

CURRICULUM VITAE

Toby Macrae, Ph.D., CCC-SLP

Assistant Professor
School of Communication Science and Disorders
Florida State University
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Education

Doctor of Philosophy in Speech Pathology	University of Nevada School of Medicine Department of Speech Pathology and Audiology Advisors: Ann A. Tyler, Ph.D. and Kerry E. Lewis, Ph.D. Dissertation Title: <i>The relation between error variability and stimulability in children with SSD</i>	2009
Master of Speech and Language Therapy	University of Canterbury, Christchurch, New Zealand Department of Communication Disorders Advisor: Michael P. Robb, Ph.D. Thesis Title: <i>Acoustic analysis of word and segment duration and variability in speech-impaired and normally-developing children</i>	2005
Bachelor of Speech and Language Therapy	University of Canterbury, Christchurch, New Zealand Department of Communication Disorders	2001

Professional Experience

Fall 2010 – Present	Assistant Professor Florida State University School of Communication Science and Disorders	
Summer 2007, 2008, 2009	Clinical Supervisor Department of Speech Pathology and Audiology, University of Nevada School of Medicine Supervision of graduate student clinicians in the evaluation of communication disorders in preschool- and school-aged children Supervision of graduate student clinicians in the assessment and treatment of communication disorders in preschool- and school-aged children and in adults	
Summer 2007	Research Assistant Department of English, University of Nevada, Reno Acoustic analysis of speech in adult speakers of American English	
Summer 2006	Research Assistant Department of Speech Pathology and Audiology, University of Nevada School of Medicine Acoustic analysis of speech in children with speech sound disorders	

- Mar. – July 2005 **Clinical Supervisor**
 Department of Communication Disorders, University of Canterbury
 Supervision of student clinicians providing speech-language services
 for preschool- and school-aged children with communication
 disorders
- Apr. – Jun. 2005 **Speech-Language Pathologist**
 Department of Communication Disorders, University of Canterbury
 Administered evaluations for clients referred to the University of
 Canterbury Campus Speech and Hearing Clinic
- 2004 – 2005 **Speech-Language Pathologist**
 Provision of services for private school-aged clients with
 communication disorders
- 2004 – 2005 **Research Assistant**
 Department of Communication Disorders, University of Canterbury
 Acoustic analysis of speech in children with cleft palate
- Jan. 2002 – Jan. 2004 **Speech-Language Pathologist**
 Ministry of Education, Lower Hutt, New Zealand
 Provision of services for preschool- and school-aged children with
 communication disorders
- 2000 – 2001 **Research Assistant**
 Department of Communication Disorders, University of Canterbury
 Acoustic analysis of speech in adult speakers of New Zealand
 English and New Zealand Maori
 Data collection from adult speakers of New Zealand English

Professional Certification

Certificate of Clinical Competence (CCC-SLP), American Speech-Language-Hearing Association
 License to practice Speech-Language Pathology in the State of Florida

Professional Affiliations

American Speech-Language-Hearing Association

Research Interests

Speech Sound Development and Disorders in Children:

- Early identification of and intervention for speech sound disorders (SSD) and their subtypes
- Word and speech sound variability in typical and disordered speech development
- Speech motor performance in typical and disordered speech development

Experimental Phonetics:

- Acoustic characteristics of speech in children and adults with SSD
- The evolution of phonological systems in different languages of the world

Publications

- Macrae, T., & Tyler, A. A. (2014). Speech abilities in preschool children with speech sound disorder with and without co-occurring language impairment. *Language, Speech, and Hearing Services in Schools*. Advance online publication. doi: 10.1044/2014_LSHSS-13-0081
- Macrae, T., Tyler, A. A., & Lewis, K. E. (2014). Lexical and phonological variability in preschool children with speech sound disorder. *American Journal of Speech-Language Pathology, 23*, 27-35.
- Macrae, T. (2013). Lexical and child-related factors in word variability and accuracy in infants. *Clinical Linguistics & Phonetics, 27*(6-7), 497-507.
- Tyler, A. A., Gillon, G., Macrae, T., & Johnson, R. L. (2011). Direct and indirect effects of stimulating phoneme awareness vs. other linguistic skills in preschoolers with co-occurring speech and language impairments. *Topics in Language Disorders, 31*(2), 128-144.
- Macrae, T., Robb, M., P., & Gillon, G. T. (2010). Acoustic analysis of word and segment duration in children with speech sound disorder. *Asia Pacific Journal of Speech, Language, and Hearing, 13*(2), 77-86.
- Tyler, A. A., & Macrae, T. (2010). Stimulability: relationships to other characteristics of children's phonological systems. *Clinical Linguistics & Phonetics, 24*(4-5), 300-310.
- Fridland, V., & Macrae, T. (2008). Patterns of /uw/, /ʊ/, and /ow/ fronting in Reno, Nevada. *American Speech, 83*(4), 432-454.

Presentations

- Sosa, A., Macrae, T., & Bedsole, K. (2014, June). *Predictors of intra-word variability in typically developing pre-schoolers*. Paper presented at the International Child Phonology Conference, Missoula, MT.
- Bedsole, K., Macrae, T., McClellan, E., & Tillman, G. (2013, November). *Including vowels in measures of word variability in typically developing young children*. Poster presented at the Annual Convention of the American Speech-Language-Hearing Association, Chicago, IL.
- Macrae, T., Bedsole, K., Mirabelli, S., Louchheim, A., & Scofield, H. (2013, November). *The relationship between early word variability and later speech and language abilities*. Poster presented at the Annual Convention of the American Speech-Language-Hearing Association, Chicago, IL.
- Mirabelli, S., Lundblom, E., Macrae, T., Scott, L., & Stierwalt, J. A. G. (2013, November). *Applying the motor learning-guided approach for childhood apraxia of speech during group language therapy*. Poster presented at the Annual Convention of the American Speech-Language-Hearing Association, Chicago, IL.
- Macrae, T., Stierwalt, J. A. G., Phillips, S., Rielly, S., Haas, S., & Behel, K. (2012, November). *Speech disturbance following VPI repair: Acoustic and perceptual analyses*. Poster presented at the Annual Convention of the American Speech-Language-Hearing Association, Atlanta, GA.
- Stierwalt, J. A. G., Macrae, T., Haas, S., Phillips, S., Rielly, S., & Behel, K. (2012, November). *Speech impairment following corrective surgery for VPI: Pre-/posttreatment*. Poster presented at the Annual Convention of the American Speech-Language-Hearing Association, Atlanta, GA.
- Macrae, T. (2012, June). *Phonetic/phonological and lexical effects on word accuracy and variability*. Poster presented at the 14th Meeting of the International Clinical Phonetics and Linguistics Association, Cork, Ireland.

- Macrae, T., Stierwalt, J. A. G., Phillips, S., Rielly, S., & Haas, S. (2012, June). *Unusual speech distortion following palatal surgery: acoustic features pre-post treatment*. Poster presented at the 14th Meeting of the International Clinical Phonetics and Linguistics Association, Cork, Ireland.
- Macrae, T., & Tyler, A. A. (2011, November). *Speech abilities in children with concomitant speech and language impairment*. Paper presented at the Annual Convention of the American Speech-Language-Hearing Association, San Diego, CA.
- Macrae, T. (2011, March). *Developmental phonological disorders and treatment approaches*. Invited presentation at The 2011 North Florida Conference on Communication Disorders, Tallahassee, FL.
- Macrae, T., & Tyler, A. A. (2010, November). *Exploring error variability, severity and error patterns*. Poster presented at the Annual Convention of the American Speech-Language-Hearing Association, Philadelphia, PA.
- Macrae, T., Tyler, A. A., & Lewis, K. E. (2009, November). *Relation between error variability and stimulability in children with SSD*. Poster presented at the Annual Convention of the American Speech-Language-Hearing Association, New Orleans, LA.
- Macrae, T., Tyler, A. A., & Morrissey, A. (2007, November). *Speech motor performance in subgroups of children with SSD*. Poster presented at the Annual Convention of the American Speech-Language-Hearing Association, Boston, MA.
- Fridland, V., & Macrae, T. (2007, October). *Patterns of uw, U, and ow fronting in Reno, Nevada*. Poster presented at the New Ways of Analyzing Variation (NWAV 36) Conference, Philadelphia, PA.
- Macrae, T., Robb, M. P., & Gillon, G. T. (2005, November). *Speech segment durations in normal and speech impaired children*. Poster presented at the Annual Convention of the American Speech-Language-Hearing Association, San Diego, CA.
- Macrae, T., Robb, M. P., & Gillon, G. T. (2005, April). *Speech segment durations in normal and speech impaired children*. Poster presented at the Canterbury Conference on Communication Disorders, Christchurch, New Zealand
- Robb, M. P., & Macrae, T. (2004, November). *A phonetic record of prelinguistic development*. Poster presented at the Annual Convention of the American Speech-Language-Hearing Association, Philadelphia, PA.

Teaching Experience

Florida State University

1. SPA 5204 Articulation and Phonological Disorders (graduate), Instructor
Integration of current phonological theory with best practices in the assessment and treatment of speech sound disorders in children
2. SPA 5204DL Articulation and Phonological Disorders – Distance Learning (graduate), Instructor
Integration of current phonological theory with best practices in the assessment and treatment of speech sound disorders in children

3. SPA 6804 Doctoral Seminar: Preparing for a Career in Academia, Instructor

Readings, class discussions and practical assignments related to research, teaching and service for doctoral students in communication science and disorders preparing for a college research and/or teaching position

4. SPA 4112 Clinical Phonetics (undergraduate), Instructor

Phonetic transcription of vowels and consonants in isolation, syllables, words, phrases, and connected speech in normal and disordered speakers

5. SPA 4056 Clinical Methods (undergraduate), Instructor

Fundamentals of clinical practice in speech-language pathology, including principles of assessment and treatment of individuals with developmental and acquired communication impairments, data collection, and reporting

University of Nevada School of Medicine

1. SPA 301 Survey of Speech Pathology and Audiology, Spring 2008, Co-instructor

Introduction to speech-language processes and disorders and discussion of cultural and linguistic influences

2. SPA 660/661 Advanced Speech Pathology: Phonological and Articulation Disorders, Fall 2007, Co-instructor

Integration of current phonological theory with best practices in evaluation and treatment of children with speech sound disorders

3. SPA 340 Speech and Language Development, Fall 2007, Guest Lecturer, and Fall 2006, Guest Lecturer

Typical speech-language development in children from infancy through the elementary school years

4. SPA 757 Experimental Phonetics, Spring 2007, Instructor, and Spring 2006, Guest Lecturer

Acoustic characteristics of speech production and perception and instrumentation for speech analysis

5. SPA 362 Introduction to Audiology, Fall 2005, Guest Lecturer

Physics of sounds, anatomy and physiology of the ear, medical and surgical aspects of hearing loss, basic audiometric techniques, and hearing conservation

Clinical Supervision

Summer 2007 – Summer 2009 Department of Speech Pathology and Audiology, University of Nevada School of Medicine
Supervision of graduate student clinicians in the evaluation of communication disorders in preschool- and school-aged children
Supervision of graduate student clinicians in the assessment and treatment of communication disorders in preschool- and school-aged children and in adults

Fall 2005 – Summer 2007	Department of Speech Pathology and Audiology, University of Nevada School of Medicine Co-supervision of graduate student clinicians in the evaluation of communication disorders in preschool- and school-aged children Co-supervision of graduate student clinicians in the assessment and treatment of communication disorders in preschool- and school-aged children and in adults
Feb. 2004 – July 2005	Department of Communication Disorders, University of Canterbury Supervision of student clinicians in the assessment and treatment of communication disorders in preschool- and school-aged children

Grants and Awards

Spring 2014	Provost's Faculty Travel Grant, \$1,000 Office of the Provost, Florida State University
Summer 2013	Speech, Language and Literacy in High-Need Populations (Co-PI), \$1,248,418 U.S. Department of Education, Office of Special Education Programs
Summer 2012	Committee on Faculty Research Support (COFRS) Regular Summer Award, \$14,000 Council on Research and Creativity, Florida State University
Fall 2011	Provost's Faculty Travel Grant, \$532 Office of the Provost, Florida State University
Summer 2011	First Year Assistant Professor (FYAP) Grant, \$17,000 Council on Research and Creativity, Florida State University
Fall 2005 – Summer 2009	Graduate Assistantship, \$14,000 per year Department of Speech Pathology and Audiology, University of Nevada School of Medicine Responsibilities include research, teaching, and clinical supervision
2008 – 2009	Glen E. Whiddett Biomedical Graduate Student Scholarship, \$500 University of Nevada School of Medicine
2007	Student Research Travel Award: Annual Convention of the American Speech-Language-Hearing Association, Boston, MA, \$500 (awarded but not utilized)
1997	Rose Hellaby Bursary Scholarship, \$1,000 University of Canterbury
1996 – 2001, 2004 – 2005	Manaaki Taura Grant, up to \$1,000 per year University of Canterbury