Anhelina Bilokon

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Education:

Doctorate in Hearing and Speech Sciences (Ph.D.) (*2024 - present*)
University of Maryland, College Park, MD

Clinical Doctorate of Audiology (Au.D.) *(2024)* GPA: 3.9
University of Maryland, College Park, MD

Bachelor of Arts, Hearing and Speech Science *(2020)* GPA: 3.1
University of Maryland, College Park, MD (Major: 3.8)

Publications/ Presentations:

Publications

- Goupell, M.J., **Bilokon A.** (2022). "Support for the frequency dominance region explanation of lateralization of larger than physiologically possible interaural time differences." *Proceeding of the 19th International Symposium of Hearing*.
- Goupell, M.J., Stecker, G.C., Williams, B.T., **Bilokon A.,** Tollin, D.J. (2024). "The rapid decline in interaural-time-difference sensitivity for pure tones can be explained by peripheral filtering." *Journal of the Association for Research in Otolaryngology*, *25*(4), 377–385.
- Hambach B., **Bilokon A.,** Fernandez K., Lee J., Allemang N., Chisholm J., Zalewski C., Christensen J., Brewer C., Redman J., Allen, T.C., Cunningham L. (2024). "Non-Ototoxic Effects of Neoadjuvant PD-1 Blockade (M7824) in Non-HPV HNSCC Patients." (*Under Peer Review).*
- **Bilokon A**. and Choi A., Goupell, M.J. (n.d.). "Low-frequency interaural time differences are resistant to across-frequency binaural interference across a wide range of overall levels." *(In Preparation).*
- **Bilokon A.,** Gibbs E.B., Cleary M., Goupell, M.J**.** (n.d.). "Impact of Aging and the Electrode-to-Neural Interface on Temporal Processing Ability in Cochlear-Implant Users." *(In Preparation).*

Podium Presentations

- **Bilokon A.**, Goupell, M.J. (2024). "Investigating frequency dominance effects in binaural hearing and asymmetries across the lifespan." *Presented at the 5th Joint Conference on Binaural and Spatial Hearing, Omaha, NE, November 2024*.
- **Bilokon A.,** Kim, H.J., Chittiboina P., Laws M., Rampalli I., Johns, J.D., Christensen J., Poling G., Brewer C., Allemang N., Zalewski C. (2023). "Investigation of postural stability and cochleovestibular tumor growth rates in patients with NF2." *Presented at the 2023 NIDCD Fellows Seminar Series, Bethesda, MD, December 2024*.
- **Bilokon A.,** Gibbs, E.B., Cleary M., Goupell, M.J. (2022). "Effects of aging and level on recovery from forward masking in cochlear implant users." *Presented at the Mid-Atlantic Symposium on Hearing, College Park, MD, October 2022*.

Research Posters

- Mosinyan A., Subramanian S., Avenilla S.M., Kim Y., Goupell M.J., **Bilokon A.** (2025). "Cognitive Measures Explain Variance in Speech-in-Noise Among Older Adults." *Undergraduate Research Day, University of Maryland, College Park, MD, April 2025*.
- Kim Y., Goupell M.J., **Bilokon A.** (2025). "How Hearing Asymmetry Impacts Speech & Spatial Perception in Background Noise." *Undergraduate Research Day, University of Maryland, College Park, MD, April 2025*.
- **Bilokon A.,** Kim, H.J., Chittiboina P., Laws M., Rampalli I., Johns, J.D., Christensen J., Poling G., Brewer C., Allemang N., Zalewski C. (2024). "Investigation of Postural Stability and Cochleovestibular Growth Rates in Patients with Neurofibromatosis Type 2." *51st Meeting of the American Auditory Society, Scottsdale, AZ, February 2024*.
- Allemang N., Kim, H.J., Chittiboina P., Laws M., Rampalli I., Johns, J.D., Christensen J., **Bilokon A**., Poling G., Brewer C., Zalewski C. (2024). "Longitudinal Hearing Phenotype in Patients with Neurofibromatosis Type 2." *51st Meeting of the American Auditory Society, Scottsdale, AZ, February 2024*.
- Choi A., **Bilokon A.,** Goupell, M.J. (2024). "The frequency and level dependence of across-frequency binaural interference for interaural time differences." *185th Meeting of the Acoustical Society of America, Ottawa, Canada, May 2024*.

- **Bilokon A.,** Gibbs, E.B., Cleary M., Goupell, M.J. (2023). "Impact of Aging and the Electrode-to-Neural Interface on Temporal Processing Ability in Cochlear-Implant Users." *Conference on Implantable Auditory Prostheses, Lake Tahoe, CA, July 2023.*
- **Bilokon A**., Goupell, M.J. (2023). "The effect of aging and hearing loss on the across-frequency processing of interaural time differences." *184th Meeting of* the *Acoustic Society of America, Chicago, IL, May 2023.*
- Goupell, M.J., Stecker, G.C., Tollin, J.D., **Bilokon A**., Williams B. (2023). "Is the rapid decline in interaural time difference sensitivity above 700 Hz explained by downward spread of excitation into the frequency dominant region." *184th Meeting of* the *Acoustic Society of America, Chicago, IL, May 2023.*
- **Bilokon A**., Goupell, M.J. (2022). "The effect of aging and hearing loss on the across-frequency processing of interaural time differences." *182nd Meeting* of the *Acoustical Society of America, Denver, CO, May 2023.*

Capstone Research Project

- Impact of Aging and the Electrode-to-Neural Interface on Temporal Processing Ability in Cochlear-Implant Users *(2022 - 2024).*

Academic Research Mentoring

- Allison Choi; Undergraduate Honors Thesis - University of Maryland
  - Thesis Title: Examination of the level dependency of across-frequency binaural interference
  - Co-mentor and honors thesis committee member
- Megan Hallihan; Graduate Research Assistant - University of Maryland
- Yuri Kim; Undergraduate Research Assistant - University of Maryland
- Seren Avenilla; Undergraduate Research Assistant - University of Maryland
- Ani Mosinyan; Undergraduate Research Assistant - University of Maryland
- Supreeta Kalyani Subramanian; Undergraduate Research Assistant - University of Maryland
- Alicia Proctor; Undergraduate Research Assistant - University of Maryland

Research Experience:

University of Maryland Auditory Perception and Modeling Lab | College Park, MD
2024 - present
T32 trainee, mentored by Matthew Goupell, Ph.D.

- Conducts research on binaural hearing, hearing asymmetries, aging, and sex differences in cochlear implant outcomes using behavioral and electrophysiological methods.
- Collaborates with the Center for Bioinformatics and Computational Biology, NIH, and other institutions to integrate computational models, analyze large datasets, and advance understanding of auditory processing.
- Applies clinical knowledge to interpret research findings, bridging experimental results with real-world implications for hearing healthcare.

National Institutes of Health/NIDCD, Otolaryngology Branch, Audiology Unit | Bethesda, MD
2023 - 2024
Clinical Research Fellow, mentored by Gayla Poling, Ph.D., Christopher Zalewski, Ph.D.

- Conducted and interpreted routine and advanced research-based comprehensive audiometric and vestibular assessments for both adults and pediatrics, including sedated procedures for a variety of rare and complex genetic diseases and syndromes.
- Provided independent and collaborative statistical insight, analysis, and manuscript support during poster and manuscript development.
- Contributed to the literature review and methodology draft for the NIDCD intramural Innovation Award designed to support the development of highly innovative approaches and technology aimed at significant problems across the NIDCD portfolio.

University of Maryland Auditory Perception and Modeling Lab | College Park, MD
2021 - 2023
Research Assistant for Matthew Goupell, Ph.D.

- Collaborated on and executed team-based literature reviews and research designs focused on binaural hearing, aging, and cochlear implants.
- Developed innovative methodology to investigate frequency dominance in interaural timing differences and localization. Independently formulated and executed experimental protocols for binaural hearing, aging, and cochlear implant research.

University of Maryland School of Public Health | College Park, MD
2020 - 2021
Graduate Research Assistant

- Oversaw comprehensive pre- and post- award activities for grants and contracts, ensuring seamless execution and compliance.
- Produced insightful monthly and annual reports detailing grant proposals and award data, providing stakeholders with valuable insights into financial performance and project progress.

Clinical Experience:

National Institutes of Health/NIDCD, Otolaryngology Branch, Audiology Unit | Bethesda, MD
June 2023 - June 2024
University of Maryland Medical Center | Baltimore, MD
August 2022 - December 2022
Centers for Advanced ENT Care, Feldman ENT Division | Chevy Chase, MD
June 2022 - August 2022
Hearing and Speech Clinic | University of Maryland, College Park, MD
August 2020 - May 2022

Professional Committees:

Hearing, Balance, Tinnitus - Assessment and Intervention (ASHA Convention), *2025*

- Member and Scientific Reviewer

Leadership Experience:

President - Student Academy of Audiology (SAA), *2021 - 2022*

- Organized and executed chapter meetings and events, including fundraisers, humanitarian outreach, hearing screenings, and community outreach.

President - Non-Traditional Student Society (NTSS), *2019 - 2020*

- Promoted and advocated the involvement and success of non-traditional undergraduate and graduate students.

Professional Memberships:

American Speech - Language - Hearing Association (ASHA)
Graduate Student Member - Student Academy of Audiology, *2020 - present*

Related Involvement:

Walk4Hearing D.C. - Washington, D.C.
Volunteer, *2020 - 2021*

- Raised money for the Hearing Loss Association of America.

Maryland Cochlear Implant Center of Excellence - College Park, MD
Volunteer, *2020*

- Assisted and collaborated on aural-verbal group rehabilitative activities for children with cochlear implants and monitored appropriate device function.

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Achievements/
Awards:

NIH T32 Training Grant in Comparative and Evolutionary Biology of Hearing, University of Maryland, *2025-2027*
Conference on Implantable Auditory Prostheses (CIAP) Travel Awardee, *2025*
American Auditory Society Mentor Travel Awardee, *2024*
Michelle Humanick Scholarship, *2020*