committee for Grace Owen Sanoguet “Pulsed-masking effects on the human brainstem auditory evoked response” (3rd reader)

AY 98-99: Clinical Doctoral Project Committee for Terri Casey “Diagnosis and outcome from 166 Dizzy patients” (3rd reader)

Thesis Committee member for Tara Renbeck “Perception and production of targeted lung volumes in speakers with spasmodic dysphonia” (2nd reader)

AY 99-00: Technical advisor for Louvere Walker “Effects of reverberation and spectral impoverishment on speech perception” Senior Project in Biomedical Engineering.

Dissertation Committee member for Phalguni Shah Deliwala “Effects of spatial separation and apparent signal movement on masked detection: Energetic and informational maskers” (2nd reader)

AY 00-01: Thesis Committee member for Jennifer L. Sullivan “A comparison of on-line and off-line syntactic processing in aphasia” (3rd reader)

AY 01-02: Thesis committee Chair for Beverly J. Montgomery “Connections: Syntax, semantics and pragmatics in a short narrative sample” (1st reader).

Clinical Doctoral Project Committee for Brian Fligor “Auditory risk assessment of portable compact disc players” (3rd reader)

Thesis committee member for Gayle DeDe “Sentence Comprehension in Aphasia: An examination of Three Theories” (3rd reader)

AY 02-03: Clinical Doctoral Project Committee for Guangwei Zhou “Measurements of vestibular evoked myogenic potentials elicited by clicks and tonebursts” (3rd reader)

Dissertation Committee for Tanya Arbogast “The effect of spatial separation on informational and energetic masking of speech in normal-hearing and hearing-impaired listeners” (2nd reader)

AY 03-04: Dissertation committee for Sasha Yampolsky, “On-line Syntactic Processing under Noise Masking and Memory Load” (3rd reader)

AY 04-05: Committee member for Kristin Gilbert, CAS Honors Thesis, “Phonemic Restorative Mechanism: A study of the effects of subsequent context on restorative ability.

AY 05-06: Committee Chair for Nicole Marrone, doctoral preliminary project research, “Audiovisual Integration in Hearing Aid and Normal-Hearing Listeners.”

Committee member for Nicole Marrone, pre-prospectus meeting about research in auditory localization and hearing Loss.

Mentor for Karen Chenausky, doctoral preliminary project research in effects of Parkinson’s disease on voice and speech production.

AY 06-07: Ongoing work with Karen Chenausky- Parkinson’s disease on voice and speech production

Mentor for Sarah More, Clinical research project in the area of face processing and communication of adults and children as a function of hearing status

AY 07-08: Ongoing work with Karen Chenausky- Automatic articulatory gesture tracking in Parkinson’s disease speech.

Mentor for Sarah More, Clinical research project in the area of face processing and communication of adults and children as a function of hearing status.

Clinical research project committee member for Christine Carter: “Stimulus Phase Effects on Auditory Brainstem Response (ABR) Latencies”.

AY 08-09: Ongoing work with Karen Chenausky- Automatic articulatory gesture tracking in Parkinson’s disease speech.

Mentor for Sarah More, Clinical research project in the area of face processing and communication of adults and children as a function of hearing status.

Master's Thesis advisor for Maggie Balz. Training an Automatic Speech Recognition System with clients who have Parkinson's Disease.

Master's Thesis Committee for Robyn Mierzejewski.

Undergraduate Honor's Thesis Committee (UNI): Kathryn McCabe

Undergraduate work for Distinction (CAS): Benjamin Schanker

Third Reader for Janet Fisher, Ph.D. dissertation in Psychology

AY 09-10: Karen Chenausky- Completed her mentored research project "Automatic articulatory gesture tracking in Parkinson's disease speech." Her preliminary project has the draft title of "Treatment for Auditory Sensitivities in Autism" and is taking a meta-analysis approach to this literature area.

Sarah More, Completed her Clinical research project in the area of face processing and communication of adults and children as a function of hearing status. Graduated 9/09

Master's Thesis advisor for Maggie Balz. Training an Automatic Speech Recognition System with clients who have Parkinson's Disease. Defended 9/09.