

## Malachi H. Henry, M.A., CCC-SLP

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PhD Candidate and Speech-Language Pathologist

James E. West Graduate Fellow

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Department of Speech, Language & Hearing Sciences

Indiana University – Bloomington

### EDUCATION:

#### **Doctor of Philosophy, Speech, Language & Hearing Sciences** **2021 – 2026**

Indiana University, Bloomington, IN

Minor: General Linguistics

Dissertation – *The dynamics of disordered speech: Navigating acoustic and perceptual variability across talker demographics and listener experience*

Advisor: Tessa Bent, PhD

#### **Master of Arts, Speech-Language Pathology** **2018 – 2020**

Ball State University, Muncie, IN

Thesis – *Graduate and Undergraduate Perspectives of the Graduate Admissions Process in Speech-Language Pathology*

Thesis Advisor: Barry T. Wagner, PhD

#### **Bachelor of Science, Speech-Language Pathology** **2014 – 2018**

Ball State University, Muncie, IN

### RESEARCH INTERESTS:

- The acoustics and perception of speech sound errors produced by children.
- Children's response to variation in the speech signal that arises from socioindexical speech features, such as accent, race, and impairment.
- The impact of adverse listening conditions and listener experience on speech perception.

### ACADEMIC APPOINTMENTS:

#### **Indiana University:**

- 2022 (Summer) | Clinical Supervisor, Indiana University Speech-Language Clinic
  - Department of Speech, Language and Hearing Sciences
- 2021 – present | Graduate Research Assistant, Speech Perception Lab
  - Department of Speech, Language and Hearing Sciences

#### **Ball State University:**

- 2018 – 2020 | Graduate Assistant, Augmentative and Alternative Communication Lab
  - Department of Speech Pathology & Audiology
- 2017 – 2018 | Undergraduate Teaching Assistant, Intro to Psychological Science
  - Department of Psychological Science
- 2017 (Spring) | Research Assistant, Social Science Research Center

- Department of Sociology
- 2016 – 2018 | Research Assistant, Augmentative & Alternative Communication Lab
  - Department of Speech Pathology & Audiology

## **AWARDS, HONORS, & GRANTS:**

### **External:**

2026 | ISHA Professional Achievement Award, Indiana Speech-Language-Hearing Association  
 2025 | Distinguished Early Career Professional, American Speech-Language-Hearing Association  
 2024 | James E. West Graduate Fellowship, Acoustical Society of America (\$62,000 total)

### **Internal:**

2025 | Speech, Language & Hearing Sciences Department Research Grant, Indiana University (\$500)  
 2024 | Speech, Language & Hearing Sciences Department Research Grant, Indiana University (\$500)  
 2023 | Speech, Language & Hearing Sciences Department Research Grant, Indiana University (\$1000)  
 2023 | 2022 Fred W. Householder Best Student Paper Award in Linguistics, Indiana University (\$700)  
 2023 | Groups STEM Initiative Summer Research Experience Program Grant, Indiana Univ. (\$1000)  
 2022 | Larry and Marty Humes Student Research Travel Award, Indiana University (\$600)  
 2022 | Indiana University College of Arts and Sciences Travel Award (\$600)  
 2019 | Speech Pathology and Audiology Departmental Travel Award, Ball State University (\$1,500)  
 2018 | Speech Pathology and Audiology Departmental Travel Award, Ball State University (\$1,500)  
 2018 | Keys/Litten/Smith Award for Excellence in Research, Ball State University (\$250)  
 2017 | Speech Pathology and Audiology Departmental Travel Award, Ball State University (\$1,500)

## **RESEARCH COMMUNICATION:**

### **Refereed Journal Articles:**

1. **Henry, M.** & Wade, C. (Under review). State-level efforts addressing the workload crisis in Indiana schools: Roundtables, clinician perceptions, and continued advocacy. *Language, Speech, and Hearing Services in Schools*.
2. **Henry, M.**, Bent, T., & Munson, B. (Under review). Normalization of the acoustic vowel space across development: Validating ratio measurements for children's speech. *Journal of the Acoustical Society of America*.
3. Morrisette, M., Bent, T., **Henry, M.**, & Tsai, T.-P. (Submitted). Generative artificial intelligence solutions to word-level dosage in phonological intervention. *International Journal of Language and Communication Disorders*.
4. Bent, T., **Henry, M.**, Henry, J., & Holt, R. F. (Under revision). Perception of accent distance by children and adults: Identifying acoustic-phonetic parameters using machine learning. *Speech Communication*.

5. Holt, R. F., Bent, T., Lind-Combs, H., & **Henry, M.** (Accepted). Intelligibility of unfamiliar accents in quiet and noise develops into adolescence. *Journal of Speech, Language, and Hearing Research*
6. **Henry, M.**, & Bent, T. (2026). Let's be friends: Peer perceptions of disordered speech in preschool and early school-aged children. *American Journal of Speech-Language Pathology*, 35(1), 127–149. [https://doi.org/10.1044/2025\\_AJSLP-25-00093](https://doi.org/10.1044/2025_AJSLP-25-00093)
7. Tsai, T.-P., Bent, T., & **Henry, M.** (2025). How vocal timbre impacts word identification and listening effort in traffic-shaped noises. *JASA Express Letters*, 5(7), 075204. <https://doi.org/10.1121/10.0037043>
8. **Henry, M.**, Bent, T., & Holt, R. F. (2025). “They sure aren’t from around here”: Children’s perception of accent distance in L1 and L2 varieties of English. *Journal of Child Language*, 52(4), 762–785. <https://doi.org/10.1017/S0305000924000138>
9. Bent, T., **Henry, M.**, Holt, R. F., & Lind-Combs, H. (2024). Relating pronunciation distance metrics to intelligibility across English accents. *Journal of Phonetics*, 107, 101357. <https://doi.org/10.1016/j.wocn.2024.101357>

#### **Contributed Talks:**

1. **Henry, M.**, & Bent, T. (2025). *Moving beyond speech accuracy: A review of functional participation measurements for evidence-based holistic assessment of pediatric speech sound disorders*. [Podium presentation]. Indiana University’s 4th Annual Evidence-Based Practice Conference, Bloomington, IN, USA.
2. **Henry, M.**, & Bent, T. (2025). *Examining peer’s friendship preferences and social judgments of children with SSDs*. [Technical presentation]. American Speech-Language-Hearing Association Annual Convention, Washington, DC, USA.
3. **Henry, M.**, Koehlinger-Wolf, K., & Wade, C. (2025). *State-level efforts addressing the workload crisis in Indiana schools: Roundtables, clinician perceptions, and continued advocacy*. [Technical presentation]. American Speech-Language-Hearing Association Annual Convention, Washington, DC, USA.
4. **Henry, M.**, Dickerson, J., Lind-Combs, H., Bent, T., Holt, R. F., & (2024). *Linguistic complexity and noise influence intelligibility for L1- and L2-accented English*. [Technical presentation]. American Speech-Language-Hearing Association Annual Convention, Seattle, WA, USA.
5. Bent, T., **Henry, M.**, & Holt, R. F. (2024). *Accent Distance Perception in Children and Adults*. [Spoken presentation]. The Psychonomic Society’s 65th Annual Meeting, New York City, New York, USA.
6. **Henry, M.** & Bent, T. (2024). *Exploring Dynamic Changes in Vowel Measures for Children with Speech Sound Disorders*. [Oral presentation]. 29th Mid-Continental Phonetics and Phonology Conference, Champaign, IL, USA.

7. Morrisette, M., **Henry, M.**, Bent, T., & Tsai, T. (2024) *Practical prompting: AI solutions for evidence-based phonological intervention*. [Oral presentation]. Annual Convention of the Indiana Speech-Language-Hearing Association, Indianapolis, IN, USA.
8. **Henry, M.** & Bent, T. (2024). *Examining the effect of disordered speech on social judgments in children*. [Individual paper presentation]. American Association for Applied Linguistics Annual Conference, Houston, TX, USA.
9. **Henry, M.** & Henry, J. (2023) *Becoming a better job seeker: Knowing your worth*. [Oral presentation]. Annual Convention of the Indiana Speech-Language-Hearing Association, Indianapolis, IN, USA.
10. Wagner, B., **Henry, M.**, & Shaffer, L. (2018) *Multiple symbol production abilities: Does linear symbol reconstruction impact performance?* [Platform presentation] AAC Institute Annual Clinical Research Conference, St. Louis, MO, USA.

#### Poster Presentations:

1. **Henry, M.**, Bent, T., Henry, J., & Holt, R. F. (2026). *Identifying acoustic-phonetic predictors of children's accent distance perception: A machine learning approach*. [Poster presentation] 47th Annual International Child Phonology Conference, Madison, WI, USA.
2. Bent, T., Holt R. F., Hale, R., **Henry, M.**, Ingram, A. C., Kilgore, R., Montgomery, B., Reusch, P., Sershen, M., Tsai, T.-P., & Xanders, A. (2026). *Developmental changes in spontaneous descriptions of talkers from speech*. [Poster presentation]. 190th Meeting of the Acoustical Society of America, Philadelphia, PA, USA.
3. **Henry, M.** & Bent, T. (2026). *Comparing human and nonhuman judgments of perceived similarity of gender diverse talkers*. [Poster presentation]. 190th Meeting of the Acoustical Society of America, Philadelphia, PA, USA.
4. **Henry, M.**, Bent, T., & Munson, B. (2026). *Normalization of the vowel space across development: Validating formant ratio measurements for children's speech*. [Poster presentation]. 190th Meeting of the Acoustical Society of America, Philadelphia, PA, USA.
5. Bent, T., Holt, R., Sershen, M., Reusch, P., Hale, R., Ingram, A. C., & **Henry, M.** (2025). *How children spontaneously describe talkers from speech*. [Poster presentation]. Joint Meeting - 189th Meeting of the Acoustical Society of America and the Acoustical Society of Japan, Honolulu, HI, USA.
6. Bent, T., **Henry, M.**, Kilgore, R., Merritt, B., Tsai, TP, & Xanders, A. (2025). *How talker and listener gender identity impact spontaneous speech descriptors*. [Poster presentation]. Joint Meeting - 188th Meeting of the Acoustical Society of America and 25th International Congress on Acoustics, New Orleans, LA, USA.
7. **Henry, M.**, Bent, T., Hemrajani, P., & Obrecht, C. (2025). *Does clinical experience impact listeners' perception of disordered speech?*. [Poster presentation]. Joint Meeting - 188th Meeting of the Acoustical Society of America and 25th International Congress on Acoustics, New Orleans, LA, USA.

8. **Henry, M.**, Bent, T., Holt, R. F., & Lind-Combs, H. (2024). *The contribution of suprasegmental cues to perceived L1 and L2 accent distance*. [Poster presentation]. Joint Meeting - 186th Meeting of the Acoustical Society of America/Acoustics Week in Canada, Ottawa, Ontario, Canada.
9. Lind-Combs, H., Holt, R. F., Bent, T., & **Henry, M.** (2024). *How rhythmic cues influence perception of accent distance across L1 and L2 English speakers*. [Poster presentation]. Joint Meeting - 186th Meeting of the Acoustical Society of America/Acoustics Week in Canada, Ottawa, Ontario, Canada.
10. **Henry, M.**, Branson, S., Kilaras, G., & Bent, T. (2024). *Does sentence type affect the perception of accent distance?* [Platform presentation]. Annual Convention of the Indiana Speech-Language-Hearing Association, Indianapolis, IN, USA.
11. **Henry, M.**, Bent, T., Morrisette, M., & Tsai, T. (2024). *Implementing AI to Promote Evidence-Based Practice in Phonological Disorders Intervention*. [Poster presentation]. Indiana University AI Digital Future Expo, Bloomington, IN, USA.
12. **Henry, M.**, Morrisette, M., & Morris, K. G., (2023). *Solving the problem: A scoping review of problem-based learning in speech-language pathology graduate programs*. [Poster presentation]. American Speech-Language-Hearing Association Annual Convention, Boston, MA, USA.
13. **Henry, M.**, Diekhoff, M., & Lulich, S. M. (2023). *Speech acoustics in preschool-aged children with and without speech sound disorders*. [Poster presentation]. 28th Mid-Continental Phonetics and Phonology Conference, West Lafayette, IN, USA.
14. **Henry, M.**, Robinson, A., Dong, X., Miller, J., Miller-Broomfield, C., Sosa, E., & Nesbitt, M. (2023). Rhoticity in Black Boston: Examining the effects of ethnicity and ethnic orientation. *The Journal of the Acoustical Society of America*, 153(3\_supplement), A368. <https://doi.org/10.1121/10.0019192>
15. **Henry, M.**, Bent, T., & Holt, R. F. (2022). *Children's sensitivity to accent strength of native and nonnative varieties*. [Poster presentation]. 27th Mid-Continental Phonetics and Phonology Conference, St Louis, MO.
16. **Henry, M.**, Bent, T., & Holt, R. F. (2022). Children's perception of accent distance for native and nonnative varieties. *The Journal of the Acoustical Society of America*, 151(4), A276–A276. <https://doi.org/10.1121/10.0011325>
17. **Henry, M.** & Wagner, B. (2019) *Assessing visuospatial & temporal working memory during direct selection & visual-linear scanning with pictographic displays*. [Poster presentation]. American Speech-Language-Hearing Association Annual Convention, Orlando, FL, USA.
18. Wagner, B., **Henry, M.**, & Shaffer, L. (2017) *Sequential production abilities with multiple-symbol utterances: Implications for redesigning speech generating devices (SGDs) for children*. [Poster presentation]. American Speech-Language-Hearing Association Annual Convention, Los Angeles, CA, USA.

## TEACHING & MENTORSHIP:

## **Teaching Experiences at Indiana University:**

### **S566: Clinical Methods and Practices III (Summer 2022)**

- In addition to clinical supervision responsibilities, I prepared weekly lectures and led discussions on a variety of topics, including evidence-based practice, the research-practice gap, best practice trends in pediatrics, and strategies for differential diagnosis.

### **S425: Speech Perception (Fall 2022)**

- Guest lecture focused on children's perception of socio-indexical characteristics from speech, specifically the perception of disordered speech.

### **S209: Powerful Voices: How Who We Are Shapes Our Speech (Spring 2023)**

- Guest lecture on data cleaning and analysis of perceptual data with a focus on programming and visualizations using R.

### **S201: Speech Anatomy and Physiology**

- Two guest lectures focused on the anatomy and physiology of the phonatory system in healthy and clinical populations across the lifespan.

### **S520: Phonological Disorders (Fall 2025)**

- Guest lecture on standardized assessment, language sampling and assessment interpretation.

### **S111/S511: Phonetics for Speech and Hearing Sciences (Fall 2025)**

- Three guest lectures covering the acoustics of consonant speech sounds.

## **Invited Lectures:**

### **COMD 595: Assessment and Diagnosis in Speech-Language Pathology (Fall 2025)**

- Bridgewater State University, Bridgewater, MA.
- Guest lecture focused on pediatric assessment and diagnostics in the school system.

## **Mentorship:**

- 2026 (Summer) | Cohort Co-Coordinator, Summer Undergraduate Research or Internship Experience in Acoustics (SURIEA), Acoustical Society of America
- 2025 - Present | Clinical Fellowship Year Supervisor
  - **Allison Rainey (2025-2026)**
- Fall 2025 | Coach, Convention Coaches Program, American Speech-Language-Hearing Association
- 2023 - 2024 | Mentor, Mentors-4-Us, Department of Speech, Language and Hearing Sciences, Indiana University
  - **Nia Henry**
- 2023 - 2025 | Mentor, Emerging Scholars Research Experience for Undergraduate Women, IU Center of Excellence for Women & Technology, Indiana University
  - **Carina Obrecht (2023 - 2024):** This project resulted in the student winning the Health and Behavioral Science section of the IU Annual Women's Poster Competition

(\$200)

- **Palak Hemrajani (2024 - 2025):** Mentorship supported the student in winning the Annual Research Hackathon (\$150) as well as poster presentations at the IU Annual Women's Poster Competition and the Joint 25th International Congress on Acoustics/188th Meeting of the Acoustical Society of America.
- 2023 (Summer) | Mentor, Summer Research Experience Program, Groups STEM Initiative Mentoring Program, Indiana University
  - **Jeshua Sotelo:** Incoming first-generation Freshman who presented his project at the IU Undergraduate Research Summer 2023 Poster Symposium

### **EDITORIAL:**

**Ad hoc Reviewing:** *Language, Speech, and Hearing Services in Schools; Journal of the Acoustical Society of America; Journal of the Acoustical Society of America – Express Letters; CALICO Journal: The Computer Assisted Language Instruction Consortium; Language and Education*

### **SERVICE:**

#### **National:**

- 2026 - 2028 | Member, Continuing Education Board, American Speech-Language-Hearing Association
- 2025 - Present | Reading Group Leader, Special Interest Group 14: Cultural and Linguistic Diversity, American Speech-Language-Hearing Association
- 2025 - 2026 | Member, Board of Trustees, Fund for the Future of Applied Linguistics
- 2025 - 2026 | Secretary, Graduate Student Council Steering Committee, American Association for Applied Linguistics
- 2025 - 2026 | Chair, Justice, Equity, Diversity, and Inclusion (JEDI) Subcommittee, Graduate Student Council, American Association for Applied Linguistics
- 2024 - 2025 | Subcommittee Member, Justice, Equity, Diversity, and Inclusion (JEDI), Graduate Student Council, American Association for Applied Linguistics
- 2021 - Present | Member, Traumatic Brain Injury Model Systems Consumer Advisory Council

#### **Internal:**

- 2025 - Present | Member, Outreach Committee, Department of Speech, Language and Hearing Sciences, Indiana University
- 2023 - 2025 | Recruitment and Retention Subcommittee Member, Diversity and Inclusion Committee, Department of Speech, Language and Hearing Sciences, Indiana University
- 2022 - 2024 | Member, Colloquium Planning Committee, IU SPHS PhD Organization
- 2022 - 2023 | Treasurer, Indiana University SPHS PhD Organization

### **Professional Development:**

- 2025 - 2026 | Mentee, Mentoring Academic Research Careers Program, American Speech-Language-Hearing Association

- 2024 - 2025 | Mentee, Leadership Mentoring Program, American Speech-Language-Hearing Association
- 2024 | Mentee, Conference Connections, American Association for Applied Linguistics
- 2022, 2023 | Mentee, Students Meet Members for Lunch, Acoustical Society of America
- 2022 | Attendee, ASA School: *Living in the Acoustic Environment*, Acoustical Society of America

**MEMBERSHIPS, LICENSES, & CERTIFICATIONS:**

- Licensee, Speech-Language Pathology & Audiology Board of Indiana, 2021 – Present
- Member CCC-SLP, American Speech-Language-Hearing Association, 2021 – Present \*\*
- Member, Indiana Speech-Language-Hearing Association, 2021 – Present
- Student Member, Acoustical Society of America, 2021 – Present \*\*
- Student Member, American Association for Applied Linguistics, 2023 – Present
- Student Member, Association for Laboratory Phonology, 2023 – Present
- Full Member, Sigma Xi, the Scientific Research Honor Society, 2025 – Present

\*\* principal organizations

**TECHNICAL PROFICIENCIES:**

**Programming Languages:**

- ⌘ R
- ⌘ Python
- ⌘ MATLAB
- ⌘ Java/JavaScript
- ⌘ Praat

**Statistical Analysis Tools:**

- ⌘ RStudio
- ⌘ Python
- ⌘ MATLAB

**Experiment Design Tools:**

- ⌘ jsPsych
- ⌘ PsychoPy
- ⌘ MATLAB