Alexander Hambley

Email: alexanderhambley1 <at> gmail.com
Website: alexhambley.github.io
ORCID: 0000-0003-1193-6632
LinkedIn: in/alexanderhambley

OVERVIEW

- **Profile**: I am a researcher working at the boundary of HCI and AI. Thus far, my research has focused on the design, development, and evaluation of accessibility technologies for visually impaired users. I am seeking postdoctoral opportunities at the intersection of HCI and AI. My first-class degree in Computer Science has enabled me to develop excellent analytical skills, the ability to think logically and to work under pressure.

- **Research Interests**: Human-Computer Interaction, Web Accessibility, AI, Machine Learning, Unsupervised Learning.

EDUCATION

- **The University of Manchester**   Manchester, UK
  PhD in Computer Science   *January 2020 - Present*

  Thesis title: *Empirical web accessibility evaluation for blind web users.*
  Advised by: *Prof. Simon Harper, Dr. Yeliz Yesilada, Dr. Markel Vigo.*

- **The University of Nottingham**   Nottingham, UK
  BSc (Hons) in Computer Science; First Class (76%)   *September 2016 - July 2019*

  First-class modules include: *Fundamentals of AI (73%); Software Maintenance (77%); Distributed Systems (71%); Human-Computer Interaction (70%); Software Specification (81%); Software Engineering Group Project (Leader) (90%); Collaboration and Communication Technologies (79%); Mobile Device Programming (78%); Professional Ethics in Computing (78%); Computer Security (73%); Fundamentals of Information Visualisation (81%).*
  Dissertation: *A study of the addictive nature of smartphones and social media (84%).*

EXPERIENCE

- **The University of Manchester**   Manchester, UK
  Graduate Instructor   *January 2020 - Present*

  - **User Experience**: Marked and moderated coursework for over 150 students. Provided formative and summative feedback.

  - **Database Systems**: Ran laboratory sessions for 30 students at a time. Assessed and moderated coursework for over 50 students. Presented formative and summative feedback.

  - **Introduction to Programming II**: Coordinated focused laboratory sessions. Marked and moderated coursework. Assigned formative and summative feedback. Facilitated group work.

  - **First Year Group Project**: Advised student projects. Provided formative feedback. Facilitated group work.

- **HeX Productions**   Nottingham, UK
  Software Developer (Accessibility)   *May 2019 - September 2019*

  - **Impact**: Established a successful new technology event in Nottingham. Created a new accessible website for the event. Modified and repaired several existing public sector websites for conformity with WCAG 2.1 AA.

  - Created an accessible e-Learning website and presented to over 30 developers and industry experts talks on accessible web development.

  - **Skills**: Developed websites using technologies such as WordPress, Terminalfour, PHP, JavaScript, and CSS. Worked as a full-stack developer with accessibility in mind, developing a practical understanding of WCAG, presenting, public speaking and organising skills.

- **The University of Nottingham**   Nottingham, UK
  IT Support Tutor   *August 2018 - December 2018*

  - **Impact**: Advised over 100 students with registration difficulties, timetable problems and student ID concerns.

- ○ **Skills**: Advanced independent and collaborative working skills. Problem solving. Interpersonal skills.

- **The University of Twente (UT)**   Enschede, Netherlands
  Research Software Developer (Intern)   *June 2018 - August 2018*

  - ○ **Impact**: Developed prototype social robots at the UT DesignLab to assist children with ASD. Robots would vary facial movements to mimic human faces.
  - ○ **Skills**: Demonstrated ability to think critically and to communicate effectively with a diverse group of people. Displayed ability to create rapid, effective, low and high fidelity prototypes.

AWARDS

- Best communication paper, W4A 2022 *(April, 2022)*

- Departmental Doctoral Studentship (University of Manchester) (*January, 2020 - Present*)

PROFESSIONAL SKILLS

- **Languages**:   Python, PHP, C, C#, Java, JavaScript, Swift, SQL, R, MATLAB
- **Frameworks**:   Scikit, Numpy, TensorFlow, Flask, BeautifulSoup, Scrapy, React, LAMP
- **Tools**:   Docker, GIT, MySQL, SQLite, PHPMyAdmin, Android Studio, XCode
- **Soft Skills**:   Research, Software Engineering, Project Management, Writing, Public Speaking, Time
  Management,   Scientific Communication, Leadership, Collaboration

ENGAGEMENT

- **ClickSilver (Capital One)**   Nottingham, UK
  Mentor   *August 2018 - December 2018*

  - ○ **Task**: Mentored an older person with memory difficulties in the use of computers.
  - ○ **Outcome**: Developed unique ways of teaching complex ideas to someone with memory problems.

PROFESSIONAL ACTIVITIES

- **Organisational Roles**
  Publicity Chair   *September 2021 - April 2022*

  - ○ **W4A 2022**: Refined mailing lists, disseminated calls for papers and ran conference social media channels. Compiled and uploaded video recordings of the conference proceedings. Liaised with authors, organising and steering committee.

- **Peer-Reviewing**
  Journals

  - ○ **ACM Transactions on the Web (TWEB)**: *2 Reviews in 2022*
  - ○ **ACM Transactions on Accessible Computing (TACCESS)**: *2021*

FIRST-AUTHOR RESEARCH PUBLICATIONS

- **Optimising the website accessibility conformance evaluation methodology**. **Alexander Hambley**, Yeliz Yesilada, Markel Vigo, Simon Harper. W4A 2022 (*April, 2022*).
  Best Communications Paper Winner.

- **Empirical web accessibility evaluation for blind web users**. **Alexander Hambley**, Yeliz Yesilada, Markel Vigo, Simon Harper. ACM SIGACCESS Accessibility and Computing (*January, 2021*)