

AARON MATTHEW JOHNSON

Department of Speech and Hearing Science
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EDUCATION

University of Wisconsin, Madison, WI

Doctor of Philosophy, Speech-Language Pathology, 2012

Dissertation: "Effects of Age and Exercise on Neuromuscular Junction Plasticity in Muscles of Swallowing and Voice"

Adviser: Dr. Nadine Connor

Rush University, Chicago, IL

Master of Science, Speech-Language Pathology, 2007

Thesis: "Classification of the Classical Male Singing Voice Using Long-Term Average Spectrum"

Adviser: Dr. Gail Kempster

Northwestern University, Evanston, IL

Master of Music, Vocal Performance and Literature, 1999

Bachelor of Music, Vocal Performance, Certificate (minor) in Music Theatre, 1995

CERTIFICATION

State of Illinois Department of Professional Regulation, Licensed Speech-Language Pathologist, 2013-present

Certificate of Clinical Competence (CCC-SLP) from the American Speech-Language-Hearing Association, 2012-present

Certificate in Vocology, National Center for Voice and Speech, Denver, CO, 2005

POSITIONS HELD

Affiliate Faculty

February 2013 to present

Bioimaging Science and Technology Research Group, Beckman Institute, University of Illinois at Urbana-Champaign

Faculty Research Affiliate

January 2013 to present

Neuroscience Program, University of Illinois at Urbana-Champaign

Assistant Professor

August 2012 to present

Department of Speech and Hearing Science, University of Illinois at Urbana-Champaign

Fellow

July 2009 to August 2012

University of Wisconsin Voice Research Training Program

Laboratory of Dr. Nadine Connor, University of Wisconsin, Madison

Research funded by a T32 grant from the NIH-NIDCD; Dr. Diane Bless, PI

Instructor January 2012 to May 2012
University of Wisconsin, Madison, Department of Communicative Disorders

Teaching Assistant January 2009 to May 2009
University of Wisconsin, Madison, Department of Communicative Disorders

SLP Clinical Fellow January 2009 to August 2009 & September 2012 to July 2012
Voice and Swallowing Clinic at the University of Wisconsin Hospital & Clinics, Madison

Research Assistant June 2007 to June 2009
Laboratory of Dr. Nadine Connor, University of Wisconsin, Madison
Research funded by an R01 grant from the NIH-NIDCD; Dr. Nadine Connor, PI

Adjunct Professor September 2000 to May 2005
Elmhurst College, Departments of Music and Theatre, Elmhurst, IL

Private Singing Instructor September 1998 to August 2012

JOURNAL ARTICLES

Johnson AM, Ciucci MR, Connor NP. Vocal training mitigates age-related changes within the vocal mechanism in old rats. *J. Gerontol. A Biol. Sci. Med. Sci.* In press.

Johnson AM, Doll EJ, Grant LM, Ringel L, Shier JN, Ciucci MR. Targeted training of ultrasonic vocalizations in aged and parkinsonian rats. *J Vis Exp.* 2011;54. doi:10.3791/2835.

Johnson AM, Connor NP. Effects of age and chronic electrical stimulation on three-dimensional neuromuscular junction morphology in the rat tongue. *Muscle Nerve.* 2011;43(2):203-211. PMC3058304.

Johnson AM, Kempster GB. Classification of the classical male singing voice using long-term average spectrum. *J Voice.* 2011;25(5):538-543.

Johnson AM, Ciucci MR, Russell JA, Hammer MJ, Connor NP. Ultrasonic acoustic output from the excised rat larynx. *J Acoust Soc Am.* 2010;128:EL75-EL79. PMC2924901.

INTERNATIONAL AND NATIONAL PRESENTATIONS AND ABSTRACTS

Johnson AM, Ciucci MR, Connor NP. Vocal Training Mitigates the Effects of Age on Rat Vocalizations and Laryngeal Neuromuscular Junctions. Oral presentation at The Voice Foundation's 42nd Annual Symposium: Care of the Professional Voice, May, 2013, Philadelphia, PA.

Johnson AM, Connor NP. Differences in age-related synaptic remodeling between lateral and medial thyroarytenoid neuromuscular junctions. Oral presentation at The Fall Voice Conference, October, 2012, New York, NY.

Johnson AM. Understanding laryngeal image analysis using ImageJ, a free, open-source tool. Workshop presented at the 12th Biennial Phonosurgery Symposium, July, 2012, Madison, WI.

Johnson AM, Ciucci MR, Connor NP. Rat Ultrasonic Vocalizations: A Behavioral Model for Studying Laryngeal Neurobiology. Oral presentation at The Voice Foundation's 41st Annual Symposium: Care of the Professional Voice, May, 2012, Philadelphia, PA.

- Johnson AM**, Ciucci MR, Connor NP. How vocal exercise changes rat vocalizations and laryngeal neuromuscular junctions. Poster presented at the annual meeting of the American Speech Language Hearing Association, November, 2011, San Diego, CA.
- Johnson AM**, Ciucci MR, Russell J, Hammer MJ, Connor NP. The rat larynx as a behavioral and molecular model for vocal control. Oral presentation at the International Conference on Advances in Laryngeal Biophysiology and the International Conference on Voice Physiology and Biomechanics, July, 2010, Madison, WI.
- Johnson AM**, Connor NP. Effect of chronic hypoglossal nerve stimulation on three-dimensional neuromuscular junction morphology in the aging rat tongue. Presentation at the annual Dysphagia Research Society meeting, March, 2010, San Diego, CA.
- Johnson AM**, Ishikawa K. The use of LTAS as a measurement of the singing voice. Poster presented at the 4th International Conference on the Physiology and Acoustics of Singing, January, 2009, San Antonio, TX.
- Johnson AM**, Ciucci MR, Russell J, Hammer MJ, & Connor NP. Source of ultrasonic vocalizations in rats. Poster presented at the annual meeting of the American Speech Language Hearing Association, November, 2008, Chicago, IL.
- Ciucci MR, Wang H, Russell J, Schaser A, **Johnson AM**, Vinney L, & Connor NP. Dopaminergic influence on rat tongue sensorimotor function and impairment. Presentation at the annual meeting of the American Speech-Language-Hearing Association, November, 2008, Chicago, IL.
- Johnson AM**. Classification of the male singing voice using long-term average spectrum. Oral presentation at The Voice Foundation's 37th Annual Symposium: Care of the Professional Voice, June, 2008, Philadelphia, PA.
- Johnson AM** & Rainero R. Vocal technique vs. singing style: finding a common ground across aesthetics. Workshop presented at the UCSF Voice Conference, October, 2006, San Francisco, CA.

LOCAL AND REGIONAL PRESENTATIONS AND LECTURES

- Johnson AM**. Rat ultrasonic vocalizations: A behavioral model for studying laryngeal neurobiology. Invited speaker, Behavioral Neuroscience brown bag, Department of Psychology, University of Illinois at Urbana-Champaign, January, 2013, Champaign, IL.
- Johnson AM**. Understanding, preventing and treating voice disorders in elderly adults. Invited speaker, Southern Illinois University School of Medicine, December, 2012, Springfield, IL.
- Johnson AM**. Effect of vocal exercise on the ultrasonic vocalizations of rats. Oral presentation at the Research in Progress seminar of the Department of Surgery, University of Wisconsin, Madison, September, 2010, Madison, WI.
- Johnson AM**. Underlying mechanisms of neuromuscular electrical stimulation therapy: changes at the neuromuscular junction. Oral presentation at the professional seminar of the Department of Communicative Disorders, University of Wisconsin, Madison, February, 2010, Madison, WI.
- Johnson AM**. How to choose a voice teacher *and* Giving your best audition. Workshops given at the University of Wisconsin Voice and Swallow Clinic's "Explore the Voice" public seminar, May, 2009, Madison, WI.

Johnson AM. Source of ultrasonic vocalizations in rats. Oral presentation at the professional seminar of the Department of Communicative Disorders, University of Wisconsin, Madison, March, 2009, Madison, WI.

Johnson AM. Technology and the voice studio. Invited seminar presented at the annual joint meeting of Chicago Chapter NATS and the Chicago Singing Teachers Guild, March, 2007, Evanston, IL.

Johnson AM. Science and the singing voice. Invited lecture for vocal pedagogy class, Northern Illinois University, October, 2006, DeKalb, IL.

Johnson AM. The role of the speech-language pathologist in a case of a patient with severe cognitive/communicative deficits, Rush University speech-language pathology rounds, May 2006, Chicago, IL.

Johnson AM. Voice disorders in the acute rehabilitation setting. Speech-language pathology in-service, the Rehabilitation Institute of Chicago, March, 2006, Chicago, IL.

Johnson AM. What is Vocology? Invited lecture at the annual joint meeting of Chicago Chapter NATS and the Chicago Singing Teachers Guild, February, 2006, Elmhurst, IL.

Johnson AM. Basic anatomy and physiology of the singing voice. Invited lecture at the Wunderstudios Summer Singing Workshop, 2002, 2003, & 2004, Elmhurst, IL.

Johnson AM. Vocal health for singers. Invited lecture at the Wunderstudios Summer Singing Workshop, 2002, 2003, & 2004, Elmhurst, IL.

CHAPTERS, PUBLISHED ABSTRACTS AND NEWSLETTERS

Johnson AM. Guilt-free breathing. *The Voice: Member Newsletter of the Voice Foundation*, 2010;15(1):3-4.

HONORS & AWARDS

Sataloff Award for Young Investigators, co-sponsored by Elsevier and the Voice Foundation, presented at the Voice Foundation's 42nd Annual Symposium, 2013

Graduate Student Peer Mentor Award, University of Wisconsin, Graduate School, 2012

Frederic A. Gruber Memorial Scholarship, University of Wisconsin, Department of Communicative Disorders, 2011

1st Place Scientific Abstract: Oral Presentation at the 18th Annual Dysphagia Research Society Meeting, March, 2010

2010 New Investigator Grant, awarded by ASHA Special Interest Division 13 at the 18th Annual Dysphagia Research Society Meeting, March, 2010

New Century Scholars Doctoral Scholarship, American Speech-Language Hearing Foundation, 2008

Highest peer-review score of a student poster in speech science, American Speech-Language Hearing Association, 2008

Students Pursuing Academic and Research Careers (SPARC) Award, American Speech-Language Hearing Association, 2007

Association of Schools of Allied Health Professions Scholarship for Excellence, 2007

Theta Alpha Phi Theatre Honors Society, inducted in 2005

Northwestern University Eckstein Fellowship, 1998 & 1999

Chicago Symphony Chorus Margaret Hillis Fellowship, 1996, 1997, & 1999
Pi Kappa Lambda Music Honors Society, inducted in 1995
National Merit Scholar, 1991 – 1995

GRANT SUPPORT

Vocal fold vibration and laryngeal morphology across the lifespan

UIUC Campus Research Board
Role on project: Principal Investigator
Dates of award: May 1, 2013 to September 31, 2014
Total funds awarded: \$11,320

Clinical Research Loan Repayment Program

National Institutes of Health (NIDCD)
Role on project: Principal Investigator
Dates of award: pending
Total funds requested: \$35,000

SERVICE

Fall Voice Conference 2013 Speech Pathology Program Committee	November 2012 to October 2013
ASHA Special Interest Division 13 Research Committee	March 2010 to April 2011
Voice, Resonance, & Alaryngeal Speech Program Committee for 2010 ASHA Convention	October 2009 to November 2010
President; Chicago Singing Teachers Guild	September 2006 to August 2007
President; Chicago Chapter NATS	September 2004 to August 2006
Secretary; Chicago Singing Teachers Guild	September 2002 to August 2004
Corresponding Secretary; Chicago Chapter NATS	September 2002 to August 2004

ACADEMIC COURSES TAUGHT

University of Illinois at Urbana-Champaign, Department of Speech and Hearing Science
SHS 411 Introduction to Voice Disorders, Fall 2012
SHS 513 Normal & Disordered Swallowing, Spring 2013
University of Wisconsin, Madison, Department of Communicative Disorders
CD 706 Management and Assessment of Voice Disorders, Spring 2012
Elmhurst College, Elmhurst, IL, Department of Music
MUS 135 Theory I & MUS 136 Theory II, Fall/Spring 2004 - 2005
MUS 212 Music in Western Culture, Spring 2003
AGE 303 Elements of Music in Western Culture, Spring 2002, Summer 2003

PROFESSIONAL AFFILIATIONS

Acoustical Society of America
American Speech-Language-Hearing Association (ASHA)
ASHA Special Interest Group 3, Voice and Voice Disorders
ASHA Special Interest Group 13, Swallowing and Swallowing Disorders (Dysphagia)

Illinois Speech-Language-Hearing Association
National Association of Teachers of Singing
Society for Neuroscience
The Voice Foundation

AD HOC MANUSCRIPT REVIEWS

Ageing Research Reviews (1)
The Annals of Otolaryngology, Rhinology, and Laryngology (1)
Folia Phoniatrica et Logopaedica (2)
Journal of Voice (4)
Medical Engineering & Physics (1)
Otolaryngology - Head and Neck Surgery (1)

PROFESSIONAL SINGING EXPERIENCE

Solo

Pilatus in J. S. Bach's St. Matthew Passion, St. John Cantius, April, 2006
Astolfo and Gubetta in Donizetti's *Lucrezia Borgia*, Da Corneto Opera, July, 2003
Papageno in *The Mozart Experience*, Chicago Symphony Orchestra, February, 2003
Bass soloist in Handel's *Messiah*, Janus Ensemble, December, 2001
Soloist at the Ravinia Festival, Chicago Symphony Orchestra, July, 1996

Ensemble

Chicago Symphony Chorus, June, 1994 to May, 2007
 Bass I Section Leader, 2004-2006 seasons
 Bass II Section Leader, 1998-2000 seasons
Chicago *a cappella*, September, 1997 to May, 2007
Grant Park Symphony Chorus, summers of 1994, 1995, 1998, 2003, & 2006
Anshe Emet Synagogue, September, 1996 to May, 2007
L'Opera Piccola, June 2002
Schola Cantorum of St. Peter's in the Loop, September, 1997 to May, 2001

Discography

Symphony No. 13, "Babi Yar", Shostakovich, Chicago Symphony Orchestra, conducted by Sir Georg Solti, London/Decca, 1995.
Die Meistersinger von Nürnberg, Wagner, Chicago Symphony Orchestra, conducted by Sir Georg Solti, London/Decca, 1997.
Go Down Moses: Tracing the Roots of the African-American Spiritual, Chicago *a cappella*, 2000.
Holidays a cappella Live, Chicago *a cappella*, conducted by Jonathan Miller, 2002.
Eclectic, Chicago *a cappella*, Centaur Records, 2005.
Shall I Compare Thee?, Chicago *a cappella*, Cedille Records, 2005.