

EXPERIENCE AND TRAINING

Academic Preparation

- Ph.D. Communication Sciences and Disorders. Northwestern University, 2010
Dissertation: Late Maturation of Naïve Performance and Perceptual Learning on Basic Auditory Tasks; Cognitive Science Specialization
Advisor: Beverly Wright, Ph.D.
- M.A. Learning Disabilities, Northwestern University, 2006
- B.S. Communication Sciences and Disorders, Northwestern University, 2002
Summa cum laude

Professional Experience

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| Assistant Professor, Speech Pathology and Audiology,
School of Health Sciences, Kent State University | 2013-present |
| Voluntary Adjunct Assistant Professor, Dept. of Anatomy
and Neurobiology, Hearing Science Group, Northeast
Ohio Medical University | 2013-present |
| Postdoctoral Fellow, Dept. of Psychology and Centre for
Neuroscience Studies, Queen's University
Advisor: Ingrid Johnsrude, Ph.D. | 2010-2013 |
| Private tutor for students with Learning Disabilities | 2006-2008 |
| Diagnostic Clinician, Northwestern University Adult
Learning Clinic | 2006 |

SCHOLARSHIP

Publications in Peer Reviewed Journals

Starred () items were published after August 18, 2013 (KSU start date)*
Article marked with (†) published in August 2013, during transition to KSU

1. *[Huyck, J.J. and Rosen, M.J. \(2018\)](#). Development of Perception and Perceptual Learning for Low- and High-Pass Filtered Speech. *Journal of the Acoustical Society of America*, 144(2), 667-677. 2017 Impact factor: 1.605.
2. *[Huyck, J.J. \(2018\)](#). Comprehension of degraded speech matures during adolescence. *Journal of Speech, Language, and Hearing Research*, 61, 1012-1022. 2017 Impact factor: 1.906.

3. *[Huyck, J.J., Smith, R., Hawkins, S. and Johnsrude, I.S. \(2017\)](#). Generalization of perceptual learning of degraded speech across accents. *Journal of Speech, Language, and Hearing Research*, 60, 3334-3341. 2017 Impact factor: 1.906.
4. *[Huyck, J.J. and Wright, B.A. \(2017\)](#). Transient sex differences during adolescence on auditory perceptual tasks. *Developmental Science*, e12574. 2016 Impact Factor: 4.604.
5. *[Wayne, R.V., Hamilton, C., Huyck, J.J., and Johnsrude, I.S. \(2016\)](#). Working Memory Training and Speech in Noise Comprehension in Older Adults. *Frontiers in Aging Neuroscience*. 2016 Impact Factor: 4.504.
6. †[Huyck, J.J. and Wright, B.A. \(2013\)](#). Learning, worsening, and generalization in response to perceptual training during adolescence. *Journal of the Acoustical Society of America*, 134, 1172-1182. 2013 Impact Factor: 1.555.
7. [Huyck, J.J. and Johnsrude, I.S. \(2012\)](#). Rapid perceptual learning of noise-vocoded speech requires attention. *Journal of the Acoustical Society of America*, 131, EL236-EL242. 2012 Impact Factor: 1.646.
8. [Huyck, J.J. and Wright, B.A. \(2010\)](#). Late maturation of perceptual learning. *Developmental Science*, 14, 614-621. 2010 Impact Factor: 3.530.

Peer-reviewed Editorial

1. *[Adler, H.J., Anbuhl, K.L., Atcherson, S.R., Barlow, N., Brennan, M.A., Brigande, J.V., Buran, B.N., Fraenzer, J.-T., Gale, J.E., Gallun, F.J., Gluck, S.D., Goldsworthy, R.L., Heng, J., Hight, A.E., Huyck, J.J., Jacobson, B.D., Karasawa, T., Kovačić, D., Lim, S.R., Malone, A.K., Nolan, L.S., Pisano, D.V., Rao, V.R.M., Raphael, R.M., Ratnanather, J.T., Reiss, L.A.J., Ruffin, C.V., Schwalje, A.T., Sinan, M., Stahn, P., Steyger, P.S., Tang, S.J., Tejani, V.D., Wong, V. \(2017\)](#). Community network for deaf scientists (Letter to the Editor). *Science* 356:386-387. 23016 Impact Factor: 37.205; H Index: 978.

Manuscripts in Review/Revision

Fissel, S., **Huyck, J.J.**, and Roche, J. An Eye-Blinking Paradigm to Index Attentional Demand: A Proof of Principle Study. In Revision.

Manuscripts in Preparation

Huyck, J.J. and Johnsrude, I.S. (in prep). Comprehension of degraded speech becomes less effortful but not more automatic with training.

Huyck, J.J. and Wright, B.A. (in prep). Perceptual learning in reading disabled adults.

Huyck, J.J., Raynor, G.K., Heavenrich, M. and Johnsrude, I.S. (in prep). Effects of spatial- and task- attention switches on auditory perceptual organization.

Oral Presentations: National and International Conferences

Starred () items were presented after August 18, 2013 (KSU start date)*

1. ***Huyck, J.J.** (2015). Neuropsychological correlates of naïve comprehension and rapid learning of noise-vocoded speech during adolescence and adulthood. Presented at “Auditory Development: From Cochlea to Cognition”.
2. *Wright, B.A., Marrone, N., Sabin, A.T., and **Huyck, J.J.** (2013). Auditory perceptual learning. (A). Presented at the 5th International and Interdisciplinary Research Conference on Aging and Speech Communication. (Invited Presentation by B.A. Wright).
3. Wright, B.A., **Huyck, J.J.**, and Aliyeva, C. (2011). A perceptual-learning deficit in adults with reading disorders interpreted as evidence of a developmental delay. *Journal of the Acoustical Society of America*, 129, 2413. (A). Presented at the 161st Meeting of the Acoustical Society of America. (Invited podium presentation by B.A. Wright). **Selected for press release.**
4. **Huyck, J.J.** and Wright, B.A. (2011). The time course of maturation on auditory tasks can differ between the average and consistency of performance and also between the sexes. *Journal of the Acoustical Society of America*, 129, 2414. (A). Presented at the 161st Meeting of the Acoustical Society of America.
5. **Huyck, J.J.** and Wright, B.A. (2008). Development of temporal-interval discrimination learning during adolescence. *Abstracts of the Proceedings of the 31st Annual Mid-Winter Meeting of the Association for Research in Otolaryngology*. (A).
6. **Huyck, J.J.** and Wright, B.A. (2007). Development of temporal interval discrimination during adolescence. *Journal of the Acoustical Society of America*, 121, 3133. (A). Presented at the 153rd Meeting of the Acoustical Society of America.
7. **Huyck, J.J.** and Wright, B.A. (2006). Different developmental patterns for average performance and performance consistency on basic auditory tasks during adolescence. *Journal of the Acoustical Society of America*, 119, 3331. (A). Presented at the 151st Meeting of the Acoustical Society of America.

Poster Presentations: National and International Conferences

Starred () items were presented after August 18, 2013 (KSU start date)*

Items marked with (§) are presentations from students I supervised.

1. *§Gay, J.D., **Huyck, J.J.**, Rosen, M.J. (2017) Prolonged Development of Temporal Integration in Auditory Cortex (Presented at the 6th International Conference on Auditory Cortex, Banff, Alberta).
2. ***Huyck, J.J.** and Rosen, M.J. (2017) Development of Perception and Perceptual Learning for Low- and High-Pass Filtered Speech. *Abstracts of the Proceedings of the 40th Annual Mid-Winter Meeting of the Association for Research in Otolaryngology*. (A).

3. *Wright, B.A., **Huyck, J.J.**, and Marrone, N.M. (2016). Late maturation of the response to perceptual training on a non-native phonetic categorization task. *Abstracts of the Proceedings of the 39th Annual Mid-Winter Meeting of the Association for Research in Otolaryngology*. (A).
4. ***Huyck, J.J.** (2015). Neuropsychological correlates of naïve comprehension and rapid learning of noise-vocoded speech during adolescence and adulthood. Presented at “Auditory Development: From Cochlea to Cognition”.
5. *Wright, B.A., **Huyck, J.J.**, and Marrone, N.M. (2015). Late maturation of the response to perceptual training on a non-native phonetic categorization task. Presented at “Auditory Development: From Cochlea to Cognition”.
6. ***Huyck, J.J.** (2015). Perception of noise-vocoded speech matures during adolescence. *Abstracts of the Proceedings of the 38th Annual Mid-Winter Meeting of the Association for Research in Otolaryngology*. (A).
7. *Wayne, R., Hamilton, C., **Huyck, J.J.** and Johnsrude, I.J. (2015). Does working memory training improve speech-in-noise performance in older adults? *Abstracts of the Proceedings of the 38th Annual Mid-Winter Meeting of the Association for Research in Otolaryngology*. (A).
8. ***Huyck, J.J.** and Johnsrude, I.J. (2014). Comprehension of degraded speech becomes less effortful but not more automatic with training. *Abstracts of the Proceedings of the 37th Annual Mid-Winter Meeting of the Association for Research in Otolaryngology*. (A).
9. Raynor, G.K., **Huyck, J.J.**, Johnsrude, I.S. (2013). Delayed recovery of auditory stream segregation: Cognitive and acoustic disruptions and additive. *Abstracts of the Proceedings of the 36th Annual Mid-Winter Meeting of the Association for Research in Otolaryngology*. (A).
10. **Huyck, J.J.** and Johnsrude, I.J. (2012). Long-term retention after perceptual learning of noise-vocoded speech. (A). Presented at the Annual Meeting of the Canadian Society for Brain, Behaviour, and Cognitive Science.
11. **Huyck, J.J.**, Raynor, G.K., Heavenrich, M.A. and Johnsrude, I.J. (2012). Effects of spatial- and task-attention switches on auditory perceptual organization. (A). Presented at the Annual Meeting of the Canadian Society for Brain, Behaviour, and Cognitive Science. (Poster).
12. **Huyck, J.J.**, Smith, R. and Johnsrude, I.S. (2012). Does perceptual learning of degraded speech generalize to a novel voice and accent? *Abstracts of the Proceedings of the 35th Annual Mid-Winter Meeting of the Association for Research in Otolaryngology*. (A).
13. **Huyck, J.J.** and Johnsrude, I.S. (2011). Rapid perceptual learning of noise-vocoded speech requires attention. (A). Presented at the First International Conference on Cognitive Hearing Science for Communication.

14. **Huyck, J.J.** and Wright, B.A. (2010). Transient sex differences during development on two auditory tasks attributable to earlier maturation in males. *Journal of the Acoustical Society of America*, 127, 1988. (A). Presented at the 159th Meeting of the Acoustical Society of America. **Selected for press release.**
15. **Huyck, J.J.** and Wright, B.A. (2009). Development of learning ability on tone detection in backward masking during adolescence. *Abstracts of the Proceedings of the 32nd Annual Mid-Winter Meeting of the Association for Research in Otolaryngology*. (A).
16. **Huyck, J.L.** and Wright, B.A. (2004). Different learning patterns for tone detection in three, temporally distinct, simultaneous masking conditions. *Journal of the Acoustical Society of America*, 115, 2387. (A). Presented at the 147th Meeting of the Acoustical Society of America.

Poster Presentations: Regional Conferences

Starred () items were presented after August 18, 2013 (KSU start date)*

1. ***Huyck, J.J.** (2017). Transient Sex Differences During Adolescence on Auditory Perceptual Tasks. *Kent State Neuroscience Conference*.

GRANTS/FUNDING

Funded Applications/Awards

Starred () items were awarded after August 18, 2013 (KSU start date)*

Bolded items indicate **extramural** support

1. * Program/Award: [NEOMED Summer Research Fellowship Program](#)
 Title: *The Role of Attention in the Development of Auditory Processing during Adolescence*
 Agency: NEOMED Office of Research and Sponsored Programs/Department of Anatomy and Neurobiology
 Role: Faculty Sponsor
 Funds requested: \$3,000 fellowship for medical student
 Status: Funded May 2018-August 2018
2. *Program/Award: [Education, Health, and Human Services Pre-Tenure Seed Award](#)
 Title: *The Role of Attention in the Development of Auditory Processing during Adolescence*
 Agency: Kent State University; College of Education, Health and Human Services Research Advisory Committee
 Role: Principal Investigator
 Funds requested: \$5,000
 Status: Funded March 2018-February 2020

3. *Program/Award: [Pre-Tenure Faculty Research Development Award](#)
Agency: Kent State University; College of Education, Health and Human Services
Research Council
Role: Principal Investigator
Funds requested: \$2,000 travel funds
Status: Funded May 2017-June 2018
4. *Program/Award: [Kent State Post-Doctoral Funding Competition](#)
Agency: Research and Sponsored Programs, KSU with matching funds from
Research and Sponsored Programs, NEOMED & Hearing Research Group at
NEOMED
Role: Co-Investigator (with Merri Rosen, Ph.D., NEOMED)
Funds requested: \$96,000 to hire a post-doctoral fellow
Status: Funded, but did not result in a hire
5. *Program/Award: [Conference Travel Funding](#)
**Agency: Conference Committee, Auditory Development: From Cochlea to
Cognition**
Role: Presenting Author
Funds requested: \$900
Status: Funded July 2015
6. *Program/Award: Professional Conference Travel Support
Agency: Kent State University Research Council
Role: Symposium Organizer, Presenting Author
Funds requested: \$500
Status: Funded November 2016
7. *Program/Award: [Kent State Summer Research Appointment](#)
Title: Perceptual Learning of Degraded Speech during Adolescence
Agency: Kent State University Research Council
Role: Principal Investigator
Funds requested: \$6,500 summer salary
Status: Funded June 2014-July 2014
8. **Program/Award: F.V. Hunt Post-Doctoral Fellowship in Acoustics**
Agency: Acoustical Society of America
**Title: The cognitive architecture of speech understanding and perceptual
learning of degraded speech**
Role: Principal Investigator, Post-Doctoral Fellow
Funds: \$50,000 stipend + \$5,000 for research
Status: Funded January 2012 – December 2012

9. Program/Award: Northwestern University Dissertation Year Fellowship
Title: Auditory perceptual development during adolescence
Agency: Northwestern University Graduate School
Role: Principle Investigator Pre-Doctoral Fellow
Funds requested: \$17,000 fellowship + tuition
Status: Funded September 2008-August 2009

10. Program/Award: F31 Ruth L. Kirschstein National Research Service Award
Title: Auditory perceptual development during adolescence
Agency: National Institute on Deafness and Other Communication Disorders
Role: Principal Investigator, Pre-Doctoral Fellow
Funds requested: \$70,566 total for three years
Status: Funded \$60,566 total, April 2006-March 2008 (2 years)

11. Program/Award: Northwestern University Ph.D. Student Fellowship
Agency: Northwestern University Graduate School
Role: Student
Funds requested: \$17,000 fellowship + tuition
Status: Funded September 2002-August 2003

Recipient of several undergraduate scholarships/awards.

Submitted Applications/Awards

Starred () items were submitted after August 18, 2013 (KSU start date)*

*Summer Undergraduate Research Experience
Kent State University Office of Undergraduate Research
Role: Faculty Sponsor; Student: Cheyanne Allan
Funds requested: \$2,800 student stipend + housing, \$400 for research
Status: Not funded.

***Prolonged development of temporal processing in auditory cortex**
F31 Ruth L. Kirschstein National Research Service Award
Agency: National Institute on Deafness and Other
Role: Faculty Co-Sponsor with Merri J. Rosen, Ph.D.; Student: Jen Gay
Funds requested: \$36,015.24
Status: Not funded.

TEACHING ACTIVITIES

Kent State University

Courses (2-2 teaching load)

[SPA 33101 Hearing Science](#)

[SPA 70702 Anatomy and Physiology of the Peripheral Auditory and Vestibular System](#)

SPA 70706 Anatomy and Physiology Underlying Neuro-Otology
SPA 70707 Psychoacoustics

Additional Teaching Beyond 2-2 Teaching Load

SPA 70710 Industry and Community Noise (Summer 2018)
BMS 60751/70751 Current Research in Auditory Neurobiology (Contributing instructor)
SPA 84098 Graduate Research (Fall 2017)
SPA 44096 Individual Study: Speech/Path (Spring 2015, Spring 2018)

Queen's University

PSYC 100 Principles of Psychology—Guest lecturer (January 2013)
PSYC 100 Principles of Psychology—Developer of online learning modules (2011)

Northwestern University

CSD 487 Development and Disorders of Reading—Directed Teaching (apprenticeship)
Primary/Supervising instructor: Kit Harper, M.A.

STUDENT ADVISING

Ph.D. Dissertation — Committee Member

1. Jen Gay (current student) – Biomedical Sciences. Prolonged development of temporal processing in auditory cortex.
2. Waseem Al Matar (current student)—Audiology.

Master Thesis — Committee Member

1. Christine Suh (2018)—Speech Pathology. Cultural miscommunication in L1 versus L2: How do listeners respond?
2. Ashley Ferguson (current student)—Speech Pathology. Social perceptions of speech dysfluencies.

Academic Advising: ~10 Au.D. Students and ~20 undergraduate students per year

SERVICE

University/College/School Service, Kent State University

EHHS Faculty Advisory Committee	2017-present
EHHS Research Advisory Committee	2015-2018
Reviewer, Research and Creative Activity Appointment Proposals	2015, 2017
Judge, Undergraduate Research Symposium	2015-2018
Judge, Graduate Research Symposium	2014-2017
Judge, Summer Undergraduate Research Experience Symposium	2017
Judge, NEOMED Summer Research Fellowship Symposium	2018

Program of Speech Pathology & Audiology, Kent State University

Helped to re-establish relationship between KSU Audiology and the Hearing Science Group at NEOMED	2013-present
Member, Bulletin Board Committee	2016-present
Member, Undergraduate Curriculum Committee	2015-present
Member, Ph.D. Committee	2015-present
Member, Speech-Language Pathology Faculty Search Committee	2013-2014 2016-2017
Member, Audiology Faculty Search Committee	2016-2017
Presenter, Prospective and Admitted Student Events	2014-2016
University of Akron Audiology Faculty Search Committee Program representative as part of the Northeast Ohio Au.D. Consortium (NOAC)	2015-2017

Professional Service

Member, HI-ARO Peer mentoring group for scientists with hearing impairment. Published editorial in <i>Science</i> in 2017.	2009-present
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Symposium Co-Organizer and Co-Chair (with Merri Rosen, Ph.D., NEOMED) Title: Neural underpinning of auditory perception: Insights from development Association for Research in Otolaryngology (<i>Competitive application</i>)	2015-2016
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Ad hoc Reviewer (~5 per year)
Brain & Behavior, Child Development, Cognitive Development, Developmental Psychology, Developmental Science, Ear and Hearing, Experimental Brain Research, Frontiers in Neuroscience, International Journal of Audiology, Journal of the Acoustical Society of America, Journal of Experimental Psychology: Human Perception and Performance, Neuropsychologia, and Trends in Hearing.

Professional Memberships

Association for Research in Otolaryngology
Acoustical Society of America

Community Service: Cantor, St. Michael the Archangel Catholic Church, Canton, OH