KHUYEN LE

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http://khuyen-le.github.io

Psychology PhD student with experience and interest in **data science** and **UX/UI**, with a strong background in qualitative and quantitative **experimental design**, **statistical analysis**, **interaction design** and **software engineering**.

EDUCATION

Incoming PhD Student, Experimental Psychology, Language & Development Lab
  UC San Diego, San Diego, CA
MS, Computer Science (Human-Computer Interaction), June 2022
BS (with Departmental Honors and Distinction), Symbolic Systems (Cognitive Science), June 2021
BA (with Distinction), Comparative Literature, June 2021
  Stanford University, Stanford, CA
  Cumulative GPA: 3.9 (MS), 4.0 (BS+BA)

RESEARCH EXPERIENCE

Cognitive Science Researcher   06/18 – present
  Language & Development Lab, UC San Diego
  Language & Cognition Lab, Stanford University

- Research interests: modelling conceptual abstraction and analogy with behavioral data and large-scale datasets; language and culture's influence on cognition; language acquisition in children and AI agents.
- Skills: experimental design, data collection (in-person and through Prolific and mTurk), data analysis (R and Python), statistical analysis (linear mixed-effects model, power analysis, permutation tests), language modelling (NLTK, fastText), literature review. Coordinating with IRBs, foreign institutions, other researchers and foreign language speakers to conduct cross-cultural studies (specifically, mainland China and Vietnam).

Human-Computer Interaction Researcher   04/20 – 09/21
  ProtoLab, UC San Diego
  Smart Primer Project, Stanford University

- Skills: needfinding, rapid prototyping, UX research, software solution implementation (React, Node.js, MongoDB, Unity, HTML, CSS).

REPRESENTATIVE PROJECTS

Is It Language or Is It Culture? (Undergraduate honors thesis, https://purl.stanford.edu/kg784gg3693)
- Show that environmental statistics (as proxied by linguistic statistics such as lexical co-occurrence and word vector cosine distances) predicts cross-cultural differences in similarity judgements of words (English vs Vietnamese vs Mandarin speakers).

Design Metadata, NLP-powered interface assisting ideation (UC San Diego)
- UI design and prototyping, UX research, web app development (React, Node.js, MongoDB)

Context-Aware Learning Experiences for Children, using voice agents and AR-enhanced narratives (Stanford)
- Conversational voice agent design and prototyping, narrative design, UX research with children (3-8yo), AR development (Unity).

aartvark, enhancing museum experience for low-vision viewers with audio (https://github.com/juliagj/aartvark)
- UX research with blind/low-vision users, Arduino, accompanying mobile app development (React Native)

SKILLS

- Languages: JavaScript, CSS, HTML, Python (including NLTK, NumPy, SciPy), R, SQL, C++.
- Frameworks: React, React Native, Node.js, Express, MongoDB.
- Programs: Figma, Unity, A-Frame, Processing, Twine, Adobe Photoshop, Illustrator and Premier.
- Hardware: Arduino, Raspberry Pi.
- Transcription and analysis of recorded spontaneous conversations and other types of recordings with Praat.
- Native speaker of Vietnamese (born and raised in Vietnam). Familiar with French, German, and Japanese.