ANQI HU

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EDUCATION

PhD Univesity of Delaware, Linguistics and Cognitive Science   May 2024
Advisor: Zhenghan Qi

MA University of Delaware, Linguistics and Cognitive Science   May 2021

BA University of Illinois at Urbana-Champaign, Linguistics   May 2018
Graduated Summa Cum Laude
Queen Mary University of London (exchange student)
Minored in Speech and Hearing Sciences,
Teaching English as a Second Language

CURRENT RESEARCH PROJECTS

Implicit Learning and Language Development

Dissertation Project: The Interaction Between the Attention and the Language System During Linguistic Statistical Learning Across Typical and Atypical Language Development
- Determine the relationship between concurrent language skills and the attention facilitation effect in linguistic SL among autistic children
- Determine the relationship between reading skill improvement and the attention facilitation effect in linguistic SL among children with reading difficulties
- Decipher the interaction between attention (dis)engagement and the brain's sensitivity to linguistic patterns in typical language development

Project 2: Statistical Learning and Language Development in Autistic and Neurotypical Children
- Identified behavioral indicators of language impairment in autistic children by analyzing statistical learning in multiple domains and modalities (published paper)
- Uncovered the neural bases of statistical learning in neurotypical adults and children using functional magnetic resonance imaging (fMRI) techniques (poster)

Project 3: Speech Learning through Implicit Imitation in School-aged Autistic Children
- Investigated pitch imitation and prosodic variances in autistic children by comparing pitch entrainment to model talkers in sentence repetition tasks (published proceeding)
- Developed and launched web-based audio recording software for at-home speech data collection

Social Learning and Vocabulary Acquisition

Project 4: Incidental Word Learning in Social Contexts in Autistic Children
- Compared word learning and retention from storylistening in a direct-addressed versus an overhearing social contexts in school-aged autistic children ([poster](#))
- Executed a 3-year production process for naturalistic story stimuli, encompassing script development, filming, editing video and audio materials
- Tailored online experimental platform to capture eye tracking data

Project 5: Quality of Web-based Eye Tracking Experiments in Children
- Partnered with various labs across institutes to analyze web-based eye tracking data, assessing its quality in child developmental research ([poster](#))
- Engineered a Python script for eyegaze coding, enhancing efficiency by 50%

LABORATORY EXPERIENCE

Language Acquisition and Brain Lab, *UDEL & Northeastern University* 2018 - Present
Graduate Student Researcher, Advisor: Zhenghan Qi
- Directed training in transcription, eye-tracking coding, and experiment adminstration
- Engineered gaming platforms and audio recording tools for online research
- Streamlined documentation and collaborated with cross-institute Review Boards

Language Acquisition Lab, *UIUC*   2017 - 2018
Undergraduate Research Assistant, Advisor: Cynthia Fisher
- Collected and coded eye tracking data in word learning studies with toddlers

Electrophysiology and Language Processing Lab, *UIUC*   2017 - 2018
Undergraduate Research Assistant, Advisor: Darren Tanner
- Administered event-related potentials (ERP), eye-tracking, and speech production studies on sentence processing in adult second language learners

Second Language Acquisition and Bilingualism Lab, *UIUC*   2016 - 2018
Undergraduate Research Assistant, Advisor: Tania Ionin
- Constructed Mandarin stimuli and led studies on object-substance recognition related to classifier use in Korean and Chinese speakers.

PUBLICATIONS

Journal Publications

Hu, A., Kozloff, V., Owen Van Horne, A., Chugani, D., & Qi, Z. (2023). [Dissociation Between Linguistic and Nonlinguistic Statistical Learning in Children with Autism](#).

Journal of Autism and Developmental Disorders, 1-16. DOI: 10.1007/s10803-023-05902-1

Schneider J.M., Hu A., Legault J., & Qi Z. (2020). [Measuring statistical learning across modalities and domains in school-aged children via an online platform and neuroimaging techniques.](#) *Journal of Visualized Experiments. e61474.* DOI: 10.3791/61474. [[Video Protocol](#)]

Schneider J.M., Weng Y-L., Hu A., & Qi Z. (2022). [Linking the neural basis of distributional statistical learning with transitional statistical learning: The paradox of attention.](#) *Neuropsychologia.* 172: 108284. DOI: 10.1016/j.neuropsychologia.2022.108284

Zinszer, B. D., Hannon, J., Kouadio, É., Akpé, H., Tanoh, F., Hu, A., Qi, Z., & Jasińska, K. (2023). [Does non-linguistic segmentation still predict literacy in an L2 education? Statistical learning in Ivorian primary schools.](#) *Language Learning*. DOI: 10.1111/lang.12603. [In Press [Preprint](#)]

Journal Papers Accepted

Zinszer, B. D., Hannon, J., Hu, A., Kouadio, A. E., Akpé, H., Tanoh, F., Wang, M., Qi, Z., & Jasińska, K. (2023). Statistical learning and children's emergent literacy in rural Côte d'Ivoire. In-Principle Acceptance at *Developmental Science*. https://osf.io/preprints/africarxiv/q8k5w/

Conference Proceedings

(Peer-Reviewed)

Hu A., Qi Z., & Franich K. (2023) [Accommodation to vocal pitch in children with autism](#). In: Radek Skarnitzl & Jan Volín (Eds.), *Proceedings of the 20th International Congress of Phonetic Sciences.* 3912–3916. Guarant International.

CONFERENCE PRESENTATIONS AND POSTERS

Oral Presentations

Hu, A., Qi, Z., & Franich, K. (2023) [Accommodation to Vocal Pitch in Children with Autism](#). *International Congress of Phonetic Sciences*, Prague, Czech Republic.

Hu, A., & Qi, Z. (June 2023). "Selective Attention Facilitates Linguistic Statistical Learning in Autistic Children". Talk at *Annual Symposium on Research in Child Language Disorders (SRCLD)*, Madison, WI.

Hu, A., Trice, K., Weng, YL., & Qi, Z. (March 2023) "The Neurobiology of Auditory Statistical Learning is More Domain-Specific Early in Life". Talk at *Cognitive Neuroscience Society Annual Meeting (CNS)*, San Francisco, CA.

Hu, A., & Qi, Z. (March 2023). "Social Learning in School-Aged Children: The Effect of Social Contexts on Word Learning and Retention". Talk in Paper Symposium: "Observing, Conforming, and Internalizing: How Does Social Learning Occur Across Different Contexts and Cultures?" at *Society for Research in Child Development (SRCD)*, Salt Lake City, UT.

Hu, A., Kozloff, V., & Qi, Z. (March 2023) "Dissociation Between Linguistic and Nonlinguistic Statistical Learning in Children with Autism". Talk at *Meeting On Language in Autism (MoLA)*, Durham, NC.

Hu, A., Trice, K., Weng, YL., & Qi, Z. (November 2022). "Greater plasticity in the language network in children than adults during statistical learning". Talk at *The 47th Boston University Conference on Language Development (BUCLD)*. November 3-6, Boston University.

Hu, A., & Qi, Z. (June 2022) "Dissociated learning processes in the development of statistical learning". Talk at *Interdisciplinary Advances in Statistical Learning*. San Sebastian, Spain.

Qi, Z., Hu, A., Legault, J., Weng, YL., Schneider, J., Kozloff, V., & Robbins, P. (July 2021). "Multimodal investigation of neural correlates of auditory statistical learning in children with ASD". Talk at *The International Association for the Study of Child Language (IASCL)*. Virtual.

Ionin, T., Choi, S., Hu, A., & Liu, Q. (September 2018) "Second language processing of definite articles in anaphoric and bridging contexts". Talk at *The 8th Meeting of Generative Approaches to Language Acquisition – North America (GALANA-8)*. September 28-30, Indiana University.

Posters

Hu A., Qi Z., Redmond S., & Franich K. (June 2023). "[Accommodation to Vocal Pitch in Children with Autism](#)". Poster at *Annual Symposium on Research in Child Language Disorders (SRCLD)*, Madison, WI.

Hu A. & Qi Z. (March 2023). "[Word learning and retention from overhearing as a resilience factor for vocabulary acquisition in autistic children](#)". Poster at *Meeting On Language in Autism (MoLA)*, Durham, NC.

Hu, A., Trice, K., Weng, YL., & Qi, Z. (October 2022). "[Greater plasticity in the language network in children than adults during statistical learning](#)". Poster at *Society for Neurobiology of Language (SNL)*, Philadelphia, USA.

Hu A., Kozloff, V., Owen Van Horne, A., & Qi, Z. (June 2022). "[Disassociation between linguistic and nonlinguistic statistical learning in children with autism](#)". Poster at *International Conference on Interdisc,iplinary Advances in Statistical Learning*, San Sebastian, Spain.

Hu, A., Kozloff, V., & Qi, Z. (April 2021) "[Relationship between linguistic statistical learning and grammar development in children with autism spectrum disorder](#)". Poster at *Society for Research in Child Development (SRCD)*. Virtual.

Hu, A., Kozloff, V., & Qi, Z. (November 2019) "[Multimodal Statistical Learning in Children with Autism Spectrum Disorder](#)". Poster at *The 44th Boston University Linguistics Conference on Language Development (BUCLD)*. November 7-10, Boston University.

Ovans Z., Ayala A., Asmah R., Hu A., Montoute M., Van Horne A., Qi Z., Morini G., & Huang Y.T. (2023). [The feasibility of online (virtual-world) eye-tracking with young children.](#) *Annual Human Sentence Processing Conference*, Pittsburgh, PA.

Lei, Y., Hu, A., Yan X., & Shih, C. (March 2019). "A Corpus-driven, Curriculum-based Approach to Assessing Less Commonly Taught Language in US Universities". Poster at *American Association for Applied Linguistics (AAAL)*. March 9-12, Atlanta, GA.

HONORS AND AWARDS

Unidel Distinguished Graduate Scholar Competitive Fellowship   2018 - 2024
Annual stipend of $34,000, complemented by $3,000 for research expenses

Society for Language Development Student Award   2022
One of two winners for the year, awarded SLD membership and $150

Gorilla Experiment Builder Grant ([Spotlight Interview](#))   2020
One hundred experiment pariticpant tokens

College of Arts and Sciences Graduate Student Travel Awards   2019
Granted $1,395 for training in hyperscanning studies at the State Key Laboratory of Cognitive Neuroscience, Beijing Normal University

Outstanding Undergraduate Student in Linguistics   2018

Dean's List   2014 - 2018

PROFESSIONAL TRAINING

ADOS-2 Clinical Workshop
Washington, DC, July 11-12, 2019

Training on Neural Synchronization and Hyperscanning Techniques
State Key Laboratory of Cognitive Neuroscience and Learning, Beijing Normal University, China, June 2019

PROFESSIONAL SERVICE

Graduate Student Colloquium Committee, *UDEL*   2018 – 2022
- Organized monthly colloquiums, hosting scholars from leading universities for two-day departmental visits
- Spearheaded student conferences on linguistics and cognitive science, reviewing abstract submissions from top institutions

Experimental Group Meeting Committee, *UDEL*   2018 –2020
- Coordinated weekly intra-departmental student meetings focused on experimental research
- Facilitated journal clubs and programming workshops

Division of General Studies Leaders, *UIUC*   2016 –2018
- Acted as an advisory board member to the DGS Director, offering monthly feedback and recommendations for the College of General Studies

LANGUAGES

English: Native-like
Cantonese/ Mandarin: Native Language
Korean: Fluent Listener and Speaker
Japanese: Proficient Listener

COMPUTER SKILLS

Programming: R (advanced), Git (advanced), Java Script (intermediate), Python (intermediate), Shell (intermediate), HTML (intermediate), CSS (intermediate), PHP (novice), Matlab (novice)
Platforms and Frameworks: Gorilla Experiment Builder, Bluehost, Qualtrics, Github, jsPsych, Node.js,
Software: Docker, Adobe Premiere Pro, Praat, Audition, Microsoft Office