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Department of Speech & Hearing Sciences, Indiana University Bloomington

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PERSONAL INFORMATION

Address: 812 South Jordan Avenue, Bloomington IN 47401

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POSTDOCTORAL TRAINING

National Institutes of Health, Bethesda MD

1999 – 2004

National Institute of Neurological Disorders & Stroke

Laryngeal & Speech Section

Director: Christy L. Ludlow, Ph.D.

EDUCATION

Ph.D. Northwestern University, Evanston IL

1999

Department of Communication Sciences & Disorders

Voice pitch dynamics, guidance source & error correction

Advisor: Charles R. Larson, Ph.D.

M.A. Northwestern University, Evanston, IL

1991

Department of Communication Sciences & Disorders

B.A. University of California at Santa Barbara, Goleta CA

1989

Department of Speech & Hearing Sciences

ACCREDITATIONS

Certificate of Clinical Competence, Speech-Language Pathology

American Speech, Language, Hearing Association, Rockville MD

License, Speech-Language Pathology

California State Examining Committee, Sacramento CA

GRANT AWARDS

Career Transition Award (K22): \$477,000

2003 - 2007

National Institute of Neurological Disorders & Stroke

National Institutes of Health, Bethesda MD

Central integration of voice and sound

Dissertation Year Grant: \$750

1997

Northwestern University, Evanston IL

Effect of target characteristics on the use of auditory feedback

pitch for the control of voice F_0

TEACHING EXPERIENCE

Assistant Professor, Indiana University, Bloomington IN

Voice and Fluency in Children and Adolescents

Spring, 2005

Voice Disorders

Summer, 2005

Speech & Language Diagnostics

Spring, 2005

Graduate Teaching Assistant, Northwestern University, Evanston IL

1993 – 1999

Anatomy & Physiology of the Vocal Mechanism

Aphasia I

Augmentative & Alternative Communication

Diagnostic Procedures in Speech-Language Pathology

Speech Sound Learning

Voice II

CLINICAL EXPERIENCE

- Staff Speech Pathologist 1991 – 1993
 Sharp Memorial Hospital & Rehabilitation Center, San Diego CA
- Graduate Clinician 1991
 Northwestern Memorial Hospital, Chicago IL
 Northwestern University, Evanston IL 1989 – 1991

ADMINISTRATIVE EXPERIENCE

- Faculty-Student Liaison 1996 – 1997
 Northwestern University, Evanston IL

PUBLICATIONS: ARTICLES

- Burnett, T.A., Mann, E.A., Stoklosa, J.B., & Ludlow, C.L. (2005). Self-triggered functional electrical stimulation during swallowing. Journal of Neurophysiology.
- Burnett, T.A., Mann, E.A., Cornell, S.A., & Ludlow, C.L. (2003). Laryngeal elevation achieved by neuromuscular stimulation at rest. Journal of Applied Physiology 94(1): 128-134.
- Burnett, T.A. & Larson, C.R. (2002). Early pitch-shift response is active in both steady and dynamic voice pitch control. Journal of the Acoustical Society of America 112(3): 1058-63.
- Mann, E.A., Burnett, T.A., Cornell, S.A., & Ludlow, C.L. (2002). The effect of neuromuscular stimulation of the genioglossus on the hypopharyngeal airway. Laryngoscope 112(2): 351-6
- Larson, C.R., Burnett, T.A. Bauer, J., Kiran, S., & Hain, T.C. (2001) Comparison of voice F₀ responses to pitch-shift onset and offset conditions Journal of the Acoustical Society of America 110(6): 2845-8.
- Hain, T.C., Burnett, T.A., Larson, C.R. & Kiran, S. (2001). Effects of delayed auditory feedback (DAF) on the pitch-shift reflex. Journal of the Acoustical Society of America 109(5): 2146-52
- Hain, T.C., Burnett, T.A., Kiran, S., Larson, C.R., Singh, S. & Kenney, M.K. (2000). Instructing subjects to make a voluntary response reveals the presence of two components to the audio-vocal reflex. Experimental Brain Research 130(2): 133-41.
- Larson, C.R., Burnett, T.A., Kiran, S. & Hain, T.C. (2000). Effects of pitch-shift velocity on voice F₀ responses. Journal of the Acoustical Society of America 107(1): 559-64.
- Burnett, T.A., Freedland, M.B., Larson, C.R. & Hain, T.C. (1998). Voice F₀ responses to manipulations in pitch feedback. Journal of the Acoustical Society of America 103(6): 3153-61.
- Burnett, T.A., Senner, J.E. & Larson, C.R. (1997). Voice F₀ responses to pitch-shifted auditory feedback: a preliminary study. Journal of Voice. 11(2): 202-11.

PUBLICATIONS: BOOK CHAPTERS

- Larson, C.R., Carrell, T.D., Senner, J.E., Burnett, T.A. & Nichols, L.L. A proposal for the study of voice F₀ control using the pitch shifting technique. Proceedings of Vocal Fold Physiology: Voice Quality Control (Eds. O. Fujimura & M. Hirano), Singular, San Diego, 1995.
- Larson, C.R., White, J.P., Freedland, M.B. & Burnett, T.A. Interactions between voluntary pitch modulations & pitch-shifted feedback signals: Implications for neural control of voice pitch. Proceedings of Vocal Fold Physiology: Controlling Chaos & Complexity. (Eds. N. Fletcher & P.J. Davis), Singular, San Diego, 1996.

CONFERENCE PRESENTATIONS

- Burnett, T.A., Mann, E.A., Bielamowicz, S. & Ludlow, C.L. *Hyolaryngeal movements and upper esophageal sphincter pressure changes result from neuromuscular stimulation*. 11th Annual Meeting of the Dysphagia Research Society, Miami FL, October 2002.
- Burnett, T.A., Mann, E.A., Cornell, S., Stoklosa, J., & Ludlow, C.L. *Do muscle activation patterns change following neuromuscular stimulation during swallowing?* 10th Annual Meeting of the Dysphagia Research Society, San Antonio TX, October 2001.
- Burnett, T.A., Mann, E., Cornell, S.A., & Ludlow, C.L. *An evaluation of muscle stimulation for laryngeal elevation in humans*. Dysphagia Research Society. Savannah GA, October 2000.

- Burnett, T.A., Hain, T.C., & Larson, C.R. *Voice pitch oscillations following auditory feedback pitch shifts*. 10th Biennial Conference on Motor Speech. San Antonio TX, 2000.
- Burnett, T.A. & Larson, C.R. *Effect of referent source & dynamics on voice F₀ stability in the presence of auditory feedback pitch perturbations*. 137th meeting of the Acoustical Society of America, Berlin Germany, 1999.
- Burnett, T.A. & Larson, C.R. *Following vs. compensating voice F₀ responses to shifts in auditory feedback pitch*. 2nd International Conference on Voice Physiology & Biomechanics, Berlin Germany, 1999.
- Hain, T.C., Burnett, T., Larson, C.R. *Performance of a simple feedback model of F₀*. Meeting of the Association for Research in Otolaryngology, 1999.
- Burnett, T.A. & Larson, C.R. *Voice F₀ responds to auditory feedback pitch shifts during both steady & dynamic vocal behaviors*. 136th Meeting of the Acoustical Society of America, Norfolk VA, 1998.
- Burnett, T.A., Larson, C.R., Kiran, S., & Hain, T.C. *Comparison of voice F₀ responses to pitch-shift onset vs. offset conditions*, Speech Motor Control, Tucson AZ, 1998.
- Larson, C.R., Burnett, T.A., Singh, S. & Kiran, S. *Effects of instructions on vocal responses to pitch shift stimuli*. Society for Neuroscience, New Orleans LA, 1997.
- Burnett, T.A., Kiran, S., Larson, C.R., & Hain, T.C. *Voice F₀ responses to feedback pitch are not affected by speed of stimulus onset*. 134th Meeting of the Acoustical Society of America, San Diego CA, 1997.
- Larson, C.R., Burnett, T.A., Freedland, M.B. & Hain, T.C. *Voice F₀ responses to manipulations in pitch feedback stimuli*. First International Conference on Voice Physiology & Biomechanics, Evanston IL, 1997.
- Burnett, T.A., Singh, S.A., Kiran, S. & Larson, C.R. *Effects of task instruction on voice F₀ responses to auditory feedback pitch shifts*. Third Joint Meeting of the Acoustical Society of America & the Acoustical Society of Japan, Honolulu HA, 1996.
- Burnett, T.A., Larson, C.R., Freedland, M.B. & White, J.P. *Differential effects of pitch shift duration on voice F₀ control*, Speech Motor Control Conference, Amelia Island FL, 1996.
- Freedland, M.B., Larson, C.R., Burnett, T.A. & White, J.P. *The effects of loudness and noise on voice control in response to pitch shift stimuli*. Speech Motor Control Conference, Amelia Island FL, 1996.
- Larson, C.R., Carrell, T.D., Senner, J.E. & Burnett, T.A. *Pitch shifting for the study of voice F₀ control*. American Speech & Hearing Association, New Orleans LA, 1994.
- Burnett, T.A., Senner, J.E., Carrell, T.D. & Larson, C.R. *Changes in F₀ following auditory feedback pitch shifting*. American Speech & Hearing Association, New Orleans LA 1994.

AWARDS

- 3rd Place Oral Presentation 2002
 11th Annual Meeting of the Dysphagia Research Society, Miami FL
Hyolaryngeal movements and upper esophageal sphincter pressure changes result from neuromuscular stimulation.
- 2nd Place Poster 2000
 9th Annual Meeting of the Dysphagia Research Society, Savannah GA
An evaluation of muscle stimulation for laryngeal elevation in humans.

PROFESSIONAL ACTIVITIES

- Editorial Consultant 2000 –2003
 Journal of Speech, Language, & Hearing Research (Speech)
- Ad hoc Reviewer
 American Journal of Speech-Language Pathology
 Journal of the Acoustical Society of America
 Journal of Applied Physiology
 Journal of Speech, Language, & Hearing Research
 Eurospeech/Interspeech 2003 Conference

PROFESSIONAL ASSOCIATION MEMBERSHIPS

Acoustical Society of America	1997 - present
American Speech-Language Hearing Association	1991 - present
Dysphagia Research Society	2001 - 2004
Organization for Human Brain Mapping	2003 - present
Society for Neuroscience	2001 - present

RESEARCH MENTORSHIP

NINDS Summer Program in the Neurological Sciences	2001
Blair Magnet High School Research Program	2002
Indiana University Department of Speech & Hearing Sciences Undergraduate Honors Program	2005