

MARYAM Bandukda

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RESEARCH INTERESTS

Human-Computer Interaction, Accessibility, Ubiquitous Computing, Assistive Technologies, Augmented/Virtual Reality

EDUCATION

University College London (UCL)

London, UK

PhD HUMAN-COMPUTER INTERACTION

2017 – 2021

- Thesis: Technology-mediated nature interaction for blind and partially sighted people
- Funded by Engineering and Physical Sciences Research Council (EPSRC)
- Supervised by Dr. Catherine Holloway and Prof. Nadia Berthouze at UCL Interaction Centre (UCLIC) and Global Disability Innovation Hub (GDI Hub)

MSc HUMAN-COMPUTER INTERACTION

2016 – 2017

- Assistive technologies, physical computing, interaction design, and affective computing
- Thesis: A contextual inquiry of blind navigation at Queen Elizabeth Olympic Park

National university of computing and emerging sciences (NUCES)

Karachi, Pakistan

MSc SOFTWARE PROJECT MANAGEMENT

2008 – 2010 | GPA: 3.4

University of Karachi

Karachi, Pakistan

BSc COMPUTER SCIENCE

2003 – 2006 | GPA: 3.7

- Top 3 in BSc Computer Science class of 2006.

AWARDS

2019 SIGACCESS Doctoral Consortium Travel Grant for ASSETS 2019

Amount: \$2,000

PUBLICATIONS

Peer Reviewed Extended Abstracts and Doctoral Consortium

- [EA.2] **Maryam Bandukda**. Technology-Mediated Nature Interactions for Blind and Partially Sighted People. Doctoral Consortium at the 21st International ACM SIGACCESS Conference on Computers and Accessibility, October 25 – 30, 2019, Pittsburgh, PA, USA.
- [EA.1] **Maryam Bandukda**, Aneesha Singh, Nadia Berthouze, and Catherine Holloway. Understanding Experiences of Blind Individuals in Outdoor Nature. In Extended Abstracts of the ACM Conference on Human Factors in Computing Systems (CHI EA '19), May 4-9, 2019, Glasgow, UK.

Posters and Talks

- [T.2] Maryam Bandukda, International Conference of Navigation, 2019, Edinburgh, UK
- [T.1] Poster presentation at Sensing Nature: Wellbeing with nature and sight impairment, 2018, London, UK

ACADEMIC AND RESEARCH EXPERIENCE

Teaching Assistant

COMP0016: Human-Computer interaction	2018, 2019
PSYC001: Accessibility and Assistive Technologies	2018, 2019
COMP0035: Systems Engineering	2019
INST0019: Introduction to Programming	2018

Project Mentoring and Supervision

MSc project co-supervision	2020
Accessibility and Assistive Technologies Mini-Projects	2019

Research Assistant

Coded video data on WeDraw project (https://www.wedraw.eu/); exploiting the best sensory modality for learning arithmetic and geometry at primary school	2018
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PROFESSIONAL EXPERIENCE

Academic Research Communication Liaison | GDI Hub, London

Liaising between the GDI Hub academic research group and communication and engagement teams to help manage publication of academic research on GDI Hub and UCL communication platforms and providing technical support to the communications team for managing GDI Hub website.	2019 - Present
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Business Analyst | SpringerNature, London

Creating business process workflows, defining project requirements, stakeholder management, facilitating project inception workshops	2015 – 2016
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Agile Project Manager | SpringerNature, London

Used Agile methodologies for project management of various projects at NPG, Springer Healthcare, and BiomedCentral.	2013 – 2015
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Contract Digital Project Manager | London

Various digital project management positions working on digital marketing campaigns, websites, and mobile apps. Responsibilities included account management, requirements gathering and product backlog management, sketching wireframes, a bit of programming, and project delivery.	2011 – 2013
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VOLUNTARY SERVICE

Academic research Student Volunteering at conferences

ACM UbiComp	2019
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Peer Reviewer

ACM CHI	2019, 2020
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Staff-Student Consultative Committee Postgraduate Student Representative

2018 – 2020

My Guide at Guide Dogs for the Blind Association | London

Sighted guiding children and young people, safeguarding, and supporting them in physical activities and communication as and when needed.	2019 – Present
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Volunteer at Royal Society for Blind Children | London

Befriending people with sight loss, sight guiding, and supporting them in physical activities and communication as and when needed. Part of my role also involves safeguarding and reporting to volunteer manager.	2018 – Present
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REFERENCES

Dr. Catherine Holloway, *Associate Professor at UCLIC and Academic Director of GDI Hub*

UCL Interaction Centre (UCLIC),

University College London 66 - 72 Gower Street, London, WC1E 6EA, United Kingdom

c.holloway@ucl.ac.uk

Prof. Nadia Berthouze, *Professor at UCLIC*

UCL Interaction Centre (UCLIC),

University College London 66 - 72 Gower Street, London, WC1E 6EA, United Kingdom

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