

## Music and Medicine

Many health related afflictions affect musicians, from noise induced hearing loss and hand injuries to damaged vocal chords and muscle disorders, but specific strategies can be used to mitigate risk. UNT faculty members collaborate with a network of national associations and colleagues across music and medical disciplines to improve health and quality of life. Expertise encompasses advanced biomedical and performance engineering theory and technologies, music therapy and performance counseling, and policy and curriculum development, with a comprehensive focus on audiology related health issues. UNT has emerged as an educational model in the music and medicine field for its award-winning and pioneer research in raising awareness about sound exposure and developing preventative measures to protect hearing. Research projects, training, instructional activities, and services benefit traditional and non-traditional performance practice and groups, from university and public school music ensembles to educators and clinicians.

- **Nationally recognized educational model in the area of hearing loss prevention**
- **Home to the Texas Center for Music and Medicine, an award-winning resource for hearing loss prevention in musicians**
- **Use of innovative and advanced electroacoustic technologies, clinical research, counseling, and training across music and medicine disciplines**
- **First school in the State of Texas to integrate hearing loss prevention classes and guidelines in the curriculum**
- **The National Association of Schools of Music adopts UNT's "Health Promotion in Schools of Music" guidelines**
- **Distinguished endorsements from the National Institute of Occupational Safety and Health and the National Hearing Conservation Association**

### Representative Faculty

**Kris Chesky**, Director of the Texas Center for Music and Medicine; and Associate Professor of Music: *music therapy; audiology; and occupational and mental health*

**Vijay Vaidyanathan**, Associate Dean of the College of Engineering; and Associate Professor of Engineering Technology: *bioengineering system design; and instrumentation design*

**Kamakshi Gopal**, Professor of Speech and Hearing Sciences: *the auditory system; and auditory processing disorders*

**Amy Amlani**, Associate Professor of Speech and Hearing Sciences: *auditory perception; and electroacoustic characteristics of hearing aids*

**Stephen Austin**, Associate Professor of Voice: *vocal pedagogy; voice science; and vocal performance*

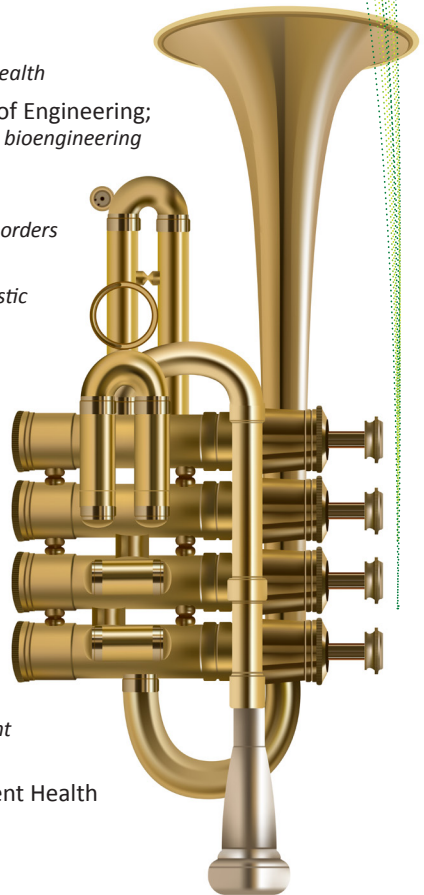
**John Hipple**, Counselor, UNT Counseling and Testing Services: *performance anxiety; stress; and music counseling*

**Yan Huang**, Associate Professor of Computer Science and Engineering: *spatio-temporal databases and mining; and sound measurement technologies*

**John Murphy**, Chair and Professor of the Division of Jazz Studies: *ethnomusicology; jazz history; and jazz improvisation*

**Trent Petrie**, Professor of Counseling Psychology: *sport psychology; athletic injury; and academic adjustment and performance*

**Herschel Voorhees**, Interim Director of UNT's Student Health and Wellness Center: *family practice physician*



## Select Research Resources

### **Texas Center for Music and Medicine**

[music.unt.edu/tcmm](http://music.unt.edu/tcmm)

The center's mission is to explore the relationships between music and medicine and to develop, apply, and disseminate successful strategies and therapies for dealing with medical, audiological, and mental health problems of musicians. An interdisciplinary team of musicians, music educators, clinicians, and research scientists work towards this goal. Shared expertise includes the use of advanced biomedical and performance engineering theory and technologies to study, treat, and prevent various medical problems associated with learning and performing music.

### **University of North Texas Speech and Hearing Center**

[speechandhearing.unt.edu/sphs-clinic](http://speechandhearing.unt.edu/sphs-clinic)

Serving people with speech, language, and hearing disorders since 1967, the center strives to provide superior professional diagnostic and treatment services in speech-language pathology and audiology while providing excellence in clinical education for students in the UNT Department of Speech and Hearing Sciences. The showcase facility boasts a hearing aid dispensary, preschool language room, numerous therapy and diagnostic rooms, and areas for families to observe clinical sessions.

### **PAMA: Performing Arts Medicine Association**

[www.artsmed.org](http://www.artsmed.org)

PAMA is composed of medical professionals, artists, educators, and administrators with the common goal of improving the health care of the performing artist. Members are professionals from around the world in fields that include research, education, and clinical practice. Collaboration with diverse artistic organizations facilitates PAMA's message to wider populations of performers and performers.

### **NHCA: National Hearing Conservation Association**

[www.hearingconservation.org](http://www.hearingconservation.org)

NHCA's mission is to prevent hearing loss due to noise and other environmental factors. The organization provides professional development by improving the skills, practices, and services of its members; providing education and the exchange of information among those involved with hearing conservation; encouraging research and improvement in noise and hearing conservation; and developing guidelines that affect the standards and the regulatory and legislative activities of the field.

### **NASM: National Association of Schools of Music**

[nasm.arts-accredit.org](http://nasm.arts-accredit.org)

Founded in 1924, NASM is the national accrediting agency for music and music-related disciplines and is comprised of schools, conservatories, colleges, and universities with more than 600 accredited institutional members. It has an extensive publications program and provides a spectrum of services such as consultations, statistical information, professional development, and policy analysis. It also establishes national standards for undergraduate and graduate degrees and other credentials.

### **Human Performance Institute at University of Texas, Arlington**

[www-ee.uta.edu/hpi](http://www-ee.uta.edu/hpi)

A research entity within the University of Texas at Arlington, the institute integrates expertise and students from a variety of different departments and collaborating sites to address the complexities of human performance. Its mission is to pursue basic and applied research in the measurement, understanding, and enhancement of human performance, with potential impact in fields ranging from the aerospace industry to medical rehabilitation, occupational medicine, gerontology, and sports medicine.