Bryan M. Wong, AuD, CCC-A

Department of Speech, Language, and Hearing Sciences, The University of Arizona

EDUCATION

Degrees:

The University of Arizona | Tucson, AZ — **Expected Spring 2024**
Doctorate of Philosophy, Speech, Language, and Hearing Sciences
Graduate Minor: Neuroscience

The University of Arizona| Tucson, AZ — **Fall 2019**
Doctorate of Audiology
Graduate Minor: Neuroscience

The University of Arizona | Tucson, AZ — **Spring 2015**
B.S. in Speech, Language and Hearing Sciences
Undergraduate Minor: Special Education

Certifications:

Certificate of Clinical Competence in Audiology (CCC-A) — **Spring 2020 to Present**
American Speech- Language- Hearing Association

University of Arizona | Tucson, AZ — **Fall 2021**
Graduate Certification in College Teaching

University of Connecticut |Storrs, CT — **Summer 2017**
Graduate Certification in Intraoperative Neuromonitoring

CLINICAL EXPERIENCE

Years Active	Position	Institution/Location
June, 2020- present	Per Diem Audiologist	Banner University Medicine North | Ear Institute Tucson, AZ
Jan, 2020-present	Per Diem Audiologist	Carondelet Neurologic Institute | Balance Center Tucson, AZ

TEACHING EXPERIENCE *(* = ONLINE)*

Instructor — **Fall 2021 to 2023**
Co-Instructor — ***Fall 2020**
Class: Anatomy & Physiology of the Auditory & Vestibular System
Department of Speech, Language, and Hearing Sciences, The University of Arizona
Co-Instructor: Frank Musiek, PhD, CCC-A

- Designed and delivered lectures for **8-14 graduate students** on structure/functioning of the peripheral and central auditory and vestibular systems.
- Created and facilitated interactive/collaborative learning activities online and in-person.
- Evaluated student performance on weekly reflective writings, quizzes, and exams.

Instructor — **Fall 2023**
Class: Advanced Audiologic Evaluation Lab
Department of Speech, Language, and Hearing Sciences, The University of Arizona

- Designed and delivered lectures for **8-14 graduate students** demonstrating how to perform audiologic tests, including otoscopy, pure tone testing, speech testing (speech reception threshold, word discrimination), speech-in-noise testing (QuickSIN), and immittance testing (tympanometry, acoustic reflex threshold, acoustic reflex decay).
- Created and facilitated interactive/collaborative lab activities focusing on aforementioned audiologic tests in-person.
- Evaluated student performance on weekly reflective writings, quizzes, lab practicals, and exams.

Instructor **Summer 2022-2023***
& Graduate Teaching Assistant **Spring 2023**
Class: Hearing Science ***Spring 2019 to 2021***
Department of Speech, Language, and Hearing Sciences, The University of Arizona

- Designed and delivered lectures for **18 to 33 undergraduate students** on structure/functioning of the ear (outer, middle, inner, central auditory nervous system) and concepts related to acoustics and psychoacoustics.
- Created interactive in-person and online instructional materials and lab activities.
- Evaluated student performance on discussion posts, lab activities, quizzes, and exams.
- Led and facilitated team activities with teaching assistants and undergraduate preceptors.

Instructor **Spring 2022 to 2023**
& Graduate Teaching Assistant ***Spring 2021**
Class: Hearing, Health, and Society
Department of Speech, Language, and Hearing Sciences, The University of Arizona

- Designed and delivered lectures and in-class activities to **47-50 undergraduate** students on psychosocial impacts of hearing loss and innovation in hearing healthcare.
- Developed instructional videos on how to use technology (Excel, PowerPoint) and on writing tips/tricks.
- Collaborated as part of a teaching team to design and implement a student-centered curricula.
- Read and graded essays, discussion assignments, and exams.
- Led and facilitated team activities with teaching assistants and undergraduate preceptors.

Graduate Teaching Assistant ***Summer 2021**
Class: Principles of Audiology ***Summer 2020**
Department of Speech, Language, and Hearing Sciences, The University of Arizona **Fall 2018**

- Designed and delivered lectures and lab activities for **30 to 50 undergraduate students** on the structure/functioning of the ear (outer, middle, inner, brainstem) and corresponding audiologic tests.
- Created and facilitated in-person and virtual online activities related to performing/interpreting standard audiologic tests commonly used in clinic, including: otoscopy, tympanometry, otoacoustic emissions, pure tone audiometry, speech testing, auditory brainstem response, and vestibular testing.
- Evaluated student performance on quizzes, assignments, exams, and essays.

Graduate Clinical Assistant **Summer 2019**
Clinical Assistant Program
Department of Speech, Language, and Hearing Sciences, The University of Arizona

- Mentored **two undergraduate students** and helped supervise students performing clinical audiologic testing on patients (otoscopy, tympanometry, pure tone testing, speech testing, hearing aid trouble shooting/repair).
- Designed and developed instructional material and resources (otoscopy, tympanometry, pure tone testing, speech testing, hearing aid trouble shooting/repair) for future graduate and undergraduate clinical assistants.

RESEARCH EXPERIENCE AND PROJECTS

Graduate Research Assistant **Fall 2021 to Present**
Audiologic Rehabilitation Lab, The University of Arizona
Lab Director: Nicole Marrone, PhD, CCC-A

- Ongoing research evaluating hearing healthcare disparities and inequities across traditionally marginalized populations.
- Ongoing research evaluating use of implementation science, community-based participatory research methods, and technological innovation to address hearing healthcare disparities and inequities.

Graduate Research Assistant
NeuroAudiology Lab, The University of Arizona **Spring 2016 to Spring 2022**
Lab Director: Frank Musiek, PhD, CCC-A

- Investigated the variation in cortical auditory anatomy across normal and disordered brains via 3D composited MRIs.
- Conducted a meta-analysis of sensitivity and specificity of behavioral central auditory processing tests in neurologically abnormal populations

Student Research Assistant **Fall 2018 to Spring 2019**
Center for Neurosciences, Tucson, AZ
Lab Director: Abraham Jacob, MD

- Utilized an electronic medical record to collect and organize data for cochlear implant outcomes research, including: pre-op/post-op low-frequency pure tone averages, pre-op/post-op pure tone averages, pre-op/post-op audiometric speech testing, type of cochlear implant, side of implantation, cochlear implant impedances and hours of usage, and patient demographics

-PROJECTS-

Spring 2021 to Present

Novel Technology Adoption in the Audiology Clinic: Investigations of Ear Tip Performance, Perceptions, and Experiences (IETPPE)
The University of Arizona
Mentor: Nicole Marrone, PhD, CCC-A

- Ongoing research that evaluates performance and perceptions of different ear tips in individuals with normal hearing and those with hearing loss.
- Ongoing research that seeks to evaluate audiologists' perspectives on adoption of novel technologies.
- Ongoing research that evaluates the implementation of 3D printing and computer aided design in hearing health disciplines.

Classification of Morphology of the Posterior/Superior Temporal Plane **Fall 2016 to Spring 2018**
The University of Arizona
Mentor: Frank Musiek, PhD, CCC-A

- Utilized high-resolution T-1 weighted MRIs, from the OASIS patient database, to analyze volumetric and surface area of the planum temporale/Heschl's gyrus complex
- Established a distinct taxonomy/classification system of planum temporale based on gross morphological differences.

SELECTED PEER-REVIEWED PRESENTATIONS

Wong, B., Kiehlbaugh, K., Marrone, N. (2024, February 15th -February 17th).Investigations of Ear Tip Performance, Perceptions, & Experiences (poster). Presented at the *American Auditory Society 51st Annual Scientific & Technology Conference*. Scottsdale, AZ.

Wong, A., **Wong, B**., Seaton, N., Torres, A., & Marrone, N. (2021, November 19th). Rising to the Challenge: Virtual Teaching and Learning in General Education Classroom (poster). Presented at the *American Speech, Language, Hearing Association Annual Convention*. Washington, DC.

Wong, B. & Musiek, F.E. (2020, March 5th -March 7th). Laterality of Cortical Auditory Structures in Schizophrenic Subjects vs. Normal Controls (poster). Presented at the *American Auditory Society's 47th Annual Scientific & Technology Conference*. Scottsdale, AZ.

Bushor, J., Schefer, M., **Wong, B**., St. George, B. Musiek, F.E. (2020, March 5th -March 7th). Superior Temporal Plane Morphology in Schizophrenic and Normal Brains (poster). Presented at the *American Auditory Society's 47th Annual Scientific & Technology Conference*. Scottsdale, AZ.

Everett, A., **Wong, B.**, Musiek, F.E., Marrone, N., (2019, Feb 28th-March 2nd). Can Auditory Tests Predict Hearing Aid Satisfaction in Adults? (poster). Presented at the *American Auditory Society's 46th Annual Scientific & Technology Conference*. Scottsdale, AZ

St. George, B., **Wong, B.**, Musiek, F.M. (2019, Feb 9th-13th). Assessing Accuracy of a Commonly Used Automated Cortical Parcellation/Labeling Process in Human Auditory Cortex (poster). Presented at the *46th Annual Association for Research in Otolaryngology MidWinter Meeting,* Baltimore, MD

Whiteley, A., **Wong, B.**, St. George, B., Bushor, J., Schefer, M., Clancy, C.M., Musiek, F.M. (2019, Feb 28th-March 2nd). Establishing a Visual Guideline for the Locus of the Auditory Cortex in Humans (poster). Presented at the *American Auditory Society's 46th Annual Scientific & Technology Conference*. Scottsdale, AZ.

Wong, B., Whiteley, A., St. George, B. & Musiek, F. (2018, March 1st -3rd). Planum Temporale: A Morphological Taxonomy of the Posterior Superior Temporal Plane (poster). Presented at the *American Auditory Society's 45th Annual Scientific & Technology Conference*. Scottsdale, AZ.

Wong, B., Everett, A., Whiteley, A., & Musiek, F. (2018, March 1st -3rd). A Review of Diagnostic Indices of the Middle Latency Response (poster). Presented at the *American Auditory Society's 45th Annual Scientific & Technology Conference.* Scottsdale, AZ.

Musiek, F.E. & **Wong, B.** (2017, May 21st -25th). The Middle Latency Response (MLR) and disorders of the central nervous system: An Overview. *Presented at the 25th International Evoked Response Study Group Biennial Symposium.* Warsaw, Poland.

Wong, B., Filippini R. & Musiek, F. (2017, March 2nd -4th). Auditory Temporal Processing Tests: An Indicator of CANS Pathology (poster). Presented at the *American Auditory Society's 44th Annual Scientific & Technology Conference*. Scottsdale, AZ.

PEER-REVIED PUBLICATIONS

Shehorn, J., **Wong, B**., Marrone, N. & Cone, B. (2023). Amplification Effects on the Acoustic Change Complex in Older Adults with Sensorineural Hearing Loss. *Perspectives of the ASHA Special Interest Groups, 8*(6), 1380-1391.

Everett, A., Marrone, N., **Wong, B**., & Musiek, F.E. (2021). Predicting hearing aid satisfaction in adults: A systematic review of speech-in-noise tests and other behavioral measures. *Ear and Hearing, 42*(6), 1485-1498.

Wong, B. M. & Musiek, F.E. (2020). Morphological variance and a related taxonomy of the planum temporale. *Journal of Hearing Science*, *10(*4): 9-19.

Filippini, R., **Wong, B.,** Schochat, E., & Musiek, F. (2020). GIN Test: A Meta-Analysis on its Neurodiagnostic Value. *J Am Acad Audiol,* 31: 147-157. https://doi.org/10.3766/jaaa18079

COMMUNITY AND UNIVERSITY SERVICE

Facilitator, Pathways Annual Meeting **Spring 2023**

- Helped organize and provide live online support for an annual meeting centered around central auditory processing topics for **52 participants**.

Lab Leader, Audiologic Rehabilitation Lab **Spring 2022**

- Provided research and clinical audiology mentorship to three undergraduate students.

Facilitator, Black, Indigenous, People of Color (BIPOC) Panel **April, 2021**

- Facilitated discussion between prospective BIPOC graduate students and BIPOC professionals in Speech, Language, and Hearing Sciences.

Student Coordinator, Research Brown Bag Program (University of Arizona) **Jan, 2019- Aug, 2020**

- Coordinated and facilitated monthly meetings, with PhD and SLHS faculty to discuss topics including: trends in research, professional development, and academia.

President, Student Academy of Audiology (University of Arizona Chapter) **Sept, 2017 – May, 2018**

- Organized events and meetings to bring graduate and undergraduate club members together and help make presence known in the University and local community.

Coordinator, Audiology Journal Club (University of Arizona) **Dec, 2015- May, 2017**

- Coordinated monthly meetings to discuss recent and classic research in Audiology, and other associated fields, among students and professors

Protect Your Ears Project **Jan –March, 2016**

- Helped implement an audiologic hearing health awareness program through

interactive presentations and hands on activities to educate and support underserved school-aged children in Tucson, AZ.

Special Olympics **March, 2014| Nov, 2016**

- Helped provide hearing screenings (pure tone audiometry, tympanometry, OAEs) to Special Olympic athletes.

HOPE Festival **Sept, 2016| Oct, 2017**

- Helped provide hearing screenings (pure tone audiometry, tympanometry) to underserved populations.

- COMMUNITY & GUEST LECTURES -

Community Lecture **March, 2023**
Lecture: "Hearing loss, Auditory Processing, & Dementia: Who's Listening?"
Department of Speech, Language, and Hearing Sciences | The University of Arizona
Co-lecturer: Frank E. Musiek, PhD

- Helped create and conduct a community lecture for over **50 individuals** at La Cholla Hills Senior Living Community regarding hearing loss and its association with dementia and cognitive decline.

Guest Lecturer **April 2022 | Nov 2021**
Lecture: "Audiology...the 'Other' Profession"
Department of Speech, Language, and Hearing Sciences | The University of Arizona
Lead Instructors : Alyssa Sachs, MS & Katlyn Nickels, MS

- Designed and delivered a lecture to **50-60 undergraduate students**, related to structure/functioning of the ear (outer, middle, inner, brainstem), clinical audiologic tests, and differential diagnosis.

Guest Lecturer **Jan 2020**
Lecture: "Neuroanatomy of the Central Auditory Nervous System"
Department of Speech, Language, and Hearing Sciences, The University of Arizona

- Designed and delivered a single lecture for **10 graduate students** related to structure/functioning of the central auditory nervous system and how these structures correspond to behavioral central auditory test interpretation.

Guest Lecturer **Jan 2020**
Lecture: "Signal Processing & Current Perspectives of Electrophysiology"
Department of Speech, Language, and Hearing Sciences, The University of Arizona

- Designed and delivered a lectures to **10 graduate students** on signal processing methods used in auditory evoked potentials (AEPs).
- Facilitated an interactive activity that evaluated the current role and use of AEPs in clinical audiology.

Guest Lecturer **March 2019**
Lecture: "Historical Perspectives on Central Auditory Test Development"
Department of Speech, Language, and Hearing Sciences, The University of Arizona

- Designed and delivered a single lecture to **8 graduate students** on how behavioral central auditory tests were initially developed, how they changed over time, and what tests are commonly used clinic.

Guest Lecturer **March 2019**
Lecture: "Physical Exposures and Occupational Audiology
Mel & Enid Zuckerman College of Public Health, The University of Arizona

HONORS & AWARDS

Student Travel Award **February 2024**
The University of Arizona | Speech, Language, & Hearing Sciences Department

GradSlam Best Recorded Video Presentation Themed Award (2nd place finalist) **March 2023**
The University of Arizona | Graduate Professional Student Council

Research and Project (ReaP) Grant **March 2023**
The University of Arizona | Graduate Professional Student Council

Woodling Sertoma Scholarship **January 2023**
The University of Arizona | Speech, Language, & Hearing Sciences Department

Galileo Circle Scholarship **April 2019 to 2022**
The University of Arizona | College of Science

Graduate Student Award in Teaching **April 2022**
The University of Arizona | College of Science

Graduate Student Award in Scholarship **April 2022**
The University of Arizona | College of Science

National Science Foundation Innovation-Corps Site Program microgrant **October 2021**
The University of Arizona | Tech Launch Arizona

Titans of the Field Scholarship **July 2021**
The University of Arizona | Speech, Language, & Hearing Sciences Department

Engineer Your World Challenge Winner (2nd place finalist) **January 2021**
Arizona FORGE

Communicative Disorders Scholarship **June 202**
Sertoma, Inc.

Midtown Sertoma Club of Tucson Audiology Scholarship **May 2020**
The Midtown Sertoma Club of Tucson| Tucson, AZ

Graduate Minority Student Scholarship **November 2019**
American Speech-Language and Hearing Foundation

Fellows-in-Training Travel Grant (FITT) **October 2019**
American Academy of Audiology Foundation

Sadanand Singh Memorial Scholarship **September 2019**
American Academy of Audiology Foundation

Audiology/Hearing Science Research Travel Award (ARTA) **September 2019**
American Speech-Language-Hearing Association

Graduate Tuition Scholarship **2017- 2018**
The University of Arizona

James and Susan Jerger Award for Excellence in Student Research **April 2017**
American Academy of Audiology Foundation – AudiologyNOW!

PROFESSIONAL MEMBERSHIPS

American Academy of Audiology	**Dec 2016-Present**
American Auditory Society	**Dec 2016-Present**
American Speech-Language-Hearing Association	**Dec 2016-Present**