ACKNOWLEDGING A NEW AUD

Alyssa Everett, writer and editor of the Neuroaudiology Newsletter, has been a part of the Neuroaudiology Lab for four years and has now successfully completed all requirements to obtain her AuD. Furthermore, she recently completed her PhD Comprehensive exams to officially be considered a PhD candidate and begin her dissertation at the University of Arizona under the mentorship of Dr. Nicole Marrone! Her dissertation will focus on aspects of central auditory processing and related outcomes for individuals with hearing loss. Best of luck, Dr. Everett!

AUDIOLOGY TRIVIA!

Test your knowledge (Answers on the second to last page):
1) True or False: Heschl's gyrus is larger on the right side than the left side of the brain.
2) One of the most widely acclaimed books in our field is, "The Human Auditory System: Fundamental Organization and Clinical Disorders." The lead editor was Gastone Celesia. Is Dr. Celesia....
   a) an audiologist b) a neurologist c) a physiologist or d) a neurosurgeon?
3) Human Interaural Timing Difference (ITD) acuity is on the order of:
   a) Tens of microseconds b) Hundreds of microseconds c) Tens of milliseconds or d) Hundreds of milliseconds
4) Which person won the Nobel prize in medicine in 1914 for research on physiology and pathology of the vestibular system?
   a) Von Bekesy b) Hallpike c) Barany or d) Rothchild
A QUICK AND REWARDING EXPERIENCE

PhD student, Tathiany (Tathi) Pichelli from São Paulo University in Brazil wrapped up her two-month training at the University of Arizona this month. Her research in Brazil pertains to the suppression of otoacoustic emissions and auditory training. A brief interview with Tathi follows:

1) What was your training like before you started your PhD?

- In Brazil, we graduate with a bachelor’s degree in both speech pathology and audiology and are able to begin clinical practice. I went on to receive my master’s degree with my project evaluating the effects of the efferent pathways on acoustic reflectance. Following this, I went on to pursue my PhD.

2) What did you do while you were here in Dr. Musiek’s lab?

- I studied deeply about auditory processing disorders. Specifically, I gave presentations each week to Dr. Musiek and the 1st year AuD students on topics related to auditory processing: temporal integration, temporal processing, dichotic digits, auditory training, and binaural interaction. These presentations allowed me to learn more about auditory processing and allowed me the opportunity to discuss questions I had with Dr. Musiek, one of the best researchers about these topics. Although it was challenging for me because I had to present in English!

3) How might you apply what you learned here to your education or practice in Brazil?

- I think that I can give more support to the students there and this experience with my professional life as well. I can be more secure now when I give an exam of auditory processing or implement auditory training. I know this knowledge gained will help me with my dissertation.

4) Anything you’d like to say about your overall experience here?

- I am very glad about this experience because I could get to know great people including the most important professor. This was a real honor. The stay here was a dream because I worked so hard to be here. Overall, I am very happy and thankful to have had this experience because I know it was a once in a lifetime opportunity.
ARIZONA AUDIOLOGY COALITION

Collaboration of audiologists at a state level has been underway in Arizona. The Arizona Audiology Coalition (AAC) started as a conversation in 2016 and the movement has continued to grow. A survey to establish the needs of Arizona audiologists, as well as a careful look at other state models, were steps in getting established. Since officially launching this coalition, the first audiology-specific professional organization in the state, membership and committee involvement have continued to grow. The AAC held a networking event at the American Academy of Audiology conference in Nashville this past spring and is focusing on upcoming educational opportunities for its members. “If we can grow and strengthen our profession by organizing at the state level, we win,” says Dr. Jacqueline Mangold, Arizona audiologist and current chair of the AAC. Dr. Amy Ariss, AuD, communication director of the group uses the analogy of a school of fish and adds, “Swimming together in a coordinated manner will help us reach our common goals.” For more information, you can contact the group at www.arizonaaudiologycoalition.org.

CAPD GLOBAL CONFERENCE

The third Global Conference on Central Auditory Processing Disorder is coming this Spring on March 30, 2019 from 7:30 am to 3:45pm. The event will take place during the annual American Academy of Audiology Conference in Columbus, OH. The topic of this meeting will be on the Synergies Between Lab and Clinic. Top speakers will include: Drs. Vivian Iliadou, Barbara Shinn-Cunningham, Erick Gallun, and Frank Musiek.

Be sure not to miss this incredible collection of speakers and topics. Find out more information on the AAA Conference website: www.audiology.org/conferences/audiologynow/programcentral-auditory-processing-disorder-capd-global-conference

DID YOU KNOW???

Auditory temporal processing (ATP) is an umbrella term used to describe several subcomponents. In fact, ATP can be broken down into four subcategories: temporal masking, temporal integration, temporal resolution, and temporal sequencing.
UPCOMING CONFERENCES

<table>
<thead>
<tr>
<th>Conference</th>
<th>Date and Location</th>
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<tbody>
<tr>
<td>The ASHA Convention</td>
<td>November 15-17, 2018: Boston, MA</td>
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<tr>
<td>Association for Research in Otolaryngology</td>
<td>February 9-13, 2019: Baltimore, MD</td>
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<tr>
<td>American Auditory Society</td>
<td>February 28-March 2, 2019: Scottsdale, AZ</td>
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<tr>
<td>American Academy of Audiology (AAA)</td>
<td>March 27-30, 2019: Columbus, OH</td>
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<tr>
<td>CAPD Global Conference</td>
<td>March 30, 2019: Columbus, OH</td>
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<tr>
<td>International Hearing Loss Conference</td>
<td>May 5-9, 2019: Ontario, Canada</td>
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UNIVERSITY OF ARIZONA FALL CONFERENCE

On October 19th, The University of Arizona hosted the Insights into Clinical Assessment of the Auditory System conference, featuring speakers Drs. Brad Stach, Frank Musiek, and Tom Muller. Dr. Stach introduced clinical decision making in audiology and avoiding errors in diagnostic thinking. He shared insight and examples on the value of routine, value of resolution, and the value of today in relation to diagnostic thinking. He emphasized the unconscious bias that audiologists may bring with them into appointments and how this can result in cognitive errors. The idea of thinking past “yesterday’s view” was highlighted throughout the presentation and thoroughly engaged the entire audience.

Dr. Musiek discussed the diagnostic efficiency of the Gaps-in-Noise (GIN) procedure and its clinical utility for evaluating temporal resolution. The mechanisms underlying the GIN are important components to understanding speech-in-noise. The sensitivity of the GIN is high across multiple countries and languages. This low effect of language and the 82% sensitivity make it a clinically useful test for individuals who have difficulty with speech perception in noise.

Dr. Muller explained how to integrate students into audiolologic practice with the model used at the University of Arizona, “Super Clinic.” His suggestions provided supervisors with additional tools for their toolbox on observing and evaluating their AuD students.
AN AUDIOLOGY WEDDING!

Congratulations to Stephanie Waryasz and Matt Walkup, who married on October 13th in Sedona, AZ. Stephanie is an audiologist at Boston Medical Center and a graduate of the University of Connecticut, NeuroAudiology lab.

CURRENT RESEARCH IN THE LAB

Alyssa Everett: Currently working on her dissertation titled, "Predicting Hearing Aid Satisfaction Beyond the Audiogram". Additionally, she is working on a Systematic Review evaluating the connection between hearing aid satisfaction and auditory processing testing.

Barrett St. George: Currently working on his dissertation titled, "Hemispheric Processing Asymmetries for Fixed vs. Moving Targets." He is also working on a side project, "Examining the Accuracy of a Commonly-Used Automated Cortical Parcellation/Labeling Technique for Human Auditory Cortex".

Bryan Wong: Currently completing research rotations for his PhD by working with Barrett on the Parcellation/Labeling study.


DID YOU KNOW???

It is still unknown whether sound motion processing reflects a specific "motion detection" neural mechanism, or just the detection of changes in static location over time.

Additionally, there is a demonstrated right-hemisphere dominance for spatial sound processing in humans.

TRIVIA ANSWERS!

1) False. Heschl's gyrus is larger on the left side.
2) Gaston Celesia was (D) a neurosurgeon.
3) Human interaural timing difference acuity is on the order of (A) tens of microseconds
4) (C) Robert Barany won the 1914 Nobel prize in medicine for his vestibular system research.
HAPPY HALLOWEEN FROM THE NEUROAUDIOLGOY LAB

Pictured from left: Tathí Pichelli, Alyssa Everett, Bryan Wong, and Barrett St. George.

Picture credit: Britney Ometz, AuD, CCC–A, Hearing Professionals, Bowie, MD