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EDUCATION

PHD IN COMPUTING SCIENCE

UNIVERSITY OF GLASGOW | Jan 2021 - April 2024 | Glasgow, Scotland

- Multidisciplinary research in human-computer interaction (HCI), machine learning, and signal processing, with a focus on interaction design using novel sensing hardware.
- Funded by Google's Advanced Technology and Projects Group (ATAP).
- Thesis Link.

BSC (HONS) IN COMPUTING SCIENCE (2:1)

UNIVERSITY OF GLASGOW | Sep 2017 - Jun 2020 | Glasgow, Scotland

RESEARCH PROJECTS

PhD research focused on developing novel systems for gesture-based interactions. It emphasized designing socially acceptable interaction techniques to enhance user experience with smart devices, achieved through technical prototypes and comprehensive UX research methodologies.

INTERACTION DESIGN AND EVALUATION

UNIVERSITY OF GLASGOW | Jan 2021 - Sep 2024 | Glasgow, Scotland

- Developed interactive systems, progressing from wireframes and sketches to fully implemented prototypes.
- Designed and conducted pilot studies and ethics-approved controlled user studies, incorporating think-aloud protocols, task analysis, post-study interviews, and questionnaires to evaluate usability and user preferences.
- Conducted 'in the wild' studies to derive actionable insights, focusing on task performance, user comfort and social acceptability in public interactions.
- Performed qualitative and quantitative statistical analyses on data gathered from user studies to validate hypotheses and inform system improvements.

GESTURE RECOGNITION

UNIVERSITY OF GLASGOW | Sep 2022 – Feb 2024 | Glasgow, Scotland

- Formulated and executed data collection protocols using various gesture-sensing hardware (e.g., data gloves, miniature radars, depth cameras).
- Developed new datasets for Google's proprietary sensors through systematic data collection with participants.
- Engineered novel real-time gesture recognition systems using deep learning and signal processing.

OTHER EXPERIENCE

TUTOR

UNIVERSITY OF GLASGOW | Jan 2022 - Present | Glasgow, Scotland

 Delivered tutoring sessions and assessed coursework for undergraduate and master's courses, including Deep Learning, Robotics, HCI, and Cybersecurity.

INTERNSHIPS

SCOTSBRIDGE HOLDINGS | Jun 2019 - Aug 2019 | Glasgow, Scotland

- Redesigned and implemented the company website.
- Developed a regression-based machine learning model to forecast building prices in Glasgow, adopted by company directors for strategic business decisions.

ROYAL SOCIETY FOR THE PROTECTION OF BIRDS | Sep 2018 - May 2019 | Glasgow, Scotland

- Developed an Android app for public bird sightings, enabling data collection for species population tracking.
- Followed agile software development practices, including Scrum methodologies.

FARMCHIMP | Jun 2018 - Aug 2018 | Dubai, U.A.E

• Developed an interactive augmented reality iOS app using 3D models, animations, and tracking.

SKILLS

RESEARCH

Controlled experiments • User studies • UX research • Surveys • Interviews • Statistical data analysis

PROGRAMMING LANGUAGES

Python • R • C++ • Swift • Java • Javascript, HTML • CSS • BASH • LaTeX

LIBRARIES

NumPy • Pandas • Scikit • SciPy • Matplotlib • Seaborn • TensorFlow • PyTorch • Keras • Statsmodels • Jupyter

SOFT SKILLS

Team Player • Critical Thinking • Public Speaking

AWARDS

Three-Minute Thesis Competition Finalist | For presenting innovative PhD research effectively | University of Glasgow | 2024

Soli Research Funding | PhD funding from Google ATAP to conduct research using proprietary radar sensors | Google ATAP | 2021

Postgraduate Research Excellence Bursary | For potential in computer science research | University of Glasgow | 2020

International Academic Excellence Scholarship | For exceptional undergraduate academic performance | University of Glasgow | 2018

Top Student Medal in Computing | For topping year 1 Computing Science | 2017

INTERESTS

Travelling • Fitness • Nutrition

REFERENCES

Prof. Roderick Murray-Smith, Professor of Computing Science, University of Glasgow | Primary Supervisor | roderick.murray-smith@glasgow.ac.uk

Dr. Chaitanya Kaul, Research Fellow, University of Glasgow | Secondary Supervisor | chaitanya.kaul@glasgow.ac.uk