

Curriculum Vitae for Christopher Dromey

Education

1992-1995	University of Colorado at Boulder Ph.D. in Speech Pathology/Speech Science
1987-1990	State University of New York at Buffalo MA in Speech-Language Pathology
1983-1985	Brigham Young University BA in German - Magna cum laude
1979-1981	Brock University Two years completed

Professional Experience

September 2008 to present	Professor Brigham Young University - Communication Disorders
September 2003 to Aug 2008	Associate Professor Brigham Young University - Communication Disorders
June 2000 to Aug 2003	Assistant Professor Brigham Young University - Communication Disorders
September 1996 to May 2000	Speech Scientist Toronto Western Hospital - Department of Speech-Language Pathology
September 1996 to May 2000	Assistant Professor University of Toronto - Department of Speech-Language Pathology
September 1995 to July 1996	Research Associate University of Colorado, Boulder
September 1992 to August 1995	Research Assistant University of Colorado, Boulder
July 1990 to July 1992	Speech-Language Pathologist Royal Victoria Hospital, Barrie, Ontario
Sept. 1989 to June 1990	Research Assistant State University of New York at Buffalo

Peer Reviewed Publications

- Dromey, C., & Simmons, K. (in press). Bidirectional interference between simulated driving and speaking. Manuscript accepted for publication in the Journal of Speech, Language, and Hearing Research.
- Whitfield, J., Dromey, C. & Palmer, P. (2018). Examining acoustic and kinematic measures of articulatory working space: Effects of speech intensity. *Journal of Speech, Language, and Hearing Research*, 61, 1104-1117.
- Dromey, C., Hunter, E.H., & Nissen, S.L. (2018). Speech adaptation to kinematic recording sensors: Perceptual and acoustic findings. *Journal of Speech, Language, and Hearing Research*, 61, 593-603.
- Dromey, C. & Black, K.M. (2017). Effects of laryngeal activity on articulation. *IEEE Transactions on Audio, Speech and Language Processing*, 25, 2272-2280.
- Tanner, K., Dromey, C., Berardi, M. L., Mattei, L. M., Pierce, J. L., Wisco, J. J., Hunter, E. J. and Smith, M. E. (2017), Effects of voice-sparing cricotracheal resection on phonation in women. *The Laryngoscope*, 127, 2085-2092.
- Tanner, K., Fujiki, R.B., Dromey, C., Merrill, R.M., Robb, W., Kendall, K.A., Hopkin, J.A., Channell, R.W., & Sivasankar, P. (2016). Laryngeal desiccation challenge and nebulized isotonic saline in healthy male singers and nonsingers: Effects on acoustic, aerodynamic, and perceptual measures. *Journal of Voice*, 30, 670-676.
- Roy, N., Fetrow, R.A., Merrill, R.M., & Dromey, C. (2016). Exploring the clinical utility of relative fundamental frequency (RFF) as an objective measure of vocal hyperfunction. *Journal of Speech, Language and Hearing Research*, 59, 1002-1017.
- Dromey, C. (2016). Understanding the role of subsystems in speech and their interactions in evaluating symptomatology in motor speech disorders. In *Speech motor control in normal and disordered speech: Future developments in theory and methodology*. Edited by Pascal van Lieshout, Ben Maassen, and Hayo Terband. pp. 173-194, ASHA Press.
- Dromey, C. & Scott, S. (2016). The effects of noise on speech movements in young, middle-aged, and older adults. *Speech, Language and Hearing*, 19, 131-139.
- Bailey, D. & Dromey, C. (2015). Bidirectional interference between speech and non-speech tasks in younger, middle-aged and older adults. *Journal of Speech, Language, and Hearing Research*, 58, 1637-1653.
- Dromey, C., Holmes, S.O., Hopkin, J.A. & Tanner, K.M. (2015). The effects of emotional expression on vibrato. *Journal of Voice*, 29, 170-181.

- Dromey, C., Boyce, K., & Channell, R.W. (2014). Effects of age and syntactic complexity on speech motor performance. *Journal of Speech, Language, and Hearing Research*, 57, 2142-2151.
- Foreman, K.B., Sondrup, S., Dromey, C., Jarvis, E., Nissen, S. & Dibble, L.E. (2013). The effects of practice on the concurrent performance of a speech and postural task in persons with Parkinson disease and healthy controls. *Parkinson's Disease*, vol. 2013, Article ID 987621, 8 pages.
- Dromey, C., Jang, G-O, & Hollis, K. (2013) Assessing correlations between lingual movements and formants. *Speech Communication*, 55, 315-328.
- Mauszycki, S.C., Wambaugh, J.L. & Dromey, C. (2012). Electropalatographic measures of stop consonants in speakers with and without apraxia of speech on repeated sampling occasions. *Journal of Medical Speech-Language Pathology* 20, 77-81.
- Shaw, S.M., Thomson, S.L., Dromey, C. & Smith, S. (2012). Frequency response of synthetic vocal fold models with linear and nonlinear material properties. *Journal of Speech, Language, and Hearing Research*, 55, 1395-1406.
- Dromey, C., Heaton, E. & Hopkin, J.A. (2011). The acoustic effects of vowel equalization training in singers. *Journal of Voice*, 25, 678-682.
- Dromey, C. & Bjarnason, S. (2011). A preliminary report on disordered speech with deep brain stimulation in individuals with Parkinson's disease. *Parkinson's Disease*, 2011, 1-11.
- Dromey, C. (2011). Traditional treatment and altered auditory feedback lead to intelligibility benefits in a subset of speakers with Parkinson disease. *Evidence-based Communication Assessment and Intervention*, 5, 15-18.
- Carter, N.J., Hopkin, J.A. & Dromey, C. (2010). Volitional control of vibrato. *Journal of Singing*, 67, 9-17.
- Dromey, C., Jarvis, E., Sondrup, S., Nissen, S., Foreman, K.B. & Dibble, L.E. (2010). Bidirectional interference between speech and postural stability in individuals with Parkinson's disease. *International Journal of Speech-Language Pathology*, 12, 446-454.
- Tanner, K., Sauder, C., Thibeault, S., Dromey, C. & Smith, M.E. (2010). Vocal fold bowing in elderly male monozygotic twins: A case study. *Journal of Voice*, 24, 470-476.
- Dromey, C. (2010). Laryngeal articulatory coupling in three speech disorders. In P Van Lieshout, B. Massen, & H. Terband (Eds.), *Speech motor control: New developments in basic and applied research*. pp 283-296. Oxford: Oxford University Press.
- Dromey, C. (2010). Louder speech leads to greater intelligibility improvements than amplification of habitual speech in Parkinson disease. *Evidence-based Communication Assessment and Intervention*, 4, 45-48.

- Jarvis, E., Sondrup, S., Dromey, C., Foreman, K.B., & Dibble, L.E. (2009). Dual task effects on motor performance of postural and speech tasks: Preliminary evidence for a posture-first strategy? [Abstract] *Journal of Neurologic Physical Therapy*, 33, 224-232.
- Awan, S.N., Roy, N. & Dromey, C. (2009). Estimating dysphonia severity in continuous speech: Application of a multiparameter spectral/cepstral model. *Clinical Linguistics and Phonetics*, 23, 825-841.
- Dromey, C. & Sanders, M. (2009). Intra-speaker variability in palatometric measures of consonant articulation. *Journal of Communication Disorders* 42, 397-407.
- Roy, N., Smith, M.E., Dromey, C., Redd, J., Neff, S. & Grennan, D. (2009). Phonatory effects of external superior laryngeal nerve paralysis: An in vivo model. *Laryngoscope*, 119, 816-826.
- Roy, N., Barton, M.E., Smith, M.E., Dromey, C. & Merrill, R.M. (2009). An in vivo model of external superior laryngeal nerve paralysis: Laryngoscopic findings. *Laryngoscope*, 119, 1017-1032.
- Dromey, C., Reese, L., & Hopkin, J.A. (2009). Laryngeal level amplitude modulation in vibrato. *Journal of Voice*, 23, 156-163.
- Roy, N., Nissen, S., Dromey, C. & Sapir, S. (2009). Articulatory changes in muscle tension dysphonia: Evidence of formant expansion following manual circumlaryngeal therapy. *Journal of Communication Disorders*, 42, 124-135.
- Dromey, C. & Shim, E. (2008). The effects of divided attention on speech motor, verbal fluency, and manual task performance. *Journal of Speech, Language, and Hearing Research*, 51, 1171-1182.
- Dromey, C. & Smith, M.E. (2008). Vocal tremor and vibrato in the same person: acoustic and electromyographic differences. *Journal of Voice*, 22, 541-545.
- Dromey, C., Nissen, S., Roy, N., & Merrill, R. (2008). Articulatory changes following treatment of muscle tension dysphonia: Preliminary acoustic evidence. *Journal of Speech, Language, and Hearing Research*, 51, 196-208.
- Nissen, S.L., Dromey, C., & Wheeler, C. (2007). First and second language tongue movements in Spanish and Korean bilingual speakers. *Phonetica* 64, 201-216.
- Mauszycki, S.C., Dromey, C. & Wambaugh, J.L. (2007). Variability in apraxia of speech: A perceptual, acoustic, and kinematic analysis of stop consonants. *Journal of Medical Speech-Language Pathology*, 15, 223-242.
- Dromey, C., Reese, A., & Howey, S. (2007). Lip kinematics in spasmodic dysphonia before and after treatment with botulinum toxin. *Journal of Medical Speech-Language Pathology*, 15, 263-277.

- Dromey, C., Nissen, S., Nohr, P. & Fletcher, S.G. (2006). Measuring tongue movements during speech: Adaptation of a magnetic jaw-tracking system. *Speech Communication*, 48, 463-473.
- Dromey, C., Silveira, J. & Sandor, P. (2005). Recognition of affective prosody by speakers of English as a first or foreign language. *Speech Communication*, 47, 351-359.
- Dromey, C. & Bates, E. (2005). Speech interactions with linguistic, cognitive, and visuomotor tasks. *Journal of Speech, Language and Hearing Research*, 48, 295-305.
- Dromey, C. & Benson, A. (2003). Effects of concurrent motor, linguistic or cognitive tasks on speech motor performance. *Journal of Speech, Language and Hearing Research*, 46, 1234-1246.
- Dromey, C. (2003). Spectral measures and perceptual ratings of hypokinetic dysarthria. *Journal of Medical Speech-Language Pathology*, 11, 85-94.
- Dromey, C., Carter, N. & Hopkin, A. (2003). Vibrato rate adjustment. *Journal of Voice*, 17, 168-178.
- Dromey, C., Warrick, P. & Irish, J. (2002). The influence of pitch and loudness changes on the acoustics of vocal tremor. *Journal of Speech, Language and Hearing Research*, 45, 879-890.
- Tingley, S. & Dromey, C. (2000). Phonatory-articulatory relationships: Do speakers with spasmodic dysphonia show aberrant lip kinematic profiles? *Journal of Medical Speech-Language Pathology*, 8, 249-252.
- Dromey, C. & Adams, S.G. (2000). Loudness perception and hypophonia in Parkinson disease. *Journal of Medical Speech-Language Pathology*, 8, 255-259.
- Dromey, C., Kumar, R., Lang, A., & Lozano, A. (2000). An investigation of the effects of subthalamic nucleus stimulation on acoustic measures of voice. *Movement Disorders*, 15, 1132-1138.
- Warrick, P., Dromey, C., Irish, J. & Durkin, L. (2000). The treatment of essential voice tremor with botulinum toxin A: A longitudinal case report. *Journal of Voice*, 14, 410-421.
- Dromey, C. (2000). Articulatory kinematics in patients with Parkinson disease using different speech treatment approaches. *Journal of Medical Speech-Language Pathology*, 8, 155-161.
- Warrick, P., Dromey, C., Irish, J., Durkin, L., Pakiam, A. & Lang, A. (2000). Botulinum toxin for essential tremor of the voice with multiple anatomical sites of tremor: A crossover design study of unilateral versus bilateral injection. *Laryngoscope*, 110, 1366-1374.
- Dromey, C. & Ramig, L.O. (1999). A response to Warren re: The effect of lung volume on selected phonatory and articulatory variables. *Journal of Speech, Language and Hearing Research*, 42, 620.

- Kapusta-Shemie, C., & Dromey, C. (1999). Acoustic and perceptual improvements in tracheoesophageal voice using a neck strap. *Journal of Otolaryngology*, 28, 102-104.
- Dromey, C. & Ramig, L.O. (1998). Intentional changes in sound pressure level and rate: Their impact on measures of respiration, phonation and articulation. *Journal of Speech, Language and Hearing Research*, 41, 1003-1018.
- Dromey, C. & Ramig, L.O. (1998). The effect of lung volume on selected phonatory and articulatory variables. *Journal of Speech, Language and Hearing Research*, 41, 491-502.
- Sapienza, C.M., Stathopoulos, E.T., & Dromey, C. (1998). Approximations of open quotient and speed quotient from glottal airflow and EGG waveforms: Effects of measurement criteria and sound pressure level. *Journal of Voice*, 12, 31-43.
- Busenbark, K., Ramig, L.O., Dromey, C., & Koller, W.C. (1996). Methazolamide for essential voice tremor. *Neurology*, 47, 1331-1332.
- Perez, K.S., Ramig, L.O., Smith, M.E. & Dromey, C. (1996). The Parkinson larynx: Tremor and videostroboscopic findings. *Journal of Voice*, 10, 354-361.
- Ramig, L.O., & Dromey, C. (1996). Aerodynamic mechanisms underlying treatment-related changes in vocal intensity in patients with Parkinson Disease. *Journal of Speech and Hearing Research*, 39, 798-807.
- Dromey, C., Ramig, L.O. & Johnson, A.B. (1995). Phonatory and articulatory changes associated with increased vocal intensity in Parkinson disease: A case study. *Journal of Speech and Hearing Research*, 38, 751-764.
- Smith, M.E., Ramig, L.O., Dromey, C., Perez, K.S. & Samandari, R. (1995). Intensive Voice Treatment in Parkinson Disease: Laryngostroboscopic Findings. *Journal of Voice*, 9, 453-459.
- Dromey, C., Stathopoulos, E.T., & Sapienza, C.M. (1992). Glottal airflow and electroglottographic measures of vocal function at multiple intensities. *Journal of Voice*, 6, 44-54.

Non-Refereed Publications

- Dromey, C., Yorkston, K. M., & Beukelman, D. R. (2006). Preface to special issue. *Journal of Medical Speech-Language Pathology*, 14(4), vi.
- Dromey, C. (2004). Documenting outcomes in vocal tremor. *Perspectives on Voice and Voice Disorders*, 14, 6-8. ASHA Special Interest Division 3 Continuing Education publication.

Manuscripts in Review

- Nissen, S.L., Blunck, S., Dromey, A., & Dromey, C. (in review). Listeners' ability to identify the gender of preadolescent children in different linguistic contexts. Manuscript submitted to *Phonetica*.
- Taylor, S., Dromey, C., Nissen, S.L., Tanner, K., Eggett, D. & Corbin-Lewis, K. (in review). Age-related changes in speech and voice: Spectral and cepstral measures. Manuscript submitted to the *Journal of Speech, Language, and Hearing Research*.

Peer Reviewed Conference Presentations

- Dromey, C. & Christensen, J. (2019). Acoustic-kinematic associations in diphthongs across speaking contexts. Poster presented at the Boston Speech Motor Control Symposium, Boston, MA.
- Pipkin-Litster, C., Webster, E., Stevens, M., Berardi, M., Dromey, C., Wisco, J., & Tanner, K. (2018). Tissue preservation and hydration effects in voice research. Poster presentation at the annual convention of the American Speech-Language Hearing Association, Boston, MA.
- Dromey, C. & Simmons, K. (2018). Bidirectional interference between simulated driving and speaking. Poster presented at the Conference on Motor Speech, Savannah, GA.
- Dromey, C., Palmer, P. & Whitfield, J. (2017). Effects of speech intensity on acoustic and kinematic articulatory working space. Poster presented at the 7th International Conference on Speech Motor Control, Groningen, Netherlands.
- Dromey, C. & Hunter, E. (2016). Speech adaptations to kinematic recording sensors. Poster presented at the 5th Joint Meeting Acoustical Society of America and Acoustical Society of Japan, Honolulu, HI.
- Dromey, C. & McKell, K. (2016). The association between articulator movement and formant trajectories in diphthongs. Poster presented at the 171st Meeting of the Acoustical Society of America, Salt Lake City, UT.
- Dromey, C. & Barber, K. (2016). The effects of laryngeal activity on articulatory kinematics. Paper presented at the Conference on Motor Speech, Newport Beach, CA.
- Whitfield, J.A., Dromey, C., & Palmer, P. (2016). Articulatory-acoustic and kinematic relationships in comfortable and loud speech. Paper presented at the Conference on Motor Speech, Newport Beach, CA.
- Bailey, J., McPherson, D., Bigler, E., Dromey, C., & Harris, R. (2015). Neuroplasticity of a patient with anterior left temporal lobe craniotomy observed with QEEG. Poster presented at the annual convention of the American Speech-Language Hearing Association in Denver, CO.

- Morris, K.L. & Dromey, C. (2015). The association between articulator movement and formant trajectories in diphthongs. Paper presented at the annual convention of the American Speech-Language Hearing Association in Denver, CO.
- McPherson, D.L., Perry, L., Harris, R.W., & Dromey, C. (2015). Scalp distribution of the mismatch negativity response to processing of vowel formants. Paper presented at the Third Conference of the Advanced Arab Academy of Audiovestibology, Amman, Jordan.
- Dromey, C. & Scott, S. (2014). Effects of auditory distractions on articulatory kinematics. Paper presented at the annual convention of the American Speech-Language Hearing Association in Orlando, FL.
- Fujiki, R.B., Robb, W.J., Tanner, K., Dromey, C., Kendall, K.A., Hopkin, J.A., Channell, R.W., & Sivasankar, P.M. (2014). The effects of laryngeal desiccation and nebulized isotonic saline in male singers and nonsingers. Poster presentation at the annual convention of the American Speech-Language Hearing Association in Orlando, FL.
- Bailey, D.J. & Dromey, C. (2014). Bidirectional interference between speech and non-speech tasks in college-age, middle-aged, and older adults. Paper presented at the Conference on Motor Speech, Sarasota, FL.
- Mauszycki, S., Eatchel, K., Wambaugh, J. & Dromey, C. (2014). Electropalatographic measures of stops on repeated sampling occasions. Poster presented at the Conference on Motor Speech, Sarasota, FL.
- McPherson D.L., Neff S., Ragsdale A., Harris, R.W. & Dromey (2014). Brain mapping of the mismatched negativity and the P300 to speech and non-speech stimulus processing. XXXII World Congress of Audiology, Brisbane, Australia.
- Buder, E.H., Dromey, C., Smith, M.E., Rose, J.W., Barton, M. & Corbin-Lewis, K. (2013). Modulations of SLP and F0 occur in suspected multiple sclerosis and increase with severity. Paper presented at the 8th International Workshop on Models and Analysis of Vocal Emissions for Biomedical Applications in Florence, Italy.
- Boyce, K., & Dromey, C. (2013). Effects of syntactic complexity on speech motor performance. Paper presented at the Annual Convention of the American Speech-Language-Hearing Association in Chicago, IL.
- Foreman, K.B., Sondrup, S., Dromey, C., Jarvis, E., Nissen, S.N. & Dibble, L.E. (2013). Dosing dual-task balance practice: The effects of age and Parkinson disease. Paper presented at the Movement Disorder Society Meeting, Sydney Australia, June 2013.
- Redd, E. & Dromey, C. (2012). The effect of a flattened prosodic contour on intelligibility in dysarthria. Presentation at the Annual Convention of the American Speech-Language-Hearing Association in Atlanta, GA.

- Dromey, C., Smith, M.E., Barton, M., Corbin-Lewis, K., & Buder, E.H. (2012). Vocal modulation in MS: A potential clinical marker. Poster presented at the Conference on Motor Speech, Santa Rosa, CA.
- Mauszycki, S., Dromey, C. & Wambaugh, J. (2012). Electropalatographic measures of stop consonants in speakers with and without apraxia of speech on repeated sampling occasions. Poster presented at the Conference on Motor Speech, Santa Rosa, CA.
- Dromey, C. & Bjarnason, S. (2011). Deep brain stimulation and speech: Acoustic and perceptual measures. Paper presented at the Annual Convention of the American Speech-Language-Hearing Association in San Diego, CA.
- Dromey, C. & Jang, G. (2011) The accuracy of predicting lingual movements from formants. Poster presentation at the 6th International Conference on Speech Motor Control in Groningen, Holland.
- Sondrup, S., Jarvis, E., Foreman, K.B., Dromey, C. & Dibble, L.E. (2011). The effects of age and Parkinson disease on motor learning during dual task practice. Paper presented at the Combined Section Meeting of the American Physical Therapy Association in New Orleans, LA.
- Dromey, C. & Jang, G. (2010). The association between acoustic and kinematic measures of lingual movement. Paper presented at the Annual Convention of the American Speech-Language-Hearing Association in Philadelphia, PA.
- Shaw, S., Smith, S.L., Thomson, S.L., & Dromey, C. (2010). Frequency response of synthetic vocal fold models. Poster presented at the Annual Convention of the American Speech-Language-Hearing Association in Philadelphia, PA.
- Dromey, C., Jarvis, E., Sondrup, S., Nissen, S., Foreman, K.B., & Dibble, L.E. (2010). Interactions between postural stability and speech individuals with Parkinson's disease. Paper presented at the Conference on Motor Speech in Savannah, GA.
- Jarvis, E., Sondrup, S., Dromey, C., Foreman, K.B., & Dibble L.E. (2010). Dual task effects on motor performance of postural and speech tasks: Preliminary evidence for a posture-first strategy? Paper presented at the American Physical Therapy Association Combined Sections Meeting in San Diego, CA.
- Awan, S., Roy, N., & Dromey, C. (2009). Estimating dysphonia severity in continuous speech: Application of cepstral analysis. Poster presented at the Annual Convention of the American Speech-Language-Hearing Association in New Orleans, LA.
- Dromey, C. & Sanders, M. (2008). Consonant articulation in young adults: a palatometric study. Poster presented at the Conference on Motor Speech, Monterey, CA.
- Dromey, C. & Reese, L. (2007). Laryngeal level amplitude modulation in vocal vibrato. Paper presented at the Annual Convention of the American Speech-Language-Hearing Association in Boston, MA.

- Dromey, C., Nissen, S.L., & Roy, N. (2006). Laryngeal-articulatory coupling in three speech disorders. Paper presented at the 5th International Conference on Speech Motor Control in Nijmegen, Holland, June 2006.
- Tanner, K., Sauder, C., Smith, M.E., Thibeault, S., & Dromey, C. (2006). The effects of vocal fold bowing in monozygotic twins: A case study. Paper presented at the 35th Annual Symposium of the Voice Foundation, in Philadelphia, PA.
- Dromey, C. & Hamblin, E. (2006). The effects of divided attention on speech kinematic, verbal fluency and manual motor performance. Paper presented at the Conference on Motor Speech, Austin, TX.
- Boucher, K., Dromey, C., Nissen, S., & Roy, N. (2005). Articulatory changes following treatment of MTD: Acoustic evidence. Poster presented at the Annual Convention of the American Speech-Language-Hearing Association in San Diego, CA.
- Dromey, C. & Smith, M.E. (2005). Vocal tremor and vibrato in the same person: Contrasting mechanisms. Paper presented at the Annual Convention of the American Speech-Language-Hearing Association in San Diego, CA.
- Roy, N., Dromey, C., Nissen, S., & Boucher, K. (2005). Acoustic evidence of articulatory changes accompanying voice treatment in muscle tension dysphonia. Paper presented at the UCSF Voice Conference, San Francisco, CA.
- Mauszycki, S.C., Dromey, C. & Wambaugh, J. (2005). Variability in apraxia of speech: A perceptual, acoustic, and kinematic analysis of stop consonants. Poster presented at the Clinical Aphasiology Conference, in Sanibel Island, FL.
- Smith, M.E., Dromey, C. & Titze, I.R. (2005). Studies on reflex mechanisms of vocal tremor production. Paper presented at the 34th Annual Symposium of the Voice Foundation, in Philadelphia, PA.
- Dromey, C. & Wheeler, C.S. (2004). First and second language articulatory kinematics in bilingual speakers. Poster presented at the Annual Convention of the American Speech-Language-Hearing Association in Philadelphia, PA.
- Dromey, C. & Bates, E. (2004). Interactions among speech, language, cognitive, and visual-motor activities. Paper presented at the Conference on Motor Speech, Albuquerque, NM.
- Dromey, C., Lee, D.J., Fletcher, S.G., Bates, D. & Xiaoqian, X. (2003). Lip shape measures and their association with tongue contact patterns. Poster presented at the Annual Convention of the American Speech-Language-Hearing Association in Chicago, IL.
- Mathews, T. & Dromey, C. (2003). Testing the validity of lab speech measurements. Poster presented at the Annual Convention of the American Speech-Language-Hearing Association in Chicago, IL.

- Dromey, C. & Miller, A. (2003). Labial kinematics in spasmodic dysphonia before and after Botox treatment. Paper presented at the Annual Convention of the American Speech-Language-Hearing Association in Chicago, IL.
- Lee, D.J., Bates, D., Dromey, C. & Xu, X. (2003). A vision system performing lip shape analysis for speech pathology research. Paper presented at the 29th Annual Conference of the IEEE Industrial Electronics Society, Roanoke, VA.
- Lee, D.J., Bates, D., Dromey, C., Xu, X. & Antani, S. (2003). An imaging system correlating lip shapes and tongue contact patterns for speech pathology research. The 16th IEEE International Symposium on Computer-Based Medical Systems, New York, NY.
- Dromey, C. & Carter, N. (2002). Rate adjustment in vibrato. Paper presented at the Annual Convention of the American Speech-Language-Hearing Association in Atlanta, GA.
- Dromey, C. (2002). Long term average spectral moments in hypokinetic dysarthria. Paper presented at the Conference on Motor Speech, Williamsburg, VA.
- McDonald, A.J., & Dromey, C. (2001). Prosodic stress and the Lombard effect. Paper presented at the Annual Convention of the American Speech-Language-Hearing Association in New Orleans, LA.
- Dromey, C. & Fletcher, S.G. (2001). Tracking tongue movements during speech. Paper presented at the Annual Convention of the American Speech-Language-Hearing Association in New Orleans, LA.
- Dromey, C. (2000). Volitional phonatory changes: what they reveal about vocal tremor patterns. Paper presented at the Annual Convention of the American Speech-Language-Hearing Association in Washington, D.C.
- Dromey, C., & Adams, S.G. (2000). Loudness perception and hypophonia in Parkinson disease. Paper presented at the Conference on Motor Speech, San Antonio, TX.
- Tingley, S., & Dromey, C. (2000). Articulatory kinematics in spasmodic dysphonia, pre and post botox. Poster presented at the Conference on Motor Speech, San Antonio, TX.
- Wood, S.J., Dromey, C., Irish, J.C., O'Sullivan, B., Brown, D.H., Gullane, P.J. (2000). Acoustic and aerodynamic changes in vocal function associated with primary radiation therapy for T1/T2 glottic carcinoma. Paper presented at the 5th International Conference on Head and Neck Cancer, San Francisco, CA.
- Wood, S.J., Dromey, C., Irish, J.C., O'Sullivan, B., Brown, D.H., Gullane, P.J. (2000). A prospective analysis of the effects of radiation therapy on vocal function in patients with early laryngeal carcinoma. Paper presented at the 54th meeting of the Canadian Society of Otolaryngology, Head and Neck Surgery, Toronto, Ontario.
- Dromey, C. (1999). Articulatory kinematics in Parkinson patients using different speech treatment approaches. Poster presented at the American Academy of Neurology conference in Toronto, Ontario.

- Dromey, C. (1999). Contrasting two treatment approaches for dysarthria: Articulatory kinematic data. Paper presented at the ASHA Annual Convention in San Francisco, CA.
- Dromey, C., & Ramig, L.O. (1998). SPL and rate change effects in healthy adults. Paper presented at the Conference on Motor Speech in Tucson, AZ.
- Warrick, P., Dromey, C., Irish, J., & Durkin, L. (1998). Botox injection for essential voice tremor. Paper presented at the Canadian Otolaryngology Society meeting in Montreal, Quebec.
- Durkin, L., Irish, J.C., & Dromey, C. (1997). Demographic characteristics of patients with spasmodic dysphonia. Paper presented at the Canadian Otolaryngology Conference in Whistler, British Columbia.
- Dromey, C., & Ramig, L.O. (1996). Global and component-specific modifications of speech. Paper presented at the Conference on Motor Speech at Amelia Island, FL.
- Ramig, L.O., Countryman, S., & Dromey, C. (1996). Efficacy of speech treatment for Parkinson disease: Two-year follow-up. Paper presented at the Conference on Motor Speech at Amelia Island, FL.
- Ramig, L.O., Countryman, S., Dromey, C., & Fox, C. (1996). Voice treatment for Parkinson disease: Two-year follow up. Paper presented at the ASHA Annual Convention in Seattle, WA.
- Horii, Y., Dromey, C., King, J. & Jancosek, E. (1994). Speaking-time ratio: Cross-language comparisons. Paper presented at the ASHA Annual Convention in New Orleans, LA.
- Perez, K.S., Ramig, L.O., Smith, M.E., & Dromey, C. (1994). Videostroboscopic findings in patients with Parkinson disease. Paper presented at the Annual Symposium of the Voice Foundation, Philadelphia, PA.
- Ramig, L.O., Dromey, C., & Johnson, A. (1994). The effects of intensive voice therapy on phonatory and articulatory acoustic variables. Paper presented at the Conference on Motor Speech in Sedona, AZ.
- Ramig, L.O., Dromey, C., & Johnson, A. (1994). Phonatory, respiratory, and articulatory effort: Treatment effects in Parkinson disease. Paper presented at the ASHA Annual Convention in New Orleans, LA.
- Dromey, C., Ramig, L.O., & Scherer, R.C. (1993). Aerodynamic and acoustic changes following intensive voice therapy for patients with Parkinson disease: A case study. Paper presented at the 126th Meeting of the Acoustical Society of America in Denver, CO.

Ramig, L.O., Dromey, C., & Scherer, R.C. (1993). Aerodynamic and acoustic characteristics of phonation in Parkinson disease following voice treatment. Paper presented at the ASHA Annual Convention in Anaheim, CA.

Scherer, R.C., Dromey, C., & Guo, C.G. (1993). Measurement accuracy of the Glottal Enterprises pneumotachograph system. Paper presented at the 126th Meeting of the Acoustical Society of America in Denver, CO.

Dromey, C., Stathopoulos, E.T., & Sapienza, C.M. (1990). Electroglottographic and glottal airflow duty cycle measurements at multiple intensities. Paper presented at the ASHA Annual Convention in Seattle, WA.

Invited Lectures

Kisenwether, J., Mandulak, K., & Dromey, C. (2018). Teaching the basic communication sciences: Creative approaches to excite and engage students. ASHA Live Online Chat.

Dromey, C. (2017). Association between kinematic and acoustic measures of diphthong production. Acoustics Research Group, Brigham Young University.

Dromey, C. (2017). Speech and swallowing in Parkinson's disease. PD support group, Provo, UT.

Dromey, C. (2016). Speech and swallowing in Parkinson's disease. PD support group, Provo, UT.

Dromey, C. (2015). Speech and swallowing in Parkinson's disease. PD support group, Provo, UT.

Dromey, C. (2015). Speaking while doing other things. Presentation to the New Zealand Institute of Language, Brain and Behavior, Christchurch, New Zealand.

Dromey, C. (2014). Speech and swallowing in Parkinson's disease. Keynote address at the Parkinson's Disease Symposium, University of Utah.

Finan, D., Tasko, S., Dromey, C., Mandulak, K. & Neel, A. (2013) Speech Science: Does Anybody Know How to Teach This Stuff? Panel presentation at the Annual Convention of the American Speech-Language-Hearing Association in Chicago, IL.

Dromey, C. (2012). Vibrato and vocal tremor: Similarities and differences. Presentation at the University of Memphis.

Dromey, C. (2010). Making the unintelligible intelligible. Panel presentation at the Annual Convention of the American Speech-Language-Hearing Association in Philadelphia, PA.

- Patel, R., Parham, D., & Dromey, C. (2009). Think tech: Using everyday technologies in the motor speech clinic. Presentation at the Annual Convention of the American Speech-Language-Hearing Association in New Orleans, LA.
- Dromey, C. (2008). Neurological voice and speech disorders. Seminar presented to speech language pathologists at La Trobe University, Melbourne, Australia.
- Dromey, C. (2007). Measuring speech acoustics: relevant parameters for movement disorders. Paper presented at the 1st International Symposium on Basal Ganglia Speech Disorders and Deep Brain Stimulation in London, England.
- Dromey, C. (2002). Manipulation of loudness in the treatment of dysarthria. Short course presentation at the annual convention of the American Speech-Language-Hearing Association in Atlanta, GA.
- Dromey, C. (1998). Research methodologies and statistics: What the health care professional needs to know. ABCs of Research Conference, Rehabilitation Institute of Toronto.
- Dromey, C. (1996). Changes in speech intensity: Some causes and effects. Paper presented at the ASHA Annual Convention in Seattle, WA.

Theses Directed

- active Amelia Jackson, M.S. Source/filter interactions
- active Mendy Peacock, M.S. Speech kinematic changes with laryngeal function
- active Camille Cowley, M.S. Background noise effects on speech
- active Emily Bartholomew, M.S. Kinematic adaptation to EMA sensors
- active Allison Barney, M.S. Kinematic adaptation to a bite block
- 2019 Tanner Low, M.S. Vowel adaptation to bite blocks
- 2019 Kacy Chapman, M.S. Informational and energetic masking effects on speech
- 2019 Michelle Richins, M.S. Bite block effects on diphthong production
- 2018 Sammi Taylor, M.S. Acoustic correlates of aging
- 2018 Madison McHaley, M.S. Adaptation of /r/ to bite blocks
- 2018 Melissa Inkley, M.S. Speech acoustic changes while walking in people with PD
- 2018 Janae Calaway, M.S. Context effects in diphthong production

2017 Brittni Brewer, M.S. Influence of dialect on listeners' perception of speakers

2017 Katy Glenn, M.S. Conversation modality interactions with driving

2016 Kelsey Simmons, M.S. Talking while driving - effects on each activity

2016 Katherine Morris, M.S. Correspondence between acoustic and kinematic measures

2016 Elise Hunter, M.S. Kinematic transducer adaptation

2016 Betty Ann Marquardt, M.S. Language changes during multitasking in PD

2015 Panika Palmer, M.S. Acoustic and kinematic vowel working space

2015 Katherine Barber, M.S. The role of phonation in speech motor control

2014 Sarah Scott, M.S. Effect of auditory distractions on speech production

2013 Sharee Holmes, M.S. Emotion and acoustics of vibrato

2013 Dallin Bailey, M.S. Age effects on divided attention speech tasks

2013 Kelsey Boyce, M.S. Effect of linguistic complexity on speech movements

2012 Darrell Matthews, M.S. A kinematic investigation of phoneme prolongation

2012 Emily Redd, M.S. Impact on intelligibility of prosodic adjustment

2010 Gwi-Ok Jang, M.S. Acoustic and kinematic measures of tongue movement

2010 Stephanie Shaw, M.S. Phonation threshold in a physical larynx model

2010 Emily Heaton, M.S. Vowel equalization in singers

2009 Lauren Allen, M.S. Impact of exercise on speech in Parkinson disease

2009 Kristi Hollis, M.S. Impact of fatigue on dysarthria in multiple sclerosis

2009 Rachelle Nevitt, M.S. Simulating vocal pathology in a larynx model

2009 Leslie Leatham, M.S. Acoustic-palatometric associations

2008 Amy Leiter, M.S. Task priority in divided attention performance

2008 Suzy Bjarnason, M.S. Deep brain stimulation in Parkinson disease.

2007 Marybeth Corey, M.S. Palatometric activity in normal speakers.

2007 Karen Thomas, M.S. Vocal function exercises in healthy speakers.

- 2007 Kristi Fulton, M.S. Vocal efficiency in singers.
- 2006 Lorie Reese, M.S. Laryngeal level amplitude modulation in vocal vibrato.
- 2005 Lynn Watkins, M.S. Perceptual deficits in Parkinson disease.
- 2005 Jessica Wagner, M.S. Lip shapes and palatometric measures of articulation.
- 2005 Erin Hamblin, M.S. Speech, language, and left/right handed motor interactions.
- 2005 Petrea Nohr, B.S. hon. 3-D tongue movement measurement.
- 2004 Cindy Wheeler, M.S. Speech kinematics in L1 and L2 of bilingual speakers.
- 2004 Kim Batt, M.S. Entrainment of vocal tremor with muscle stimulation.
- 2004 Kathie Ritter, M.S. Impact of singers' warm-ups on phonation.
- 2003 Emily Bates, M.S. Mutual interference of speech and concurrent tasks.
- 2003 Aubrey Miller, M.S. Spasmodic dysphonia and articulation.
- 2003 Tracy Mathews, M.S. Speech context effects.
- 2002 April Benson, M.S. Effects of distractors on speech motor performance.
- 2002 Valerie Munns Gathright, M.S. Respiratory changes accompanying vocal training.
- 2001 Margret Tonks, M.S. Acoustic and perceptual changes during vocal training.
- 2001 Neisha Carter, M.S. Volitional changes to vocal vibrato in accomplished singers.
- 1999 Susan Tingley, M.S. Articulatory kinematics in adductor spasmodic dysphonia.

Thesis Committee Membership

- active Robin Smith, M.S. Simulated subglottic stenosis
- active Jessica Murphey, M.S. Excised larynx phonation
- active Kallie Chaves, M.S. Dark and light // in EPG
- 2018 Elizabeth Cope, M.S. EPG and // production
- 2018 Nujod Bakhsh, M.S. Speech audiometry materials
- 2018 Jessica Reese, M.S. Speech audiometry materials

2018 Chelsea Litster, M.S. Excised tissue storage and PTP

2018 Emily Webster, M.S. Excised tissue storage and PTF

2018 Rachel Zitting, M.S. L2 obstruents

2017 Kasey Duffield, M.S. EPG adaptation

2016 Maya Stevens, M.S. Vocal fold desiccation and hydration

2016 Mallory Hansen, M.S. Prophylactic saline vocal fold hydration

2016 Katie Walker, M.S. Statistical modeling of children's utterances

2016 Linda Titera Parrish, M.S. Masking noise and loudness matching

2016 Sarah Janis, M.S. Automated developmental sentence scoring

2016 Laurie Chamberlain, M.S. Developmental sentence scoring and MLU

ABD Lorinda Smith, PhD. Motor function in Parkinson's disease

2016 Brenda Peterson, M.S. Spanish pediatric WRS materials

2016 Jessica Graham, M.S. Spanish pediatric SRT materials

active Jenny Whiting, M.S. Real-time auralization of speech

2016 Lisa Mattei, M.S. Voice changes associated with subglottic stenosis

2016 Linda Titera, M.S. Masking and loudness perception

2015 Madelane Dixon, M.S. Social communication in children with LI

2015 Tawnya Coates, M.S. Cross-modality matching

2014 Janelle Bailey, M.S. Language pathways in TBI

2014 Whitney Robb, M.S. Vocal fold hydration in normal voices

2014 Robert Fujiki, M.S. Vocal fold hydration in singers

2013 Rebecca Mansfield, M.S. Use of emotion words in language impairment

2013 Lyndsy Smith, M.S. EEG and synthetic vowels

2013 Kristina Pickett, M.S. EPG and articulation disorders

2013 Hillary Benton, M.S. EEG in language disorders

2012 Janelle Barrett, M.S. Tongue contact and spectral moments

2012 Nicole Clover, M.S. Acoustics of contrastive stress

2012 Amy Cornett, M.S. Emotion words in language impaired children

2012 Katherine Bigelow, M.S. Reliability of MLU in language samples

2012 Benjamin Marshall, M.S. Palatometer traces and acoustics

2012 Erin Whitworth, M.S. Social networks in language impaired children

2012 Elizabeth Perry, M.S. EEG and filtered vowels

2012 Min Ney Wong, PhD. Articulatory kinematics in Parkinson's disease

2012 Tyson Harmon, M.S. Spanish grammatical tagging accuracy

2011 Lacey Powell, M.S. Prosody in children

2011 Shara Blunck, M.S. Gender recognition in children's speech

2010 Skylee Neff, M.S. EGG measures of categorical perception

2010 Anita Dromey, M.S. Differences between male/female speech in children

2010 Kristin Bjorkman, M.S. Language structure in MS

2009 Larkin Reeves, M.S. Acoustics of Utah vowels

2009 Britney Richey, M.S. Identification of noun clauses

2009 Heather Haskin, M.S. Social behavior and language impairment

2009 Kate King, M.S. Linguistic differences in individuals with MS

2009 Marjorie Smith, M.S. Phonological awareness in articulation cases

2009 Jacob Munger, M.S. Skin frequency response during speech

2009 Veronica Gardner, M.S. Social goals in language impaired children.

2009 Hali Michaelis, M.S. Automated analysis of relative clauses.

2008 Rachel Wenke, Ph.D. LSVT in non-progressive dysarthria
[International external dissertation reader for University of Queensland, Australia]

2007 Jennifer Johnson, M.S. Pre-movement potentials in speech.

2007 Kurtt Boucher, M.S. Anticipatory coarticulation in adults and children.

2006 Jaden Hellewell, M.S. EEG response to Spanish voice onset time.

2006 Ginny Smith, M.S. The influence of age on auditory gating.

2005 Michelle Nishida, M.S. EEG changes from gapping structures in adolescents.

2005 Lara-Jill Jennings, M.S. Speech audiometry materials in Mandarin Chinese.

2005 Jenny Lynes, M.S. Broadcast speech: prosodic aspects of preferred styles.

2005 Andrea Weaver, M.S. Impact of lingual transducer placement on fricative spectra.

2005 Tara Hansen, M.S. Electrophysiological correlates of gapping structures.

2004 Anna Farrell, Ph.D. Speech effects of neurosurgery in Parkinson's disease. [International external dissertation reader for University of Queensland, Australia]

2003 Mandi Kimball Walker, M.S. EEG patterns in sentence error recognition.

2001 Rachel Holman, M.S. P50 suppression in individuals who stutter.

2000 Rupal Patel, Ph.D. Prosodic control in severe dysarthria.

2000 Jennifer Anderson, M.S. Vocal aerodynamics following thyroplasty.

Courses of Instruction

Voice Disorders, University of Toronto, 1997, 1999, 2000

Voice Disorders, Brigham Young University, 2000 to 2011

Motor Speech Disorders, Brigham Young University, 2000 to present

Speech Science, Brigham Young University, 2001 to present

Graduate Seminar in Speech Physiology, Brigham Young University, 2001-2002.

Dysphagia management, Brigham Young University, 2004 to 2011

Medical Speech-Language Pathology, 2009 to present

Awards

- 2018 University Professorship - Brigham Young University
- 2015 Steven M. Rose Teaching and Learning Fellowship - Brigham Young University
- 2008 Nancy Peery Marriott Outstanding Scholar - McKay School of Education

Research Grants

- 2018 McKay School of Education, Brigham Young University
Articulatory adaptation to a static perturbation - \$4,950
- 2017 McKay School of Education, Brigham Young University
Perceptual and acoustic correlates of aging - \$4,800
- 2014- McKay School of Education, Brigham Young University
2015 The role of phonation in articulatory coordination - \$22,200
- 2013 McKay School of Education, Brigham Young University
Divided attention effects on speech motor performance - \$8,400
- 2009 McKay School of Education, Brigham Young University
Exercise training and motor learning in Parkinson's disease - \$7,180
- 2008 McKay School of Education, Brigham Young University
Deep brain stimulation and speech changes in Parkinson's - \$6,985
- 2007 McKay School of Education, Brigham Young University
Impact of deep brain stimulation on speech in Parkinson's - \$6,720
- 2006 McKay School of Education, Brigham Young University
Laryngeal level amplitude modulation - \$3,650
- 2006 Office of Graduate Studies, Brigham Young University
Mentoring award - Neurosurgery impact on speech - \$4,000
- 2005 McKay School of Education, Brigham Young University
Resource allocation and hemispheric localization - \$4,176
- 2004 Mentoring Environment Grant, Brigham Young University
Correlating lip shapes with tongue contact patterns - \$18,600
- 2004 McKay School of Education, Brigham Young University
L1/L2 articulatory kinematics in bilinguals - \$3,716

- 2003 McKay School of Education, Brigham Young University
Speech and concurrent task interactions - \$5,766
- 2002 McKay School of Education, Brigham Young University
Resource allocation in speech production - \$5,800
- 2001 McKay School of Education, Brigham Young University
Training the voice: vocal pedagogy and speech pathology - \$12,760
- 1999- Natural Sciences and Engineering Research Council (NSERC)
2000 Coordination and consistency in speech - \$26,250
- 1998 Faculty of Medicine, University of Toronto - \$10,000
Articulatory kinematic behaviour in two types of speech therapy for dysarthria
- 1997 Cummings Foundation - \$25,000
Autophonic scaling and loudness perception in speakers with Parkinson disease
- 1997 American Speech-Language Hearing Foundation - \$5,000 awarded, declined
Loudness perception in speakers with Parkinson disease

University Citizenship

- Spring 2019 Chair, Department Rank and Status Committee
- Winter 2019 Member, McKay School Scientific Review Committee
- Fall 2018 Chair, Department Teaching Review Committee
- Spring 2018 Chair, Department Strategic Planning Committee
- Winter 2018 Member, BYU Faculty Awards Committee
- Fall 2017 Chair, Department Faculty Search Committee
to Winter 2018
- Fall 2016 Member, Department Strategic Planning Committee
to Winter 2018
- Fall 2016 Member, Department Welfare Committee
- Fall 2017 Chair, McKay School Faculty Advisory Council
- Fall 2016 Member, McKay School Faculty Advisory Council
to Summer 2017

Winter 2016 Chair, Department Faculty Search Committee
to Fall 2016

Fall 2015 Member, McKay School of Education Rank and Status Committee
to Winter 2019

July 2012 Member, Department Chair Coordinating Committee
to June 2015

Fall 2009 Chair, Department of Communication Disorders
to June 2015

Fall 2007 Chair, BYU Institutional Review Board for Human Subjects
to Fall 2009

Fall 2005 Member, BYU Graduate Council
to Fall 2007

Fall 2005 Member, BYU Academic Review Committee
to Fall 2007

Fall 2002 Member, BYU Institutional Review Board for Human Subjects
to Fall 2005

Peer Review Service

Review of manuscripts submitted to:

Journal of Speech, Language, and Hearing Research
Folia Phoniatica et Logopaedica
Brain
Journal of Medical Speech-Language Pathology
Journal of Speech-Language Pathology and Audiology
Journal of Communication Disorders
Movement Disorders
Phonoscope
Journal of the Acoustical Society of America
Annals of Otology, Rhinology and Laryngology
American Journal of Speech-Language Pathology
International Journal of Language and Communication Disorders
Communicative Disorders Review
Journal of Fluency Disorders
Speech Communication
Logopedics Phoniatrics Vocology
IEEE Transactions on Magnetics - Conferences
Clinical Linguistics and Phonetics
Journal of Voice
Journal of Neurolinguistics

Asia Pacific Journal of Speech, Language & Hearing
International Journal of Speech-Language Pathology
Journal of Rehabilitation Research and Development
Brain Stimulation
Brain Research
Journal of the Acoustical Society of America - Express Letters
Neurorehabilitation and Neural Repair
Canadian Journal of Neurological Sciences
IEEE Access

Review of book manuscripts submitted to:

Butterworth-Heinemann
Merrill Prentice Hall

Guest Editor, Journal of Speech, Language, and Hearing Research (2017, 2018)

Guest Associate Editor, Special Issue, American Journal of Speech-Language Pathology (2016)

Review of grant proposal for the National Science Foundation (2010, 2011)

Review of submissions in motor speech for the ASHA Convention (2010, 2013, 2014)

Review of grant proposal for the Health Research Board of Ireland (2009)

Topic coordinator for motor speech disorders for the ASHA Convention (2009)

Publications manager for the Conference on Motor Speech, Monterey, CA (2008), Savannah, GA (2010), Santa Rosa, CA (2012), Sarasota, FL (2014), Newport Beach, CA (2016), Savannah, GA (2018).

Review of grant proposal for the Neurological Foundation of New Zealand (2008)

Review of CFI grant proposals for the University of British Columbia (2008)

Review of grant proposals for the University of Utah College of Health (2006)

Program Chair for Motor Speech Disorders at the Conference on Motor Speech in Austin, TX (2006)

Review of evidence-based practice treatment guidelines for the Academy of Neurologic Communication Disorders and Sciences (2005)

Review of submissions in Speech Science to the 2005 annual convention of the American Speech-Language-Hearing Association in San Diego.

Review of grant proposals for the ASHA Foundation New Century Scholars Award (2005)

Grant review for the National Health and Medical Research Council of Australia (2003).

Review of grant proposals for the ASHA Foundation New Investigators Award (2002).

Review of submissions in Speech Science to the 2002 annual convention of the American Speech-Language-Hearing Association in Atlanta, GA.

Review of submissions to the Conference on Motor Speech (2000) in San Antonio, TX, and (2002) in Williamsburg, VA.

Review of submissions to the Microcomputer Applications Subcommittee for the 1996 ASHA Convention in Seattle, WA.

Professional Affiliation

Member of the American Speech-Language-Hearing Association with Certificate of Clinical Competence since June, 1991.

Additional Interpersonal and Leadership Experience

Dec. 1981 to Voluntary missionary in Germany for the Church of Jesus Christ of June 1983 Latter-day Saints.

Updated: June 25, 2019