Erroll Wood

+44 7738 717662 · erroll.wood@cl.cam.ac.uk · www.errollw.com Gonville & Caius College · Cambridge · CB2 1TA

EDUCATION

Cambridge University, Gonville & Caius College

2009 - present

PhD in progress – *Computer Science*, supervisor: Peter Robinson

2016

Dissertation: Gaze Estimation using learning-by-synthesis and analysis-by-synthesis.

MEng, Distinction - Computer Science Tripos Part III

2013

Dissertation: GAZE ESTIMATION FOR PORTABLE DEVICES. A gaze-tracking system suited for commodity portable devices, taking the limited image sensors and typical use environments into account (supervisor: Andreas Bulling).

BA, Class I - Computer Science Tripos Part II

2012

Dissertation: 3D FRACTAL EXPLORATION USING A SCALE-ADAPTIVE SPARSE VOXEL OCTREE. A system for procedurally generating and rendering 3D fractals in real time, with performance independent of the scale they are explored at (supervisor: Alex Benton).

St Paul's School, London

2004 - 2009

A-Levels: A in Maths, Further Maths, Physics and Computing [A2], A in Economics [AS]

INTERNSHIPS

Microsoft Research Cambridge – Intern

Winter 2015

Used a hand-tracker to explore the effects of different types of virtual hand embodiments on remote collaboration for large displays (host: Jamie Shotton).

Cambridge University Computer Lab – Research intern

Summer 2013

Developed a collection of interactive networked office noticeboards to facilitate remote communication and group awareness (NetBoards). These have been in constant use for three years.

Qualcomm Research, Cambridge – *Software engineer intern*

Summer 2012

Developed Android clients to showcase and test context-aware services. Researched privacy concerns for Android, focussing on context-aware data collection.

Credit Suisse – Lead software engineer intern

Summer 2011

Lead developer in a team of 13 interns. Developed a real-time server monitoring web-app which was deployed by the company.

Succeed Consultancy – *Software engineer intern*

Summer 2010

Produced plug-ins and unit tests for load-testing employee management software.

Symbian Foundation – Work experience

Summer 2009

Documented the process of porting Flash apps to Flash Lite for mobile.

Microsoft Research Cambridge – *Work experience*

Winter 2008

Developed a Flash web applet for the Environmental Science Dept. to help present their study on birds' flight patterns.

Efficient and Precise Interactive Hand Tracking Through Joint, Continuous Optimization of Pose and Correspondences J. Taylor, L. Bordeaux, T. Cashman, B. Corish, C. Keskin, T. Sharp, E. Soto, D. Sweeney, J. Valentin, B. Luff, A. Topalian, E. Wood, S. Khamis, P. Kohli, S. Izadi, R. Banks, A. Fitzgibbon, J. Shotton SIGGRAPH, 2016 (to appear) A 3D Morphable Model of the Eye Region 2016 Erroll Wood, Tadas Baltrusaitis, Louis-Philippe Morency, Peter Robinson, Andreas Bulling Eurographics, 2016, poster Learning an Appearance-Based Gaze Estimator from One Million Synthesized Images 2016 Erroll Wood, Tadas Baltrusaitis, Louis-Philippe Morency, Peter Robinson, Andreas Bulling Eye Tracking Research & Applications, 2016, Emerging Investigator Award Rendering of Eyes for Eye-Shape Registration and Gaze Estimation 2015 E. Wood, T. Baltrusaitis, X. Zhang, Y. Sugano, P. Robinson, and A. Bulling International Conference on Computer Vision, 2015, poster NetBoards: Investigating a Collection of Personal Noticeboard Displays in the Workplace 2014 Erroll Wood and Peter Robinson Interactive Tabletops & Surfaces, 2014, invited demo EyeTab: Model-based gaze estimation on unmodified tablet computers 2014 **Erroll Wood and Andreas Bulling** Eye Tracking Research & Applications, 2014 **AWARDS & ACHIEVEMENTS EPSRC Doctoral Training Studentship** 2013 **Gonville & Caius College Scholar** 2012 2nd Year Group Project Prize 2012 **British Informatics Olympiad**, National Finalist 2009 **Duke of Edinburgh's Award**, Gold Level 2008 **Arkwright Engineering Scholar** under Microsoft Research Cambridge 2007 OTHER ACTIVITIES **University Teaching** 2013 – *present* Taught Computer Vision, Graphics, and Artificial Intelligenceto undergraduates for over 100 hours, supervised final year projects, managed interns, and performed admissions interviews.

Gonville & Caius May Ball Committee – Web & Systems

Developed websites for two May Balls, handling ticketing, staffing, and exploring the themes. Implemented a networked mobile ticket scanning system for speeding up entry.

Game Development – *Indie Game Developer*

2005 - 2010

Developed many web-based minigames using Flash. These were distributed over the internet, generating revenue via sponsorship and advertising.

(last updated June 23, 2016)