

Erroll Wood

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Gonville & Caius College · Cambridge · CB2 1TA

EDUCATION

Cambridge University, Gonville & Caius College

2009 – present

PhD in progress on pervasive eye tracking for large displays (supervisor: Peter Robinson).

MEng, Distinction – *Computer Science Tripos Part III* 2013

Dissertation: GAZE ESTIMATION FOR PORTABLE DEVICES. Developed 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. Developed a system for procedurally generating and rendering 3D fractals in real time, 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]

GCSEs: 10 A*s and 1 A grade

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 an interactive networked public noticeboard framework to facilitate remote communication and group awareness (NetBoards).

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.

PUBLICATIONS

- 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 (to appear)
- 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
- St Paul's School Senior Scholar** 2008
- 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, Artificial Intelligence, and Information Theory to undergraduates for over 100 hours, supervised six final year projects, managed interns, and performed admissions interviews.
- Gonville & Caius May Ball Committee – Web & Systems** 2011 – 2014
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 January 15, 2016)