### **Brian B. Monson, Ph.D.**

1. **Personal History and Professional Experience**
   1. Educational Background

2003 Utah State University; B.S., Electrical Engineering (*Cum Laude*)

2006 Brigham Young University; M.S., Physics – Acoustics

Minor: Vocal Performance

2011 University of Arizona; Ph.D., Speech, Language, and Hearing Science

Minors: Neuroscience, Theatre Arts

* 1. List of Academic Positions since Final Degree

2011-2013 Research Fellow, Department of Neuroscience and Behavioral Disorders, Duke-NUS Graduate Medical School, Singapore

2014-2015 Research Fellow, Department of Pediatric Newborn Medicine, Brigham and Women’s Hospital

2014-2016 Research Fellow, Pediatrics, Harvard Medical School

2014-2016 Research Fellow, Department of Radiology, Boston Children’s Hospital

2015-2017 Research Scientist, Department of Pediatric Newborn Medicine, Brigham and Women’s Hospital

2016-2017 Instructor, Pediatrics, Harvard Medical School

2016-2017 Research Associate, Department of Radiology, Boston Children’s Hospital

2017-present Assistant Professor, Department of Speech and Hearing Science, University of Illinois Urbana-Champaign

2019-present Faculty Member, Neuroscience Program, University of Illinois Urbana-Champaign

2019-present Research Affiliate, Stephens Family Clinical Research Institute, Carle Foundation Hospital

2021-present Assistant Professor, Department of Biomedical and Translational Sciences, Carle Illinois College of Medicine

* 1. Other Professional Employment

**2002 Audio Engineer, IVIE Technologies, Inc., Lehi, UT**

**2002-2003 Sound Engineer, Eclipse 6, Inc., Logan, UT**

**2005 Noise Control Consultant, Orem City Public Works, UT**

**2005-2006 Research Consultant, Samuel Fletcher, Provo, UT**

**2008 Visiting Researcher, Speech/Music/Hearing Group, Royal Institute of Technology, Stockholm, Sweden**

**2009-2011 Research Associate, National Center for Voice and Speech, University of Utah, Salt Lake City, UT**

* 1. Honors, Recognitions, and Outstanding Achievements

2000-2003 Presidential Scholarship (Academic), Utah State University

2002 Inductee, Tau Beta Pi Engineering Honor Society, Utah Gamma Chapter

2003-2006 Physics and Astronomy Scholarship (Academic), Brigham Young University

2004 Outstanding Young Presenter Award in Noise, Acoustical Society of America

2006-2009 Academic Fellowship, Center for Science, Medicine, and the Performing Arts, Dept of Speech/Language/Hearing Sciences, University of Arizona

2007 Best Student Paper Award (First Prize), Acoustical Society of America

2009 Galileo Circle Scholar Award, College of Science, University of Arizona

2010-2011 Ruth L. Kirschstein Predoctoral Individual National Research Service Award, NIH, National Institute on Deafness and Communication Disorders, (NIDCD) F31DC010533, *Project title: High-Frequency Energy in Speech and Voice*

2010 Conference Fellowship, Lessons for Success: Developing the Emerging Scientist, American Speech-Language-Hearing Association (ASHA) and NIDCD

2012 Best Student Paper Award (First Prize), Acoustical Society of America

2012 Women in Acoustics Young Investigator Travel Award, Acoustical Society of America

2015 Conferee (competitive selection), Postdoc Leadership Workshop, Harvard Medical School

2016 Travel Award, Early-career Acousticians Retreat, Acoustical Society of America

* 1. Invited Lectures and Invited Conference Presentations since Last Promotion

*Invited conference presentations*

International

* + 1. **Monson BB** (2018) *Yanny or Laurel? Acoustic and non-acoustic cues that influence speech perception*. Acoustical Society of America 176th Meeting, Victoria, Canada
    2. **Monson BB** (2019) *Assessing perinatal maturation of human primary and nonprimary auditory cortex*. 23rd International Congress on Acoustics, Aachen, Germany
    3. **Monson BB** (2022) *Horizontal directivity patterns for the singing voice.* The Acoustics of Ancient Theatres Symposium, Verona, Italy (invitation accepted)
    4. **Monson BB** (2022) *Speech spectral changes at extended high frequencies associated with increased vocal effort*. 24th International Congress on Acoustics, Gyeongju, Korea (invitation accepted)

National

* + 1. **Monson BB** (2007) *The 1:6 Ratio in Vocal Pedagogy*. Acoustical Society of America 153rd Meeting, Salt Lake City, UT
    2. **Monson BB** (2010). *A Studio with a View: Employing Visualization Software in Your Daily Teaching*. NATS 51st National Conference, Salt Lake City, UT
    3. **Monson BB** (2014) *Are you hearing voices in the high frequencies of speech and voice?* Acoustical Society of America 168th Meeting, Indianapolis, IN
    4. **Monson BB** (2014) *An experience-based approach to auditory perception*. Acoustical Society of America 167th Meeting, Providence, RI
    5. **Monson BB** (2019) *The benefits of extended high-frequency hearing*. Association for Research in Otolaryngology Midwinter Meeting, Baltimore, MD
    6. **Monson BB** (2020) *Benefits of extended high-frequency hearing for speech perception*. Acoustical Society of America 179th Meeting, Acoustics Virtually Everywhere
  1. Offices Held in Professional Societies

2005-2007 *Student Council Chair*, Acoustical Society of America

* 1. Editorships of Journals or Other Learned Publications

None

* 1. Grants Received since Last Promotion at UIUC

2018-2022 Center for Health, Aging, and Disability Pilot Grant, UIUC, $30,000 (total)

*Capturing perinatal auditory experience*

Role: Principal Investigator

2020-2023 R21 DC017820, NIH-NIDCD, $307,220 (direct), $474,508 (total)

*Auditory experience during the prenatal and perinatal period*

Role: Principal Investigator

2021-2026 R01 DC019745, NIH-NIDCD, $1,463,013 (direct), $1,998,358 (total)

*The ecological significance of extended high-frequency hearing in humans*

Role: Principal Investigator

2022-2025 R21 DC020242, NIH-NIDCD, $404,492 (direct), $624,682 (total)

*Investigating the contribution of extended high-frequency hearing loss to poor speech-in-noise perception in clinically normal hearing children and young adults*

PI: Motlagh-Zadeh

Role: Co-Investigator

* 1. Review Panels

2018 American Speech-Language-Hearing Foundation

2020 Campus Research Board, UIUC

2021 Campus Research Board, UIUC

1. **Publications and Creative Works**

# Denotes any publication derived from the candidate’s thesis.

\* Denotes publication that has undergone stringent editorial review by peers.

+ Denotes publication that was invited and carries special prestige and recognition.

^ Denotes publication co-authored by a student or mentee

1. Doctoral thesis title

**Monson BB** (2011). High-frequency energy in singing and speech. Doctoral dissertation, University of Arizona. <http://hdl.handle.net/10150/202695>

1. Books Authored or Co-Authored (in print or accepted)

None

1. Books Edited or Co-Edited (in print or accepted)

None

1. Chapters in Books (in print or accepted)

None

1. Monographs (in print or accepted)

None

1. Articles in Journals (in print or accepted)
   1. \***Monson BB**, Sommerfeldt SD, and Gee KL (2007) Improving compactness for active noise control of a small axial cooling fan. *Noise Control Engineering Journal*, 55(4), 397-407.
   2. #+Hunter EJ, **Monson BB** and Montequin D (2010) Relations between the voice and the ear with clinical implications. *Perspectives on Voice and Voice Disorders*, 20, 96-104.
   3. #\***Monson BB**, Lotto AJ, and Ternström S (2011) Detection of high-frequency energy changes in sustained vowels produced by singers. *Journal of the Acoustical Society of America*, 129(4), 2263-2268.
   4. #\***Monson BB**, Hunter EJ, and Story BH (2012) Horizontal directivity of low- and high-frequency energy in speech and singing. *Journal of the Acoustical Society of America*, 132(1), 433-441.
   5. #\***Monson BB**, Lotto AJ, and Story BH (2012) Analysis of high-frequency energy in long-term average spectra (LTAS) of singing, speech, and voiceless fricatives. *Journal of the Acoustical Society of America*, 132(3), 1754-1764.
   6. \***Monson BB**, Han S, and Purves D (2013) Are auditory percepts determined by experience? *PLOS One*, 8(5): e63728. doi: 10.1371/journal.pone.0063728
   7. #\***Monson BB**, Lotto AJ, and Story BH (2014) Detection of high-frequency energy level changes in speech and singing. *Journal of the Acoustical Society of America*, 135(1), 400-406.
   8. \*Morgenstern Y, Rukmini DV, **Monson BB**, and Purves D (2014) Properties of artificial neurons that report lightness based on accumulated experience with luminance. *Frontiers in Computational Neuroscience*. 8:134. doi: 10.3389/fncom.2014.00134
   9. #\***Monson BB**, Hunter EJ, Lotto AJ, and Story BH (2014) The perceptual significance of high-frequency energy in the human voice. *Frontiers in Psychology: Auditory Cognitive Neuroscience*, 5:587. doi: 10.3389/fpsyg.2014.00587
   10. \*Purves D, **Monson BB**, Sundararajan J, and Wojtach W (2014) How biological vision succeeds in the physical world. *Proceedings of the National Academy of Sciences*, 111(13), 4750-4755.
   11. #\***Monson BB**, Lotto AJ, and Story BH (2014) Gender and vocal production mode discrimination using the high frequencies for speech and singing. *Frontiers in Psychology: Auditory Cognitive Neuroscience*, 5:1239. doi: 10.3389/fpsyg.2014.01239
   12. \*^Vitela AD, **Monson BB**, and Lotto AJ (2015) Phoneme categorization relying solely on high-frequency energy. *Journal of the Acoustical Society of America*, 137(1), EL65-EL70.
   13. \***Monson BB**, Anderson PJ, Matthews L, Neil JJ, Kapur K, Cheong J, Doyle LW, Thompson DK, and Inder TE (2016) Examination of the pattern of growth of cerebral tissue volumes from hospital discharge to early childhood in very preterm infants. *JAMA Pediatrics*, 170(8):772-779. doi: 10.1001/jamapediatrics.2016.0781
   14. \*^**Monson BB**, Eaton-Rosen Z, Kapur K, Liebenthal E, Brownell A, Smyser CD, Rogers CE, Inder TE, Warfield SK, and Neil JJ (2018) Differential rates of perinatal maturation of human primary and nonprimary auditory cortex. *eNeuro*, 5(1):e0380-17.2017 1-12. doi: http://dx.doi.org/10.1523/ENEURO.0380-17.2017
   15. \*Matthews LGF, Inder TE, Pascoe L, Kapur K, Lee KJ, **Monson BB**, Doyle LW, Thompson DK, and Anderson PJ (2018) Longitudinal preterm cerebellar volume: perinatal and neurodevelopmental outcome associations. *Cerebellum*, 17(5), 610-627, doi: 10.1007/s12311-018-0946-1.
   16. **\***^**Kocon P and Monson BB** (2018) Horizontal directivity patterns differ between vowels extracted from running speech. *Journal of the Acoustical Society of America*, 144(1), EL7-EL13.
   17. \*^**Monson BB**, Rock J., Schulz A., Hoffman E., and Buss E (2019) Ecological cocktail party listening reveals the utility of extended high-frequency hearing. *Hearing Research*, *381*, 107773.
   18. **\***^**Monson BB, and Caravello J** (2019) The maximum audible low-pass cutoff frequency for speech. Journal of the Acoustical Society of America, 146(1), EL496-EL501.
   19. +**Monson BB,** and Buss E. (2019) Does extended high-frequency hearing matter in real-world listening? *The Hearing Journal*, *72(12)*, 30-32.
   20. \*^**Monson BB**, Rock J., Cull M., and Soloveychik V. (2020) Neonatal intensive care unit incubators reduce language and noise levels more than the womb. *Journal of Perinatology*, *40(4)*, 600-606.
   21. \*+Hunter LL, **Monson BB**, Moore DR, Dhar S, Wright BA, Munro KJ, Zadeh LM, Blankenship CM, Stiepan SM, and Siegel JH (2020) Extended high-frequency hearing and speech perception implications in adults and children. *Hearing Research*, 397, 107922.
   22. \*^Trine A and **Monson BB** (2020) Extended high frequencies provide both spectral and temporal information to improve speech-in-speech recognition. *Trends in Hearing*, 24, https://doi.org/10.1177/2331216520980299
   23. \*^Flaherty M, Libert K, and **Monson BB** (2021) Extended high-frequency hearing and head orientation cues benefit children during speech-in-speech recognition, *Hearing Research*, 406, 108230, <https://doi.org/10.1016/j.heares.2021.108230>
   24. \*^Braza MD, Corbin NE, Buss E, and **Monson BB** (2022) Effect of masker head orientation, listener age, and extended high-frequency sensitivity on speech perception in spatially separated speech, *Ear and Hearing*, 43(1), 90-100, <https://doi.org/10.1097/aud.0000000000001081>
   25. \*+^**Monson BB** and Trine A (in press) Extending the high-frequency bandwidth and predicting speech-in-noise recognition: Building on the work of Pat Stelmachowicz, *Seminars in Hearing*
2. Creative Works

None

1. Patents

None

1. Bulletins, Reports, or Conference Proceedings (in print or accepted)
   1. **Monson BB** and Sommerfeldt SD (2004) Global active control of tonal noise from small axial cooling fans. *INTER-NOISE and NOISE-CON Congress and Conference Proceedings*, September 2004, 9, 327-337.
   2. Blandin R, **Monson BB,** and Brandner M (2020) Influence of speech sound spectrum on the computation of octave band directivity patterns. *Proceedings of Forum Acusticum*, December 2020
2. Abstracts (in print or accepted)

None

1. Book Reviews (in print or accepted)

None

1. Refereed Conference Papers and Presentations

^ Denotes student or mentee presenter

*Podium presentations*

International

1. **Monson BB**, Hopkin JA, and Ence K (2006) The 1-to-6 ratio: Is it real? The 3rd International Physiology and Acoustics of Singing Conference (PAS3), May 10-13, York, England
2. **Monson BB**, Story BH, and Lotto AJ (2010) Perception of high-frequency energy in singing. The 5th International Physiology and Acoustics of Singing Conference (PAS5), Aug 10-13, Stockholm, Sweden
3. **Monson BB**, Warfield SK, Liebenthal E, Inder TE, and Neil JJ (2017) Microstructural development of human primary and nonprimary auditory cortex during the perinatal period. International Conference on Auditory Cortex, Sept 10-15, Banff, Alberta, CA
4. **Monson BB** (2018) Extended high-frequency hearing enables better talker and singer head orientation detection. Acoustical Society of America 176th Meeting, Nov 5-9, Victoria, Canada

National

1. **Monson BB**, Sommerfeldt SD, and Duke C (2004) Active noise control of small axial cooling fans, Acoustical Society of America 147th Meeting, May 24-28, New York, NY
2. **Monson BB** and Sommerfeldt SD (2004) Global active control of tonal noise from small axial cooling fans, ACTIVE 04, September 20-22, Williamsburg, VA
3. **Monson BB** and Sommerfeldt SD (2004) Optimal configurations for active control of axial fans, Acoustical Society of America 148th Meeting, Nov. 15-19, San Diego, CA
4. **Monson BB** and Thomson SL, (2006) Modeling the influence of vocal nodules on vocal fold vibration, Voice Foundation’s 35th Annual Symposium, June 1-4, Philadelphia, PA
5. **Monson BB**, Ternström S, and Lotto AJ (2009) Audibility of high frequency in voice. Voice Foundation’s 38th Annual Symposium, June 3-7, Philadelphia, PA
6. **Monson BB**, Lotto AJ, and Story BH (2011) Perception of high-frequency energy in singing and speech. Acoustical Society of America 161st Meeting, May 23-27, Seattle, WA
7. Lotto AJ, **Monson BB**, and Vitela AD (2012) Exploring the acoustic forbidden zone: The mythical entities above 5.6 kHz. Auditory Cognitive Neuroscience Society Conference, Jan. 4-6, Tucson, AZ
8. **Monson BB**, Story BH, and Lotto AJ (2012) Analysis of high-frequency energy in singing and speech. Acoustical Society of America 163rd Meeting, May 13-18, Hong Kong
9. **Monson BB**, Inder TE, Liebenthal E, Warfield SK, and Neil JJ (2015) Maturation of auditory cortical microstructure in preterm infants. Auditory Development: From Cochlea to Cognition Conference, August 14-15, Seattle, WA
10. **Monson BB**, Liebenthal E, Warfield SK, Inder TE, and Neil JJ (2016) Macro- and microstructural development of human auditory cortex during the perinatal period. Auditory System Gordon Research Conference, July 10-15, Lewiston, ME
11. **Monson BB**, Liebenthal E, Warfield SK, Inder TE, and Neil JJ (2016) Macro- and microstructural development of human auditory cortex during the perinatal period. LDS Life Science Symposium, July 20-22, Lehi, UT
12. **Monson BB**, Warfield SK, Liebenthal E, Inder TE, and Neil JJ (2017) Microstructural development of human primary and nonprimary auditory cortex during the perinatal period. Association for Research in Otolaryngology Midwinter Meeting, Feb 11-15, Baltimore, MD
13. **Monson BB** (2017) The auditory experience of infants born prematurely. Acoustical Society of America 173rd Meeting, June 25-29, Boston, MA
14. **Monson BB** and Buss E (2019) Ecological cocktail party listening reveals the utility of extended high-frequency hearing. Midwest Auditory Research Conference, Springfield, IL, July 11-13.
15. Flaherty MM, Libert K, and **Monson BB** (2020) The role of extended high frequencies in children’s speech-in-speech recognition. Acoustical Society of America 179th Meeting, Acoustics Virtually Everywhere, Dec 7-11.
16. Ishikawa K and **Monson BB** (2020) Contributing spectral regions to subjective intelligibility of dysphonic speech in noise. Acoustical Society of America 179th Meeting, Acoustics Virtually Everywhere, Dec 7-11.
17. **Monson BB**, Braza M, and Buss E (2021) Effect of masker head orientation, listener age, and extended high-frequency sensitivity on speech perception in spatially separated speech. Association for Research in Otolaryngology Midwinter Meeting, Feb 20-24.
18. **Monson BB** (2021) Teaching introductory acoustics using interactive online demonstrations by PHET. Acoustical Society of America 180th Meeting, Acoustics in Focus, June 8-10
19. **Monson BB**, Ambrose S, and Rollo D (2022) Differences between fetal and preterm infant language and auditory environments. Association for Research in Otolaryngology Midwinter Meeting, Feb 5-9
20. **Monson BB** and Moriarty B (2022) Factors influencing the minimum audible change in head orientation of a talker. Association for Research in Otolaryngology Midwinter Meeting, Feb 5-9

*Poster presentations*

1. **Monson BB**, Ternström S, and Lotto AJ (2009) Audibility of high frequency energy in speech and voice. Auditory Cognitive Neuroscience Society Conference, Jan. 9-10, Tucson, AZ
2. **Monson BB**, Vitela AD, Story BH, and Lotto AJ (2011) Perceptually relevant information in energy above 5 kHz for speech and singing. Acoustical Society of America 162nd Meeting, Oct. 31-Nov. 4, San Diego, CA
3. Vitela AD, **Monson BB**, and Lotto AJ (2012) Perception of phonetic information from energy above 5 kHz. 2012 Meeting of the American Auditory Society, March 9, Scottsdale, AZ
4. **Monson BB**, Morgenstern Y, and Purves D (2013) Response properties of sensory neurons artificially evolved to maximize information. COSYNE, Feb 28-Mar 3, Salt Lake City, UT
5. Vitela AD, **Monson BB**, and Lotto AJ (2013) Lexical segmentation of speech from energy above 5 kHz. Acoustical Society of America 166th Meeting, Dec 2-6, San Francisco, CA
6. **Monson BB**, Lotto AJ, and Story BH (2014) Speech spectral intensity discrimination at frequencies above 6 kHz. Acoustical Society of America 168th Meeting, Oct 27-31, Indianapolis, IN
7. **Monson BB**, Anderson PJ, Thompson DK, Doyle LW, and Inder TE (2015) Cortical gray matter growth in very preterm children between term and 7 years is unable to correct their volumetric deficit. Pediatric Academic Societies Annual Meeting, April 25-28, San Diego, CA
8. **Monson BB**, Eaton-Rosen Z, Warfield SK, Liebenthal E, Inder TE, and Neil JJ (2016) Maturation of auditory cortical microstructure is disrupted in preterm infants. Association for Research in Otolaryngology Midwinter Meeting, February 20-24, San Diego, CA
9. **Monson BB** (2018) Phoneme categorization relying solely on frequencies beyond 6 kHz. Association for Research in Otolaryngology Midwinter Meeting, Feb 9-14, Baltimore, MD
10. ^Corbin N, **Monson BB**, and Buss E (2019) Effect of talker orientation on speech perception in spatially separated speech. 46th Annual Scientific and Technology Conference of the American Auditory Society, Feb 28-Mar 2, Scottsdale, AZ
11. **Monson BB** and Cull M (2019) Average daily speech exposure for fetuses. Acoustical Society of America 177th Meeting, Louisville, KY, May 13-17.
12. ^Schulz A, Hoffman E., and **Monson BB** (2019) The effect of musical training on ecological cocktail party listening. Acoustical Society of America 177th Meeting, Louisville, KY, May 13-17.
13. ^Frazier D and **Monson BB** (2019) Talker head orientation discrimination using only auditory cues. Acoustical Society of America 177th Meeting, Louisville, KY, May 13-17.
14. ^Smith HM and **Monson BB** (2019) Typical speech exposure during fetal auditory neurodevelopment. Knowles Hearing Center Symposium, Northwestern University, Evanston, IL, July 25-26.
15. ^Trine A and **Monson BB** (2019) Access to phonetic information at extended high frequencies improves speech-in-speech performance. Knowles Hearing Center Symposium, Northwestern University, Evanston, IL, July 25-26.
16. **Monson BB** and Reidy BD (2020) Average daily speech exposure for fetuses and preterm infants. Association for Research in Otolaryngology Midwinter Meeting, San Jose, CA, Jan 25-29.
17. ^Trine A and **Monson BB** (2020) Extended high frequencies provide both spectral and temporal information improve speech-in-speech listening. Association for Research in Otolaryngology Midwinter Meeting, San Jose, CA, Jan 25-29.
18. Blandin R, **Monson BB,** and Brandner M (2020) Influence of speech sound spectrum on the computation of octave band directivity patterns. Forum Acusticum, Dec 7-11.
19. ^Khudr J and **Monson BB** (2022) Predictors of auditory exposures in the neonatal intensive care unit. American Auditory Society Meeting, Feb 24-26
20. ^Ananthanarayana RM, Trine A, and **Monson BB** (accepted) Extended high-frequency pure-tone thresholds predict speech-in-speech recognition even when extended high-frequency speech cues are absent. Acoustical Society of America 182nd Meeting, May 23-27
21. Other (Specify type)

Lectures/Seminars

*Invited lectures*

National

* + 1. **Monson BB** (2015) *The effect of abnormal early experience on auditory and brain development*. Hearing Research Center Seminar, Boston University, Boston, MA
    2. **Monson BB** (2016) *The effect of abnormal early experience on auditory and brain development*. Neuroscience Seminar, Brigham Young University, Provo, UT

Campus

* + 1. **Monson BB** (2019) *The effect of altered perinatal experience on auditory brain and language development*. Linguistics Seminar Series, University of Illinois at Urbana-Champaign, Champaign, IL
    2. **Monson BB** (2020) *The influence of auditory and language exposures on brain development in the neonatal intensive care unit*. Innovation Grand Rounds, Carle Illinois College of Medicine, University of Illinois at Urbana-Champaign, Champaign, IL
    3. Braun S, Ishikawa K, Mendes C, and **Monson BB** (2020) *Faculty partnerships in research and instruction*. College of Applied Health Sciences Lecture Series, University of Illinois at Urbana-Champaign, Champaign, IL
    4. **Monson BB** (2022) *The effect of preterm birth on auditory and language experience and development*. Developmental Brownbag Seminar, Department of Psychology, University of Illinois at Urbana-Champaign, Champaign, IL

1. **Resident Instruction**
2. Summary of Instruction
   1. Supervision of Graduate Student Research

^ Denotes graduate coauthor on a peer-reviewed publication

Doctoral students

*PhD Student Committee Chair*

M.A., Rohit, 2021-present, Title: TBD (exp. graduation 2026)

Delaram, Vahid, 2022-present, Title: TBD (exp. graduation 2027)

*PhD Student Committee Member*

Staisloff, Hannah, 2019-2021, Qualifying exam and Preliminary exam committees, current graduate student

*AuD Capstone Committee Chair*

^Caravello, Jacob, 2018-2020, “The relationship between extended high-frequency thresholds and audibility of extended high-frequency energy produced in speech,” now practicing audiology in Milwaukee, WI

Arenz, Taylor, 2019-present, “ABRs in 3-month-old infants: Lateral asymmetry and high-frequency data,” current graduate student (exp. graduation 2022)

Rojas, Raquel, 2019-present, “The role of EHF hearing loss and masker head rotation in cocktail party listening,” current graduate student (exp. graduation 2022)

Smith, Hannah, 2019-present, “Language and auditory exposure and their effect on auditory brainstem responses,” current graduate student (exp. graduation 2022)

^Trine, Allison, 2019-present, “Perceptual utility of extended high-frequency hearing,” current graduate student (exp. graduation 2022)

Flores, Melanie, 2019-present, Title TBD, current graduate student (exp. graduation 2023)

Moriarty, Brendan, 2020-present, Title TBD, current graduate student (exp. graduation 2023)

*AuD Capstone Committee Member*

Le, Laci, 2018, “Bilateral stimulation via bimodal fitting or bilateral implantation: A systematic review”

Jeon, Carolyn, 2018-2019, “The effect of tinnitus and hyperacusis on distortion product otoacoustic emissions in individuals with normal hearing”

Wagman, Malorie, 2019-2020, “Effects of electrode montage on the binaural interaction component elicited by level specific chirps”

Master’s students

^Cull, Molly, 2017-2019, research supervisor

Hunt, Elana, 2017-2018, research supervisor

Way, Joanna, 2017-2018, research supervisor

^Rock, Jenna, 2019-2021, research supervisor, current graduate student

Lioznov, Alexandra, 2020, independent study supervisor

Wilkes, Colleen, 2020, independent study supervisor, current graduate student

Heuck, Emily, 2020-2021, research supervisor, current graduate student

* 1. Supervision of Undergraduate Students

^ Denotes undergraduate coauthor on a peer-reviewed publication

Fafara, Anastasia, 2017-2018, research supervisor

Flores, Melanie, 2017-2019, research supervisor

^Godnik, Olivia, 2017-2018, research supervisor

^Hoffman, Elissa, 2017-2018, research supervisor

^Schulz, Anneliese, 2017-2019, research supervisor

^Kocon, Paulina, 2017-2018, research supervisor

Bianco, Natalie, 2018-2019, research supervisor

Katwala, Kamakshi, Summer 2018, research supervisor

Nanduri, Lucky, Summer 2018, research supervisor

^Rock, Jenna, 2018-2019, research supervisor

Ahmed, Eleena, Summer 2019, research supervisor

Sabic, Ana, 2019-2021, research supervisor

Valente, Paige, 2019-2021, research supervisor

Vicencio, Lauren, 2019-present, SPARK research supervisor

Guendica, Milton, 2020-2021, research supervisor

Metchuentseu, Alison, Fall 2021, research supervisor

*James Scholars*

Kocon, Paulina, Fall 2017, Spring 2018

Rock, Jenna, Fall 2018

Abrahamsen, Kasey, Spring 2019

Fleming, Lydia, Spring 2019

Robinson, Sarah, Spring 2019

Yang, Jinwen (Lianna), Spring 2019

1. **Service (Public, Professional/Disciplinary, and University)**
   1. Summary of Service
      1. Public Engagement

2015-present Annual participation in “Hands-On Acoustics” outreach program for elementary, middle, and high school students in locations across the country, sponsored by Acoustical Society of America

2018 Illinois News Bureau Press Release and Daily Mail News Story for study entitled, “Differential rates of perinatal maturation of human primary and nonprimary auditory cortex”

<https://news.illinois.edu/view/6367/600667>

<https://www.dailymail.co.uk/health/article-5271963/Early-birth-damages-soft-brains-causing-language-delays.html>

2019 Press Conference participant and Press Release during 177th Meeting of the Acoustical Society of America for study entitled “Average Daily Speech Exposure for Fetuses”

<https://www.eurekalert.org/pub_releases/2019-05/asoa-hml051019.php>

2019 College of Applied Health Sciences News Feature for study entitled, “Ecological cocktail party listening reveals the utility of extended high-frequency hearing”

<https://ahs.illinois.edu/blog/new-illinois-study-examines-utility-extended-high-frequency-hearing>

2020 Participation in online educational acoustics demonstration video “Acoustics at Home” for outreach to elementary, middle, and high school students, sponsored by Acoustical Society of America

<https://www.youtube.com/watch?v=zUN6CbAq5sE>

Invited lay-language papers

The following invited articles were written in lay-language and distributed publicly.

1. Sommerfeldt SD, **Monson BB**, and Duke C (2004) Quieting Computer Fans: Fighting Sound with Sound. Acoustical Society of America 147th Meeting, New York, NY, <http://acoustics.org/pressroom/httpdocs/147th/Sommerfeldt.htm>
2. **Monson BB**, Vitela AD, Lotto AJ, and Story BH (2011) Perception of high-frequency sounds in singing and speech: Studying singing to learn about speech. Acoustical Society of America 162nd Meeting, San Diego, CA, <http://acoustics.org/pressroom/httpdocs/162nd/Monson_5aSCb3.html>
3. **Monson BB**, Story BH, and Lotto AJ (2012) Scoping the treble sound in singing and speech: What your phone is not telling you. ACOUSTICS 2012 HONG KONG/Acoustical Society of America 163rd Meeting, Hong Kong, <http://acoustics.org/pressroom/httpdocs/163rd/Monson_2aMU12.html>
4. **Monson BB**, Story BH, and Lotto AJ (2014) Hearing voices in the high frequencies: What your cell phone isn’t telling you. Acoustical Society of America 168th Meeting, Indianapolis, IN, <https://acoustics.org/hearing-voices-in-the-high-frequencies-what-your-cell-phone-isnt-telling-you-brian-b-monson/>
5. **Monson BB** (2018) Yanny or Laurel? Acoustic and non-acoustic cues that influence speech perception. Acoustical Society of America 176th Meeting, Victoria, Canada, <https://acoustics.org/3pid2-yanny-or-laurel-acoustic-and-non-acoustic-cues-that-influence-speech-perception-brian-b-monson/>
   * 1. Service to Disciplinary and Professional Societies or Associations

Positions

2004-2006 *Student Council Representative*, Acoustical Society of America

2005 *Founder*, BYU Student Chapter, Acoustical Society of America

2005-2006 *Chair*, BYU Student Chapter Executive Council, Acoustical Society of America

2014 *Organizing Committee*, Future of Research 2014 Symposium, Boston, MA

2014-2016 *Member*, Advocacy Committee, National Postdoc Association

2015-present *Member*, Education in Acoustics Committee, Acoustical Society of America

2019 *Symposium Organizer and Chair*, Midwinter Meeting, Association for Research in Otolaryngology

Ad-hoc Reviewer

Proceedings of the National Academy of Sciences

Brain

Cerebral Cortex

Human Brain Mapping

NeuroImage

Attention, Perception, and Psychophysics

Frontiers in Psychology

Frontiers in Neuroscience

Trends in Hearing

Ear and Hearing

Journal of the Acoustical Society of America

Journal of Speech, Language, and Hearing Research

American Journal of Audiology

Journal of Voice

Brain Sciences

Noise Control Engineering Journal

Affiliations

2000-2004 Institute of Electrical and Electronics Engineers (IEEE)

2002-present Tau Beta Pi

2003-present Acoustical Society of America

2014-present Association for Research in Otolaryngology

2021-present American Auditory Society

* + 1. University/Campus Service

Department

2018-2020 Graduate Admissions Committee, Speech and Hearing Science, UIUC

2018-2019 Awards Committee, Speech and Hearing Science, UIUC

2020-2021 Awards Committee, Speech and Hearing Science, UIUC

2020-2021 Faculty Advisory Committee, Speech and Hearing Science, UIUC

2021-2022 Graduate Admissions Committee, Speech and Hearing Science, UIUC

College

2019-2020 Strategic Planning Committee, Applied Health Science, UIUC

2019-2021 Executive Committee, Applied Health Sciences, UIUC

2020-2022 Alleged Capricious Grading Committee, Applied Health Sciences, UIUC

Campus

2019-2021 Faculty Senator, Speech and Hearing Science, UIUC