

## **Martha Summa-Chadwick, DMA**

### **Contact Information**

**Available on request – please send message via contact page.**

### **Overview**

Martha Summa-Chadwick has achieved a national reputation as an educator, presenter, performer, and advocate for the cause of music in therapy. She has performed as piano and harpsichord soloist with orchestras across the country and served for twenty-six years on the faculty of the Cadek Conservatory of the University of Tennessee at Chattanooga, Tennessee. For the past decade, Dr. Summa-Chadwick has explored various ways to use music for therapeutic as well as aesthetic ends. She is the Executive Director of the nonprofit organization Music Therapy Gateway in Communications, Inc., and a frequent guest speaker at both national and regional conferences, discussing the use of biomedical music techniques for challenged children. She has given two TED talks and established a series of both chamber and solo concerts to help educate diverse audiences in an overview of biomedical music protocols and how music can be used in collaboration with improved neural learning patterns. She is also exploring how biomedical music protocols could be automated into software applications for persons with motor, speech, or cognition challenges.

### **Teaching Experience**

**Cadek Conservatory of Music, Chattanooga, TN** **1993-2019**

*Individual studio piano instructor* working with both neuro-typical and neuro-diverse students.

**University of Tennessee at Chattanooga, Chattanooga, TN** **2001-2002**

*Head of the Piano Division, Music Department*, one-year position. Associate Professor and Keyboard Coordinator responsible for teaching applied piano lessons, class piano lessons, ensemble, and literature.

**Trinity College, Hartford, CT** **1984-1985**

*Individual studio piano instructor*

### **Unique Teaching Methods:**

Overall teaching style includes the study of various forms of technique, theory, musical structure, music history, ear training, and literature. Additional teaching experience includes both traditional pedagogy techniques and the use of computer technology and internet-based application training to assist in teaching children with autism. Protocols have been created for both typically

and atypically developing student populations, including a tiered color-coded music reading system created for an inclusive course at the Chattanooga Public Library where neuro-diverse students can enjoy group piano lessons alongside their neuro-typical peers.

### **Interdisciplinary / Other Professional Experience**

#### **Music Therapy Gateway In Communication (MTGIC), Inc. 2003-present**

*Executive Director* and founder of 501(c)3 nonprofit organization MTGIC.

Assumed total responsibility for start-up paperwork efforts, including collaboration with the state of Tennessee and IRS to create the corporation and gain its 501(c)3 status, recruiting the board of directors, and obtaining initial funding with grant efforts. Since start-up, maintained responsibility for all work needed for logistic, creative, and collaborative endeavors.

MTGIC promotes the use of biomedical music techniques to support children with motor, cognition, and speech challenges. The support has been offered via 1) one-on-one therapy sessions as grant funding permits; 2) training and workshops for therapeutic professionals, parents, educators, and caregivers of those with special needs; 3) creation of a concert series to help educate current concert patrons and bring in new audience members to see the potential value of music in the therapeutic world; 4) creation of a high level specification for special software to automate certain of the biomedical cognition techniques and the necessary research to develop and test the application; and 5) coordination with area resources providing support to persons with special needs. Extensive collaboration with many organizations in the Chattanooga area, including the University of Tennessee at Chattanooga Departments of Music, Education, Computer Science, Physical Therapy, and Psychology. Additional wide-ranging collaboration has been established with Signal Centers, Siskin Children's Institute, Siskin Hospital for Physical Rehabilitation, and Orange Grove Center. For additional information please refer to the MTGIC website, [www.mtgic.org](http://www.mtgic.org).

#### **Tennessee Valley Authority, Chattanooga, TN**

**1992-2001**

*Database Administrator* supporting Oracle 7.x and 8.x databases. Responsible for database design, backup and recovery, data migration, implementing new vendor products and interfacing with vendor representatives.

*Programmer Analyst* supporting all IT functions related to telecommunications systems in TVA. Systems designed, built, and implemented included reporting, automatic payment, long distance billing, cell phone billing, local billing, leased pagers, internal pagers, and departmental chargeback. Also responsible for

development of bar-coding systems for corporate wide materials management system.

**Westinghouse Communications Software, Stamford, CT 1990-1992**

*Project Manager* for Communications Management System II (CMSII), a telephone/data management system comprised of approximately 160 on-line screens, 1200 programs, 200 files, and an I/O subsystem. Responsible for analysis, design, and software implementation as well as being primary technical contact point for all customers. Served as the technical liaison with Systems staff in all areas of CICS and DASD management. Responsible for intensive testing of upgrades for CISC region and mainframe disk devices.

**Aetna Life & Casualty, Windsor, CT 1984-1989**

*Project Leader/Senior Systems Analyst* of the Bond Processing System. Developed specifications and participated in programing, testing, and implementation of new system feature and modification to the on-line and batch processing facilities. Served as the technical focal point to the area, participated in and coordinated resource planning and system software upgrades. Provided training to team members, introduced new tools and methods to the department.

**Education**

*Empirical Methods in Music Research*, Ohio State University Music Cognition curriculum course led by David Huron, Columbus, OH (2018)  
Doctor of Musical Arts (DMA), University of Kansas, Lawrence, KS (2008)  
Fellowship training, Robert J. Unkefer Academy of Neurologic Music Therapy, Center for Biomedical Research in Music, Colorado State University, Fort Collins, CO (2005)  
Basic training, Robert J. Unkefer Academy of Neurologic Music Therapy, Center for Biomedical Research in Music, Colorado State University, Fort Collins, CO (2002)  
Master of Music (MM), University of Tennessee at Chattanooga, Chattanooga, TN (1996)  
Bachelor of Music (BM), Hartt School of Music, University of Hartford, Hartford, CT (1983)

**Principle / Master Class Teachers**

Jack Winerock, University of Kansas (2002-2008)  
Zitta Zohar, University of Kansas master class (2008)

Yakov Kasman, 1997 Van Cliburn silver medalist (2001-2006)  
Yoheved Kaplinsky, Van Cliburn Institute master class (2001)  
Thomas Ungar, Van Cliburn Institute master class (2001)  
Thomas Labe, University of TN at Chattanooga (1994-1996)  
Luiz de Moura Castro, Hartt School of Music (1980-1985)  
Loren Hollender, Hartt School of Music master class (1981)  
Charles Bruck (coach), Hartt School of Music (1983-1985)

### **Programming Languages**

Web Development – Sun Microsystems Java, Javascript, Microsoft ASP (Active Server Pages), HTML (HyperText Markup Language), PHP (Hypertext Preprocessor).

Database Management – Oracle SQL (Structured Query Language), IBM DB2 SQL, Microsoft SQL Server 6.5, MySQL, IBM VSAM (Virtual Storage Access Method), IBM DB DL/I (Database Data Language/Interfacing).

UNIX Programming – Sybase PowerBuilder, MicroFocus COBOL (Common-Business-Oriented Language).

Mainframe Programming – IBM CICS (Customer Information Control System), ANSI COBOL, IBM DFHSM (Data Facility Hierarchical Storage Manager) Utilities, CA Easytrieve Plus, IBM JCL (Job Control Language) IBM-compatible SAS (Statistical Analysis System).

### **Funded Grants, Board Memberships, and Awards**

Award – “Honored Artist of the American Prize, 2022” in recognition of two decades of advocacy work raising awareness for the benefits of music in medicine – 2022.

Grant – The UNFoundation of Chattanooga - Funding to complete the *Notes to Blocks* project designed to automate the creation of color-coded note patterns for individuals unable to read regular music notation – 2021.

Grant – Tennessee Arts Commission, Special Opportunities – Funding to initiate a therapeutic music database for creative outreach in telehealth solutions during the time of Covid-19 – 2021.

Grant – Tennessee Arts Commission, Arts Build Communities (via ArtsBuild of Chattanooga) – The Power of Music: a livestream concert event weaving together the unique scientific, aesthetic, and therapeutic elements of music into an eloquent framework universally recognized during the time of Covid-19 – 2020.

Grant – The UNFoundation of Chattanooga - Funding to initiate the *Chattanooga Musician's Relief Fund* project to provide help for Chattanooga area musicians impacted by loss of work during Covid-19 – 2020.

Grant - Tennessee Arts Commission, Arts Build Communities (via ArtsBuild of Chattanooga) - Funding to create a database of new music samples and compositions developed/composed specifically for the purpose of therapeutic music usage. Various tempi, timbre, and genre will meet the needs of the individual and be a tool that doctors, therapists, educators, and caregivers can all use for their clients. The database will be open access and available for universal use once created - 2018.

Grant- Tennessee Arts Commission, Arts Build Communities (via ArtsBuild of Chattanooga) - Funding to continue the concert series to disseminate information on how the arts can help improve neural networks. Chamber Music for Body and Soul V is a collaborative project with the UTC Department of Performing Arts, the UT College of Medicine Chattanooga, and the Erlanger Neuroscience Institute to bring information about music and the brain to the arts audience and medical staff, and to advocate for the cause of music in therapy - 2017.

Award – Hartt School of Music (The University of Hartford) 2017 Alumni of the year - 2017.

Award - CoLab of Chattanooga's "Will This Float" contest. First place for pitching the idea of automating biomedical music protocols into software - 2016.

Grant - Tennessee Arts Commission, Arts Build Communities (via ArtsBuild of Chattanooga) - Funding to continue the concert series to disseminate information on how the arts can help improve neural networks. *Dance of the Neural Tango* project will include concerts, workshops, and lectures as well as working with local medical facilities to get musicians to play in public areas to advocate for the cause of music in therapy – 2016.

Grant - University of Tennessee at Chattanooga, Collaborative Research Initiative for Sponsored Programs (CRISP) - Funding in partnership with UTC Department of Physical Therapy to determine if Rhythmic Auditory Stimulation (RAS) will assist persons who have early stage cancer who are more likely to have Exercise Deficiency Disorder (EDD) – 2016.

Grant - Tennessee Arts Commission, Arts Build Communities (via ArtsBuild of Chattanooga) - Funding to continue the concert series to disseminate information on how the arts can help improve neural networks. *Dance of the Neural Tango* project will include concerts, workshops, and lectures to advocate for the cause of music in therapy – 2015.

Grant - Tennessee Arts Commission, Arts Build Communities (via ArtsBuild of Chattanooga) - Funding to continue the *Concert Music N.O.T.E.S* (Neural Optimization Through Essential Styles) project to disseminate information on how the arts can help improve neural networks – 2014.

Grant - Tennessee Arts Commission, Arts Build Communities (via ArtsBuild of Chattanooga) - Funding to initiate the *Concert Music N.O.T.E.S* project to disseminate information on how the arts can help improve neural networks – 2013.

Grant - The UNFoundation of Chattanooga - Funding to initiate the *Concert Music N.O.T.E.S* project to help disseminate information on how the arts can help improve neural networks – 2013.

Member of Board, Jan Pennington Gray Harp Scholarship – 2011-present.

Award - Heartspring Award for Innovation and Creativity in Special Education, Honorable Mention – 2009.

Award - Nomination to Phi Kappa Phi Honor Society for outstanding academic achievement – 2007.

Grant - Community Foundation of Greater Chattanooga in partnership with Orange Grove Center - Training local therapeutic professionals at Orange Grove in the utilization of biomedical music techniques – 2007.

Member of Board, American Association of Multi-Sensory Environments – 2006-present.

Grant - CVS Cares - Initiate software specification design to automate biomedical music techniques – 2006.

Grant - Community Foundation of Greater Chattanooga in partnership with the University of Tennessee at Chattanooga - Biomedical music lab creation on the UTC campus – 2005.

Award - Women of Distinction Award - Tennessee Valley Board of Directors awards outstanding women in the TVA workforce for community involvement utilizing musical arts – 1998.

Award - George B. Westinghouse Award of Excellence for outstanding leadership in the workforce – 1991.

### **Invited Presentations and Clinics**

International Association for Music and Medicine bi-annual international conference (IAMMISfAM) 2024 - *Notes2Blocks: Rehabilitation through Music*. – Berlin, Germany.

Sempre MET2024 | Music – Education – Technology conference – *Notes2Blocks: Learning and Rehabilitation through Music*. – University of Hull, UK.

Chattanooga Autism Center Annual Conference 2023 - *Dancing the Neural Tango: Biomedical Music Protocols and Tech Apps*. – Chattanooga, TN.

Tennessee Disability MegaConference 2023 - *Dancing the Neural Tango: Therapeutic Music Protocols for Persons with Physical, Intellectual, or Developmental Disabilities*. – Nashville, TN.

University of Northern Alabama, Sunseri Speaker Series 2023 - *Dancing the Neural Tango: The Science of Music and the Brain*. – Florence, AL.

University of Northern Alabama College of Nursing, guest lecture 2023 - *Music and Neuroscience: A Discussion of how Biomedical Music Protocols Can Enhance Neurological Functions in Rehabilitation for Improvements with Cognition, Motor Function, and Speech Production*. – Florence, AL.

University of Northern Alabama School of Music, guest lecture 2023 - *The Neural Tango: An Overview of the Musician's Brain*. – Florence, AL.

University of Tennessee at Chattanooga Department of Performing Arts, music therapy guest lecture 2023 - *The Neural Tango: An Overview of Music and the Brain*. - Chattanooga, TN.

International Association for Music and Medicine (IAMM) bi-annual international conference 2022 – *A Musical Revolution in Healthcare Directed by the Consumer*. - Athens, Greece.

American Business Women's Association (ABWA) Scholarship Banquet, guest lecture and performance 2022 – *The Neural Tango: Music and the Brain*. - Dunlap, TN.

University College London, SEMPRESMET and TMOHE joint conference 2022 - *Notes to Blocks: An Automated System to Create Color-Coded Music Scores*. - London, England.

University of Texas at Dallas, Department of Brain and Behavioral Sciences guest lecture 2021 – *The Neural Tango: Biomedical Music Protocols for Motor, Speech, and Cognition Challenges*. - Dallas, TX.

University of Oregon collegiate NAFME (National Association for Music Education) organization guest lecture 2021 - *The Neural Tango: An Overview of Music and the Brain*. - Eugene, OR.

University of Tennessee at Chattanooga Department of Performing Arts, music therapy guest lecture summer 2021 - *The Neural Tango: An Overview of Music and the Brain*. - Chattanooga, TN.

WRCB-TV's "3 Plus You" TV show with Julie Edwards 2021 - *Three Plus Your Community - Power of Music Concert*. WRCB-TV studio - Chattanooga, TN.

Royal College of Music, RiME2021/MET2020 Conference 2021 - *A Musical Revolution in Health Care: Advocating Directly to the Consumer*. - London, England.

Royal College of Music, RiME2021/MET2020 Conference 2021 - *Creating a Smart Beat: A Music Database Designed for Therapeutic Use*. - London, England.

Ohio State University, Future Directions of Music Cognition Conference 2021 - *Reaching Across the Aisle: The Essential Need for Collaboration among Researchers, Medical Personnel, Therapists, Musicians, and Educators*. - Columbus, OH.



University of Tennessee at Chattanooga Department of Performing Arts, music therapy guest lecture winter 2021 - *The Neural Tango: An Overview of Music and the Brain*. - Chattanooga, TN.

TEDxChattanooga 2020 presentation – *The Neural Tango: A Musical Transformation in Healthcare* – Chattanooga, TN.

University of Texas at Dallas, Department of Brain and Behavioral Sciences guest lecture 2020 – *The Neural Tango: Biomedical Music Protocols for Motor, Speech, and Cognition Challenges*. - Dallas, TX.

Mountain State Conference on Disabilities 2020 – *Dancing the Neural Tango: Biomedical Music Protocols for Persons with Motor, Speech, and Cognition Challenges*. - Morgantown, WV.

Erie Philharmonic webinar discussing music and health with Erie Phil representatives 2020 – *Erie Phil from Home, Episode 44*. - Erie, PA.

National Association for the Education of Young Children (NAEYC) national conference 2019 – *Dancing the Neural Tango: Music to Assist and Motivate Learning Processes for Neuro-typical Children and Those with Intellectual or Developmental Disabilities*. Omni Hotel conference center - Nashville, TN.

Chattanooga Music Teachers Association open membership meeting 2019 – *Biomedical Music Techniques: Ideas for the Studio and Classroom*. Concord Baptist Church - Chattanooga, TN.

Dayton Philharmonic Orchestra presentation for executive leadership and staff 2019 – *Creating a Model for Sensory Friendly Concerts*. Dayton Philharmonic offices - Dayton, OH.

Dayton Opera presentation for executive leadership and staff 2019 – *Creating a Model for Sensory Friendly Opera*. Dayton Philharmonic offices - Dayton, OH

Hixson High School special class presentation 2019 – *A Brief Taste of #MusicScience with Biomedical Music and Music Therapy*. Hixson High School - Hixson, TN.

Erlanger Hospital Western Carolina "Ladies' Night Out" 2019 – *Music Heals Mind, Body, and Soul: Feel the Rhythm; Learn the Science*. McGuire's Millrace Farm - Murphy, NC.

League of American Orchestras national conference 2019 – *Advocacy of the Neural Tango: Orchestras Creating Awareness of the Benefits of Music in Medicine*. Omni Hotel conference center - Nashville, TN.

Brain Injury Association of Tennessee's 30<sup>th</sup> annual Traumatic Brain Injury conference 2019, Keynote presentation – *Dance of the Neural Tango*. Nelson Andrew Leadership Center - Nashville, TN.

Chattanooga State Community College musicianship class 2019 – *A Brief Overview of Biomedical Music Techniques*. Chatt State Humanities Building - Chattanooga, TN.

The Arc TN's "Big Ideas" conference 2019 – *N.O.T.E.S. (Neuro Optimization To Ensure Success) of the Neural Tango*. The Inn at Opryland Conference Center – Nashville, TN.

2<sup>nd</sup> Annual Southeast Adult Autism Symposium 2018 – *Discovering the Collective Rhythm: Neural and Societal Connections Through Music*. Chattanooga Hotel Conference Center – Chattanooga, TN.

Sempre MET2018 2018 – *Biomedical music protocols benefit children with special needs*. Senate House, University of London – London, England.

WUTC 88.1 "Around and About" 2018 - *Chamber Music for Body and Soul V Concert/Lecture Shows How Music Affects Our Brains - with Michael Miller*. WUTC Studio - Chattanooga, TN.

WRCB-TV's "3 Plus You" TV show with Julie Edwards 2018 – *Chamber Music for Body and Soul V - a concert to highlight music in therapy*. WRCB-TV studio - Chattanooga, TN.

Hartt School of Music (University of Hartford) composer's seminar 2017 – *The life and music of James Sellars*. Bliss Recital Hall, Hartt School of Music - Hartford, CT.

The Neurosciences and Music VI - Music, Sound, and Health conference 2017 - *Impact of RAS (Rhythmic Auditory Stimulation) on physical activity levels and ambulatory walking behaviors of children with special medical needs*. Harvard Medical School - Boston, MA.

Neural Entrainment and Rhythm Dynamics (NERD) conference 2017 - *Rhythmic Auditory Stimulation (RAS) for children with autism utilized in both traditional and innovative pathways*. Harvard Medical School - Boston, MA.

Hartt School of Music (The University of Hartford) 2017 - commencement speech, acceptance of 2017 Alumni of the year, Lincoln Theater, University of Hartford - Hartford, CT.

The Company Lab (CoLab) spring accelerator showcase 2017 - *Unveiling the prototype: Automation of Musical Attention Control Training (MACT) into a software app that can be used on a mobile device*. The Granfalloon - Chattanooga, TN.

University of Tennessee at Chattanooga Research Dialogues 2017 - *Impact of Rhythmic Auditory Stimulation on Physical Activity Levels and Ambulatory Walking Behaviors of Children with Medical Needs*. UTC University Center - Chattanooga, TN.

Chattanooga State Community College musicianship class 2017 – *A Brief Overview of Biomedical Music Techniques*. Chatt State Humanities Building - Chattanooga, TN.

MTNA (Music Teachers National Association) National Conference 2017 - *Biomedical Music Techniques in the Music Studio and the Classroom*. MTNA 2017 National Conference - Baltimore, MD.

University of Tennessee at Chattanooga advanced piano pedagogy class 2017 - *Working with Special Learners in the Classroom using Biomedical Music Techniques*. Cadek Conservatory - Chattanooga, TN.

String Theory Youth Initiative 2016 - *Biomedical Music techniques: An Overview*. Southside Studio - Chattanooga, TN.

University of Tennessee at Chattanooga Composers Seminar 2016 - *Biomedical Music Techniques and Messiaen's Quartet for the End of Time*. UTC Fine Arts Center - Chattanooga, TN.

WUTC 88.1 "Around and About" 2016 - *Concert for the End of Time: Dr. Martha Summa-Chadwick talks Music Therapy and PTSD with Jacqui Helbert*. WUTC Studio - Chattanooga, TN.

WRCB-TV's "3 Plus You" TV show with Julie Edwards November 2016 - *Music and the brain - a concert to highlight music in therapy*. WRCB-TV studio - Chattanooga, TN.

Vanderbilt University: Music Mind Society Annual Symposium – the Science of Song 2016 – *Impact of Rhythmic Auditory Stimulation on Physical Activity Levels and Ambulatory Walking Behaviors of Children During the Early Phases of Cancer Treatment* – Nashville, TN.

DifferentBrains.com with Dr. Hackie Reitman, internet interview 2016 – *Rewire Your Brain to the Beat: Music Therapy for the Neurodiverse, with Martha Summa EDB 3.8*

Chattanooga Autism Conference 2016 – *Biomedical Music Techniques for Motor, Speech, and Cognition Challenges* – Chattanooga, TN

Vanderbilt University: Pace, Pitch and Rhythm - the Essentials to Conducting Music Treatment Research 2016 – *Biomedical Music Techniques to Assist Persons with Motor, Speech, and Cognition Challenges* – Nashville, TN.

University of North Georgia undergraduate research conference, keynote speech 2016 – *Biomedical Music Techniques: Overview and Collaborative Research* – Gainesville, GA.

WRCB-TV's "3 Plus You" TV show with Julie Edwards March 2016 – *Music Benefits Everyone* – Chattanooga, TN.

TEDxChattanooga 2016 presentation, University of Tennessee at Chattanooga Fine Arts Center – *Dance of the Neural Tango* – Chattanooga, TN.

WGOW 102.3 FM "Chewin' the Chatt" radio show with Jed Mescon 2016 – *A discussion of the benefits of music for the senior population* – Chattanooga, TN.

WRCB-TV's "3 Plus You" TV show with Jed Mescon January 2016 – *The benefits of music for both neuro-typical and special needs persons* – Chattanooga, TN.

Cadek Conservatory of Music, pre-concert lecture 2015 – *Dan Landrum Dances the Neural Tango* – Chattanooga TN.

Chattanooga Autism Center, workshop 2015 – *Utilizing Biomedical Music Techniques for Persons with Autism* – Chattanooga TN.

Society for Music Perception and Cognition biannual conference 2015 –  
*Biomedical Music Techniques to Assist Children on the Autism Spectrum* – Nashville TN.

Sequatchie County School Systems, in-service teacher training 2015 – *Using Biomedical Music Techniques in the Classroom* – Dunlap TN.

Siskin Hospital for Physical Rehabilitation, Parkinson's Disease Support Group 2015 – *Biomedical Music Techniques – Information and Application to Parkinson's Disease* – Chattanooga, TN.

WRCB-TV's "3 Plus You" TV show with Jed Mescon June 2015 – *Biomedical Music to Assist Persons with Autism* – Chattanooga, TN.

Barber National Institute, in-service teacher training 2015 – *Biomedical Music Techniques for Motor, Speech, and Cognition afflictions* – Erie, PA.

Gannon University 2015 – *Biomedical Music Techniques and the Brain* – Erie, PA.  
WRCB-TV's "3 Plus You" TV show with Jed Mescon April 2015 – *Biomedical Music to Assist Persons with Parkinson's Disease* – Chattanooga, TN.

Chattanooga State Community College 2015 – *A Brief Taste of the Art and Science behind Biomedical Music Techniques* – Chattanooga, TN.

Scenic Chattanooga Optimist Club 2014 – *Biomedical Music Strategies for Children with Special Needs* – Chattanooga, TN.

Potomac Highlands Guild, workshop for parents 2014 – *Biomedical Music Strategies for Parents of Children with Special Needs* – Keyser, WV.

Potomac Highlands Guild Board of Social Work Examiners, workshop for therapists and educators 2014 – *Music and Neuroscience: Using Music to Enhance Neurological Function for Improvements in Cognition, Sensorimotor Function, and Speech Production* – Keyser, WV.

Tennessee Arts Commission, Create 2014 – *Biomedical Music Strategies* – L & N STEM Academy, Knoxville, TN

Hartt School of Music 2014 – *Tales of the Neural Tango, a workshop concert* – University of Hartford, Hartford, CT.

Hartt School of Music 2014 – *Paranov Hour – Ideas to Integrate Music with Learning* – University of Hartford, Hartford, CT.

American Association of Multi-Sensory Environments – advanced training biomedical music module 2014 – *Biomedical Music Strategies for persons with motor, speech, and cognitive disorders* – Orange Grove Center, Chattanooga, TN.

Mothers Moving Mountains Autism Support Organization 2013 – *Biomedical Music Strategies for Children with Autism* – Chattanooga, TN.

Benton County, Tennessee, in-service teacher training 2013 – *The Exceptional Learner in the Elementary School Classroom: Ideas for Differentiated Instruction* – Camden, TN.

University of Tennessee at Chattanooga musicianship class 2013 – *Play Long and Prosper* – Chattanooga, TN.

TMTA (Tennessee Music Teachers Association) state conference 2013 – *The Exceptional Learner in the Music Classroom: Ideas for Differentiated Instruction* – Chattanooga, TN.

University of Tennessee at Chattanooga 2012 – *The Exceptional Learner in the Music Classroom: Ideas for Differentiated Instruction* – Chattanooga, TN.

Chattanooga Collegiate Chapter of MTNA (Music Teachers National Association) 2011 – *Outside the Box: Teaching Music to Students with Special Needs* – Chattanooga, TN.

Southeastern Autism Symposium 2009 – *Neuro Music Protocols and Neurological Function* – Cleveland, TN.

Orange Grove Center 2008 – *Three day training session in collaboration with University of Kansas and Colorado State University.* All educators, physical and occupational therapists and speech therapists were offered training in Biomedical music techniques – Chattanooga, TN.

Chattanooga Mayor's Council on Disabilities 2007 – *An explanation of how Biomedical music techniques help persons with special needs, and a concert to celebrate the techniques* – Chattanooga, TN

Southeastern Autism Symposium 2007 – *Computer Technology To Assist with Cognition Processes for Persons with Autism* – Cleveland, TN.

Southeastern Autism Symposium 2006 – *Approaches in Neurologic Music Therapy for Children with Autism Spectrum Disorders* – Cleveland, TN.

American Music Therapy Association National Conference 2006 – *Computer Technology to Assist with Cognition Processes for Persons with Autism* – Kansas City, KS.

Consortium for Computing Sciences in Colleges Southeastern Regional Conference 2005 – *A Computerized System for Neurologic Music Therapy* – Hickory, NC.

TMTA State Conference 2004 - *Approaches in Neurologic Music Therapy for the Music Teacher with Special Needs Children* – Chattanooga, TN

MTNA (Music Teachers National Association) National Conference 2004 - *Approaches in Neurologic Music Therapy for the Music Teacher with Special Needs Children* – Kansas City, KS

Graduate Education Class, University of Tennessee at Chattanooga 2003 - *Approaches in Music Therapy for consideration by secondary and middle school teachers* – Chattanooga, TN

World Piano Pedagogy Conference 2003 - *Approaches in Neurologic Music Therapy for the Music Teacher with Special Needs Children* – Nashville, TN

Chattanooga Autism Advisory Board - *2003 Music Therapy Gateway in Communication, a Project Using Neurologic Music Therapy* – Chattanooga, TN

CMTA (Chattanooga Music Teachers Association) 2002 - *The Van Cliburn Institute* – Chattanooga, TN

CMTA 2001 - *Memorization – Thought patterns, Coping Skills, and Perspective in Performance* – Chattanooga, TN

Bryan College, guest lecture Piano Pedagogy class 1997 - *Piano music of the 20th century, a historical and theoretical approach* – Dayton, TN

CMTA 1997 - *Piano music of the 20th century, a historical and theoretical approach* – Chattanooga, TN

## Publications

Summa-Chadwick, M., Novobilski, A., Shipley, R. (2023). Learning Music is Now Accessible to All. *HELEN: The Journal of Human Exceptionality*, December 2023.

Summa-Chadwick, M., Weiser, S. (2022). Dancing the Neural Tango: Educational Outreach. *HELEN: The Journal of Human Exceptionality*, September 2022, 38-5042.

Rajendran, T., Summa-Chadwick, M. (2022). The scope and potential of music therapy in stroke rehabilitation. *Journal of Integrative Medicine*, April 2022, ISSN 2095-4964, <https://doi.org/10.1016/j.joim.2022.04.006>.  
(<https://www.sciencedirect.com/science/article/pii/S2095496422000528>)

Summa-Chadwick, M. (2021). Concert Event: The Power of Music. *Exceptional Parent Magazine*, July 2021, 48-49.

Elverd, K., Summa-Chadwick, M. (2018). Music Therapy: A Different Kind of Beat. *Healthscope Magazine*, May 2018, 56-57.

Summa-Chadwick, M. (2018). Raising Awareness for the Benefits of Music Therapy. *Exceptional Parent Magazine*, February 2018, 50-51.

Summa-Chadwick, M. (2017). "Music as an Alternative to Opioids: Pain Management Stretches to New Paradigms" (reprinted with permission from Exceptional Parent Magazine). Online blog at DifferentBrains.com, October 2017. <http://differentbrains.org/music-alternative-opioids-pain-management-stretches-new-paradigms/>

Summa-Chadwick, M. (2017). Music as an Alternative to Opioids: Pain Management Stretches to New Paradigms. *Exceptional Parent Magazine*, August 2017, 48-50.

Summa-Chadwick, M. (2016). "Synesthesia, PTSD, and Chamber Music: A Concert to Celebrate the Benefits of Music for Therapy" Online blog at DifferentBrains.com, August 2016. <http://differentbrains.com/synesthesia-ptsd-chamber-music-concert-celebrate-benefits-music-therapy/>



Summa-Chadwick, M. (2016). "The Benefits of Music for Therapy and the Neurodiverse" Online blog at DifferentBrains.com, August 2016. <http://differentbrains.com/the-benefits-of-music-for-therapy-neurodiverse/>

Summa-Chadwick, M. (2016). "The Neural Tango Plays On" Online blog at DifferentBrains.com, June 2016. <http://differentbrains.com/neural-tango-plays/>

Summa-Chadwick, M. (2015). "Dance of the Neural Tango" Educational Events in Tennessee, *Exceptional Parent Magazine*, October 2015, 5.

Summa-Chadwick, M., Weiser, S. (2015). The Power of Therapeutic Music Through the Eyes of Compositional Legends. *Exceptional Parent Magazine*, March 2015, 46-48.

Summa-Chadwick, M. (2009). The Power of Music. *Exceptional Parent Magazine*, July 2009, 70-74.

Summa-Chadwick, M. (2008). Music – A Gateway to Reaching Developmental Processes of Children with Special Needs, *ProQuest Dissertations*, Ann Arbor, MI.

Summa-Chadwick, M. (2006). MTGIC in Chattanooga. *Exceptional Parent Magazine*, February 2006, 70-71.

Harris, B., Summa-Chadwick, M. (2005). A Computerized System for Neurologic Music Therapy. *Journal of Computing Sciences in Colleges*, volume 21, issue 2.

### **Performance experience**

Solo Piano – Encapsulated representative performances over the last fifteen years include solo recital performances of different programs in various locations across the country. Programs have included an all-Medtner lecture recital, as well as a showcase program of lesser-known works by Wölfl, Bernstein, and Tjeknavorian. Current recital program highlights work by composers with neural dysfunction.

Chamber Music – Martha is in demand as both a collaborative artist and chamber player. Typical chamber concerts over the last fifteen years include concerts performed in combination with technical presentations and pre-concert lectures demonstrating the scientific elements of music. Repertoire

emphasizes works by composers with neural dysfunction (Messiaen, Beethoven). Presentations can be made available at local hospitals and rehabilitation centers to disseminate information to the therapeutic staff. Harpsichord soloist – Guest artist appearances with the Huntsville Alabama Symphony 1999, 2006, and 2007.

Piano Concerto soloist – Appearances in Pennsylvania (Erie Chamber Orchestra), New York (Syracuse Symphony), Maine (Pierre Monteaux Domaine School), Connecticut (Hartt School of Music), and Massachusetts (Holyoke Civic Orchestra).

Orchestral player – Keyboard player for multiple performances with the Chattanooga Symphony Orchestra from 2010 to 2018.

Note: Sample programs of prior performances available on request.

### **Ensemble directing / conducting experience**

Director of the Chattanooga Harp Ensemble from 2012 to 2015. The Ensemble, an outreach program of the Jan Pennington Gray Harp Scholarship, performs two sets of programs twice a year and consists of twelve to sixteen harpers playing ensemble music ranging in style from Renaissance, Scottish, Irish, Folk, to many other varied styles of music. Responsible for music selection, musical coaching, and conducting the ensemble.

### **Repertoire**

#### Solo Piano Major Works

Bach Italienisches Konzert

Bach English Suite No. 2 in A Minor

Bach French Suite No. 5 in G Major

Bach Various preludes and fugues from the Well Tempered Clavier I and II

Barber Nocturne, Op. 33

Beethoven Sonata, Op. 13

Beethoven Sonata, Op. 27, No. 2

Beethoven Sonata, Op. 31, No. 2

Beethoven Sonata, Op. 57

Beethoven Sonata Op. 110

Bernstein Sonata for the Piano  
 Brahms Various pieces from Klavierstücke Op. 79, Op. 117, Op. 118, Op. 119  
 Chopin Ballades 1, 2, and 4  
 Chopin Fantasia Impromptu  
 Debussy L'Isle Joyeuse  
 Debussy Various Preludes from Book 1  
 Debussy Pour le Piano Suite  
 DeFalla Pieces Espagnoles  
 Ginastera Dances Argentinas, Op. 2  
 Granados Goyescas 4 and 5  
 Granados Spanish Pieces  
 Mendelssohn Various works from Songs without Words  
 Messiaen Le Baiser de l'Enfant-Jésus, from the Vingt Regards  
 Liszt "Suisse" Années de Pèlerinage – VI. Vallée d'Obermann  
 Medtner Fairy Tale Op. 14, No. 2 (March of the Paladin)  
 Medtner Fairy Tale Op. 20, No. 1  
 Medtner Fairy Tale Op. 53, No. 3  
 Medtner Sonata-Reminiscenza, Op. 38, No. 1  
 Medtner Sonata Tragica, Op. 39, No. 5  
 Mozart Rondo in A Minor, K. 511  
 Mozart Sonata in A Minor, K. 310  
 Piazzolla Tangos, various  
 Prokofiev Sonata No. 7 in B flat Major, op. 83  
 Rachmaninoff Corelli Variations  
 Rachmaninoff Etude-Tableau No. 5, Op. 39  
 Schubert Impromptus 2 and 4, Op. 90  
 Schumann Waldszenen, Op. 82  
 Schumann-Liszt Widmung  
 Scriabin Etude in D sharp Minor  
 Tjeknavorian Fantastic Dances for Piano, Op. 2  
 Wölfl Grand Sonata for the Piano Forte, Op. 25

### Concerto Repertoire

Beethoven Piano Concerto no. 5 in E flat, Op. 73  
 Beethoven Concerto in D major Op. 61 - (nach dem Konzert für Violine

und Orchester)  
Beethoven Fantasy in C minor for Piano, Chorus, and Orchestra, Op. 80  
Gershwin Rhapsody in Blue  
Mozart Concerto no. 20 in D Minor, K466  
Rachmaninoff Concerto no. 2 in C Minor  
Ravel Concerto in G  
Schumann Concerto in A Minor, Op. 54

#### Other Orchestral Piano Solos

Bloch Concerto Grosso for String Orchestra and Piano obbligato  
Stravinsky Petrushka

#### Harpsichord Repertoire

Bach Brandenburg Concerto No. 5

#### Duo Piano Repertoire

Bach Concerto for Two Pianos in C Major  
Bartok Sonata for Two Pianos and Percussion  
Brahms Variations on a Theme by Haydn, Op. 56b  
Debussy En Blanc et Noir  
Katz Sonata for Two Pianos (- “the two key” -)  
Liszt Les Preludes for Two Pianos  
Lutoslawski Variations on a Theme by Paganini  
Mozart Adagio and Fugue, K 426  
Poulenc Sonate pour Deux Pianos  
Rachmaninoff Fantasy (1st Suite) Op. 5  
Rachmaninoff 2nd Suite Op. 17  
Saint-Saens Carnival of the Animals  
Schumann Andante and Variations for Two Pianos  
Stravinsky Petrushka Ballet for Two Pianos arr. by Stravinsky

#### Chamber Music with Three or More Players

Beethoven Trio in B flat Major, Op. 11 for Cello, Clarinet, and Piano

Bolling Suite for Flute and Jazz Piano  
 Brahms Piano Quartet in G minor, Op. 25  
 Brahms Piano Quintet in F minor, Op. 34  
 Brahms Trio for Piano, Violin, and French horn, Op. 40  
 Britten Canticle III, Op. 55 "Still Falls the Rain" for Tenor, French horn,  
 and Piano  
 Chausson Chanson Perpetuelle  
 Messiaen Quartet for the End of Time  
 Piazzolla Estaciones Porteñas (Fours Seasons of Buenos Aires) arranged for  
 Piano, Violin, and Cello  
 Poulenc Trio for Piano, Bassoon, and Oboe  
 Quantz Trio Sonata in C Minor for Flute, Oboe, and Continuo  
 Schoenberg Pierrot Lunaire  
 Schumann Piano Quintet in E flat Major, Op. 44  
 Schumann Piano Quartet in E flat Major, Op. 47  
 Shostakovich Trio in E Minor, Op. 67  
 Temko Still Voices (world premiere) for singers and chamber musicians  
 Weber Trio Op. 63 for Piano, Flute, and Cello  
 Webern Quartet for Clarinet, Saxophone, Piano, and Violin, Op. 22  
 Wilder Suite for French horn, Tuba, and Piano

#### Sonata/duo collaboration with Other Instruments

Abril Fantasia for Clarinet and Piano  
 Bach Oboe sonata in G Minor  
 Bach Sonata no. 1 in G Major for Viola  
 Beethoven Sonata in F Major for French horn and Piano, Op. 17  
 Beethoven Sonata No. 4 in A Minor, Op. 23 for Violin and Piano  
 Beethoven Sonata No. 5 in F Major, Op. 24 for Violin and Piano – "Spring"  
 Beethoven Sonata No. 8 in G major, Op. 30 no. 3 for Violin and Piano  
 Beethoven Sonata No. 9 in A Major, Op. 47 for Violin and Piano -  
 "Kreutzer"  
 Brahms Sonata in E Minor, Op. 38 for Cello and Piano  
 Brahms Sonata in F Major, Op. 99 for Cello and Piano  
 Brahms Sonata No. 1 in F Minor for Viola (and Clarinet)  
 Brahms Sonata No. 2 in E flat Major for Viola (and Clarinet)  
 Brahms Sonata No. 3 in D minor, Op. 108 for Violin and Piano

Casterede Sonatine pour Trombone et Piano  
Copland Duo for Violin and Piano  
Corelli Sonata in G Minor for French horn  
Debussy Sonata for Violin and Piano  
DeFalla Suite Populaire Espagnole for Violin and Piano  
Faure Sonata in A for Violin and Piano  
Franck Sonata in A for Violin and Piano  
Gershwin/Heifitz arrangements from Porgy and Bess for Violin and Piano  
Handel Sonata arranged for Tuba and Piano  
Hindemith Der Schwanendreher for Viola and Piano  
Hindemith Sonata for Bassoon and Piano  
Hindemith Sonata for Trombone and Piano  
Hindemith Sonata for Tuba and Piano  
Kennan Sonata for Trumpet and Piano  
Messiaen Theme and Variations for Violin and Piano  
Milhaud Sonatine for Flute and Piano  
Misek Sonata in A Major, Op. 5 No. 2 for Double Bass and Piano  
Mozart Sonata No. 4 in E Minor, K. 304 for Violin and Piano  
Mozart Sonata in B flat, K. 454 for Violin and Piano  
Mozart Sonata in A, K. 526 for Violin and Piano  
Mozart Sonata No. 15 in B flat Major, K. 454 for Violin and Piano  
Muczynski Sonata for Flute and Piano, Op. 14  
Poulenc Sonata for Clarinet and Piano  
Poulenc Sonata for Flute and Piano  
Proto Sonata "1963" for Double Bass and Piano  
Purcell Sonata in D for Trumpet  
Saint-Saens Sonata for Oboe and Piano  
Schubert Sonata in G Minor, D408 for Violin and Piano  
Schubert Sonata in A Minor for Double Bass and Piano, "Arpeggione"  
Schumann Drei Romanzen for Oboe  
Schumann Fantasiestücke, Op. 73 for Violin and Piano  
Schumann (Clara) Three Romances for Violin and Piano, Op. 22  
Shostakovitch Sonata for Viola and Piano  
Sibbing Sonata for Tuba and Piano  
Tanner Sonata for Marimba and Piano  
Telemann Sonata in F Minor for Bassoon and Piano

Telemann Oboe sonata in A Minor  
Turina Ciclo Plateresco for Harp and Piano  
Vivaldi Sonata No. 6 in G Minor arranged for Saxophone  
Weber Grand Duo Concertante for Clarinet and Piano, Op. 48

Vocal Literature Accompaniments

Beethoven An Die Ferne Geliebte  
Debussy Quatre Chansons de Jeunesse  
Poulenc Banalités  
Schumann Dichterliebe  
Schumann Frauenliebe und Leben  
Many songs of Brahms, Debussy, Faure, Schubert, Schumann, Strauss, Wolf

Musicals Accompanied / Performed

Annie - Music by Charles Strouse, Lyrics by Martin Charnin  
Baby - Music by David Shire, Lyrics by Richard Maltby, Jr.  
Bye Bye Birdie - Music by Charles Strouse, Lyrics by Lee Adams  
Cole - Music & Lyrics by Cole Porter  
Do I Hear A Waltz - Music by Richard Rodgers, Lyrics by Stephen Sondheim  
Evita - Music by Andrew Lloyd Webber, Lyrics by Tim Rice  
Godspell - Music & Lyrics by Stephen Schwartz  
Gypsy - Music by Jule Styne, Lyrics by Stephen Sondheim  
Half a Sixpence - Music & Lyrics by David Heneker  
Jacques Brel Is Alive and Well and Living in Paris - Music and Lyrics  
by Jacques Brel  
Merrily We Roll Along - Music & Lyrics by Stephen Sondheim  
Nine - Music & Lyrics by Maury Yeston  
The Rink - Music by John Kander, Lyrics by Fred Ebb  
The Rothschilds - Music by Jerry Bock, Lyrics by Sheldon Harnick  
Sunday in the Park with George - Music & Lyrics by Stephen Sondheim  
Sweeney Todd - Music & Lyrics by Stephen Sondheim  
Take Me Along - Music & Lyrics by Bob Merrill  
They're Playing Our Song - Music by Marvin Hamlisch,  
Lyrics by Carole Bayer Sager

Operas Accompanied / Performed

Amahl and the Night Visitors - Gian Carlo Menotti

The Ballad of the Bremen Band - Dennis Arlan

Il Barbiere di Siviglia - Giovanni Paisiello

La Cenerentola - Gioachina Rossini

Gianni Schicchi - Giacomo Puccini

Hänsel und Gretel - Engelbert Humperdinck

Nosferatu - Alva Henderson/Dana Gioia

The Old Maid and the Thief - Gian Carlo Menotti

Pelleas and Melisande - Claude Debussy

La Serva Padrona - G.B. Pergolesi

Suor Angelica - Giacomo Puccini

Turandot – Giacomo Puccini