XIAOLU BAI

Raleigh, NC ⋄ xbai23@ncsu.edu ⋄ (562) 241-2477

EDUCATION

North Carolina State University, Raleigh, NC　　　　　*Expected* May 2023
Ph.D. in Human Factors and Applied Cognition

California State University, Long Beach, CA　　　　　August 2020
M.S. in Psychology, Option in Human Factors

Purdue University, West Lafayette, IN　　　　　May 2018
B.S. in Psychological Science & Applied Statistics

RESEARCH PROJECTS

Cognitive research in Lower-limb Prostheses, Raleigh, NC
Graduate Research Assistant　　　　　*2020 - present*

Conduct/Collaborate in a systematic review on cognitive measures in walking tasks. Standardize research protocol on testing human-prosthesis interaction.

Center of Usability and Accessibility in Design, Long Beach, CA
Lab Manager　　　　　*August 2019 - May 2020*

Schedule and manage projects in the lab.

Graduate Research Assistant　　　　　August 2018 - July 2019

Analyze data from evaluations and surveys. Design and formatted online instructional courses to ensure course accessibility. Evaluate E-books with accessibility guidelines.

Perception and Action Lab, Long Beach, CA　　　　　February 2019 - May 2020
Graduate Research Assistant

Investigate the take-over patterns on self-driving cars. Create driving simulation in virtual reality environment for research use. Program car physics, data collection system and traffic system in Unity.

Usability Testing Medical Device　　　　　October 2019 - May 2020

Conduct heuristics evaluations on autonoME Hospital Environmental Control Unit (ECU) device at VA hospital.

PUBLICATIONS

- Hancock, G.M., Anvari, S.S., Nare, M.T., Mok, N.B., Ayvazyan, A., McCoy, K.M., **Bai, X.**, Mather, G.P., McBride, A.S., & Morales, N. (2020). Environmental control units for inpatient care at Veterans Affairs spinal cord injury centers: Heuristic evaluation and design recommendations. In: S. Yamamoto & H. Mori (Eds.), *Interface and the Management of Information: Proceedings of the 22nd International Conference of Human-Computer Interaction.* (pp. 23 – 38). Cham, Switzerland: Springer.

POSTER PRESENTATION

- Chompff, R.M.E., McCoy, K.M., Park, J., **Bai, X.**, & Miles, J.D. (2019, November). Evaluation of autonomous vehicles and smart technologies for their impact on traffic safety and traffic congestion. Poster given at *the 4th CSULB Graduate Research Conference* , Long Beach, CA.

- Torr, A, **Bai, X.**, & Vu, K.-P.L. (2019, March). Blackboard course design for SkillCommon website. Poster given at *the 14th Annual CSULB HFES Student Chapter Conference*, Long Beach, CA.

- **Bai, X.**, Proctor, R.W., & Dunston, P.S. (2018, April). Simulated construction equipment training with internal focus attention and external focus attention. Poster given at *the annual Purdue Psychology Undergraduate Research Conference*, West Lafayette, IN.

- **Bai, X.**, & Gray, C.M. (2016, April). Towards consolidating the UX knowledge. Poster given at *the annual Purdue Undergraduate Research Conference*, West Lafayette, IN.

TEACHING

Biological Psychology	North Carolina State University
Graduate Teaching Assistant	Fall 2020
Introductory Statistics in Psychology	California State University, Long Beach
Graduate Teaching Assistant	Fall 2018

HONORS & AWARDS

University Graduate Fellowships from North Carolina State University	2020
Office of Undergraduate Research Scholar from Purdue University	2018
Discovery Park Undergraduate Research Fellowship from Purdue University	2016

PROFESSIONAL AFFILIATIONS

Human Factors and Ergonomics Society (HFES) member	2017 - Present