

YAO DU



University of California, Irvine
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RESEARCH INTERESTS

My research lies at the intersection of using interaction design for children with disabilities, service design for health professionals, and game design for therapy activities via mobile and voice interfaces. Using both qualitative, quantitative, and mixed method techniques, my work aims to transform clinical knowledge in speech and language pathology to inform accessible and inclusive design for educational, assistive, and consumer health technology.

SKILLS & METHODOLOGIES

UX Design: sketches, ideation, paper prototyping, wireframe and mockup

UX Research: qualitative (interviews, app reviews, content analysis), quantitative (survey, user study, Wizard of Oz experiment, statistical analysis), and mixed-method research

Tools: HTML/CSS, R, Sketch, InVision, Adobe Creative Suites (Illustrator, Audition, Premiere)

EDUCATION

09/2016-06/2022 Ph.D. in Informatics, University of California, Irvine
08/2012-05/2014 M.A., Communicative Sciences & Disorders, UT Austin
08/2010-12/2011 B.A., Communicative Disorders & Sciences, San Jose State U
01/2009-06/2010 Coursework in Linguistics, Cognitive Science, UC San Diego

RESEARCH EXPERIENCE

09/2016-Present Graduate Student Researcher, University of California, Irvine
07/2016-09/2016 The Wall Lab Clinical Research Staff, Stanford University
09/2012-06/2013 Language Learning Lab Research Assistant, UT Austin
06/2011-08/2011 Summer Research Assistant, University of Colorado, Boulder
09/2010-06/2011 Independent Research Studies, University of California, San Diego

TEACHING EXPERIENCE

09/2018-Present Graduate Teaching Assistant, University of California, Irvine

- INF 282: Design and Prototyping
- INF 284: Advanced Design and Prototyping

09/2016-06/2017 Graduate Teaching Assistant, University of California, Irvine

- ICS 166: Game Design Project
 - INF 134: User Interaction Software Projects
 - ICS 3: Internet Technologies and their Social Impact
- 08/2013-05/2014 Graduate Teaching Assistant, University of Texas, Austin**
- UGS 303: Race in the Age of Obama
 - ALD 118C: Distinguished Speakers Series
 - CSD 306K: Introduction to Communication Disorders
- 03/2011-02/2016 Mandarin/ESL Instructor, San Jose Learning Center**

INDUSTRY EXPERIENCE

- 03/2017-Present Data Science Intern & Consultant, Cognoa, Palo Alto
- 01/2014-05/2014 Texas Venture Lab Associate, University of Texas, Austin
- 02/2012-06/2015 Chinese Educational Content Analyst, Zoodles, Mountain View

CLINICAL EXPERIENCE

- 08/2014-Present Speech Language Pathologist, California
- Anaheim Regional Medical Center
 - Brookdale Senior Living
 - San Mateo Medical Center
 - Regional Medical Center of San Jose
 - The Forum Skilled Nursing Facility
 - United Cerebral Palsy Clinic
 - The Creekside School
 - Learning to Succeed Clinic
- 09/2012-05/2014 Graduate Clinician, University of Texas, Austin
- 09/2011-12/2011 Graduate Clinician, San Jose State University
- 07/2010-07/2011 Autism Behavioral Intervention Specialist, Aspiranet, San Jose
- 06/2009-09/2009 Behavioral Educator, Life Steps Foundation, Burlingame

PUBLICATIONS & PRESENTATIONS

Du, Y. (Forthcoming). Bridging the gap in mobile interaction design for children with disabilities: Perspectives from a pediatric speech language pathologist. Opinion paper accepted at the *International Journal of Child-Computer Interaction*.

Du, Y., Abbas, H., Taraman, S., Segar, S., Bischoff, N. (2018). In-home speech and language screening for young children: A proof-of-concept study using interactive mobile storytime. Full paper accepted at the *American Medical Informatics Association (AMIA) 2019 Informatics Summit*, San Francisco, United States.

Du, Y., Abbas, H., Taraman, S., Segar, S., Bischoff, N. (2018). In-home speech and language screening for young children: A pilot study using interactive mobile storytime. Abstract accepted at the *AIMed North America*, Dana Point, United States.

Du, Y. (2018). How are mobile apps designed and used to help children with communication impairments? Technical research session (#4599) accepted at the *2018 American Speech-Language-Hearing Association Annual Convention*, Boston, United States.

Du, Y., & Soria, A.M. (2018). Designing conversational agents to support home exercises for children who receive speech and language therapy. Poster and oral presentation accepted at the *American Medical Informatics Association (AMIA) 2018 Annual Symposium*, San Francisco, United States. ***Selected as the second place at the Student Design Challenge “Delivering Care Anytime Anywhere”.**

Du, Y. (2018). Considerations and challenges in designing speech and voice technology for children with complex communication needs. Short paper accepted at the Accessible Voice Interface Workshop, 21st ACM Conference on Computer-Supported Cooperative Work and Social Computing, Jersey City, NJ.

Du, Y., Ibrahim, S., & Boyd, L.A. (2018). From behavioral and communication intervention to interaction design: User perspectives from clinicians. Experience report accepted at the *20th International ACM SIGACCESS Conference on Computers and Accessibility*, Galway, Ireland.

Du, Y. (2018). Unpacking meaningful play in the clinical context: Mobile app use between Children with disabilities and their speech language pathologists. Full paper accepted at the *International Academic Conference on Meaningful Play*, East Lansing, Michigan.

Du, Y. (2018). Tracking children’s speech and language development: A pilot study using interactive mobile storytime. Short talk accepted for “Panel - Working with Industry & Making Impact” at the *Researching Multimodal Childhood Symposium*, Odense, Denmark.

Du, Y. (2018). Connected learning from assessment to treatment: How clinical decision-making and practices in speech therapy can inform game design. Poster presentation at the *Connected Learning Summit*, MIT Media Lab, Cambridge, Massachusetts.

Du, Y. (2018). Insights from pediatric speech language pathologists: Considering instructional goals in app recommendations for children with disabilities. Workshop paper accepted for the *2nd International Workshop on Children & Recommender Systems (KidRec)*, Trondheim, Norway.

Du, Y. (2018). Apps for communication: Investigating the design and use of mobile applications for pediatric speech therapy. Extended abstract accepted for the Student Research Competition at the *5th IEEE/ACM International Conference on Mobile Software Engineering and Systems*, Gothenburg, Sweden.

Du, Y., Abbas, H., Taraman, S., & Seger, S. (2017). Storytime: in-home automatic assessment for speech and language development in young children. Abstract accepted at the *1st Shaping the Future of Pediatrics Congress*, Rome, Italy.

Du, Y. (2017). Opportunities and challenges in the implementation of mobile health (mHealth) technology for dementia screening. Poster presented at the *Computing Research Association for Women (CRA-W) Grad Cohort Workshop*, Washington, D.C.

Sheng, L., Yang, M., Peña, E., Bedore, L., Li, F., & **Du, Y.** (2016). Profiles of language impairment in Mandarin-English bilingual children: A pilot study. Poster presented at the 37th annual *Symposium on Research in Child Language Disorders*, Madison, Wisconsin.

SCHOLARSHIPS/AWARDS

University of California, Irvine

01/2019 School of Information and Computer Sciences Innovation Fellowship (\$2000)

09/2018 DECADES Student Travel Grant (\$500)

08/2017 Fischer Fellowship Recipient (\$2000)

University of Texas, Austin

06/2014 LCAE Professional Development Grant (\$1000)

05/2014 Presidential Scholarship in Speech-Language Pathology (\$2500)

05/2014 Moody College Career Development Grant (\$500)

Other

08/2018 Halliday-Hasan International Fund Bursary (¥5000)

11/2015 TEDMED Front Line Scholarship (\$2475)

SERVICES

2018-2019 Games for Health Journal Student Committee

04/2018 Student Reviewer, CSCW 2018 Conference, Jersey City, NJ

2017-2018 Social Chair, Informatics Graduate Student Association (IGSA), UC Irvine, CA

2016-2017 Webmaster, Diverse Educational Community and Doctoral Experience (DECADE)

11/2017 Conference Volunteer, TEDMED, Palm Springs, CA

06/2017 Conference Volunteer, Health Experience Refactored Conference, Boston, MA

10/2016 Conference Volunteer, Tech & Media in Children's Development, Irvine, CA

07/2015 Clinician Volunteer, ICAN Talk AAC Camp, Pittsburgh, PA

2013-2014 Assistive Technology Lab Volunteer, Goodwill Industries of Central Texas

2011-2012 Inpatient Rehabilitation Volunteer, Good Samaritan Hospital, San Jose, CA

07/2011 Cochlear Implant Camp Volunteer, "Listen to Me" Summer Institute

CONFERENCES/WORKSHOPS

05/2019 2019 AAC Doctoral Student Research Think Tank, University Park, PA

12/2018 AIMed North America, Dana Point

11/2018 American Speech-Language-Hearing Association Annual Convention, Boston

11/2018 American Medical Informatics Association Annual Symposium, San Francisco

10/2018 International ACM SIGACCESS Conference on Computers and Accessibility, Galway, Ireland

10/2018 International Academic Conference on Meaningful Play, East Lansing
 08/2018 Researching Multimodal Childhood Symposium & 9th International Conference on Multimodality, Odense, Denmark
 08/2018 Connected Learning Summit, Boston
 06/2018 Interaction Design for Children, Trondheim, Norway
 04/2018 Grad Cohort Workshop-Woman, Computing Research Association, San Francisco
 11/2017 American Speech-Language-Hearing Annual Convention, Los Angeles
 07/2017 American Speech-Language-Hearing Association Connect, New Orleans
 04/2017 Grad Cohort Workshop-Woman, Computing Research Association, Washington D.C.
 03/2017 AAC By the Bay Conference, San Jose
 01/2017 International Cognitive-Communication Disorders Conference, Orange
 11/2015 TEDMED, Palm Springs, CA
 07/2015 iCan Talk AAC Summer Camp, University of Pittsburgh, PA
 06/2014 11th International Conference of Learning Science, Boulder, CO
 11/2013 American Speech-Language-Hearing Annual Convention, Chicago, IL

CERTIFICATIONS/PROFESSIONAL TRAINING

- Certificate of Clinical Competence in Speech-Language Pathology, ASHA
ASHA #14091171; California State License #22928
- Lee Silverman Voice Treatment (LSVT) LOUD Certification
- Fiberoptic Endoscopic Evaluation of Swallowing (FEES) Training for Dysphagia
- CPR/AED/First Aid Certification

LANGUAGES

Mandarin & English	Native-speaker proficiency for conversation, reading, and writing
Japanese	Intermediate proficiency for conversation, reading, and writing
Spanish & ASL	Beginner level proficiency for conversation