

Prof. Jonathan C. Roberts, Professor, Bangor University

Bangor University,
School of Computer Science.
Dean Street, Bangor,
Gwynedd, LL57 1UT

T. +44 1248 382725
E. j.c.roberts@bangor.ac.uk

<http://pages.bangor.ac.uk/~jcroberts>
twitter: @jcrbrts

Career

2015 – present		Professor , School of Computer Science, Bangor University
Oct 2007	- 2015	Senior Lecturer , School of Computer Science, Bangor University.
Jan 2004	- Oct 2007	Senior Lecturer , Computing Laboratory, University of Kent
May 1999	- Jan 2004	Lecturer B , Computing Laboratory, University of Kent
May 1999 (part time)	- Nov 2002	PGCHE , Postgraduate Certificate in Higher Education, University of Kent
1996	- May 1999	Research Fellow , Computing Laboratory, University of Kent. Including, part-time lecturing (Computer Graphics), University of Kent
October 1992	- Jan 1996	PhD in Computer Science, University of Kent, “Aspects of Abstraction in Scientific Visualization”
1992	- 1996	Part-time teaching (computer programming), University of Kent.
September 1989	- June 1992	BSc Hons First class honours in Computer Science, University of Kent.

Thesis Supervised

6 PhD Theses,
4 MPhil/MSc-R Theses,
Current: 2 PhD, 2 MSc-R

13 PhD External Examination,
4 MPhil/MSc-R External exam
6 PhD Internal Examinations

External examiner for MSC
courses at UEA.

Administrative Responsibilities

Director of Teaching & Learning,
Deputy head of School
Lead Visualization, Modelling & Graphics
group (vmg.cs.bangor.ac.uk)
Research Institute Visual Computing (RIVIC)

Previous:

Director of Examinations,
College Teaching & Learning Committee,
Senate Postgraduate Committee,
Director Research Group on Visual Analytics &
Security (VAS).
Senior Undergraduate Admissions Officer,
School research-seminar organiser.

Professional Memberships

SFHEA, The Higher Education Academy, ILT
(Inst. Learning & Teaching) (Since 2003)
ACM and ACM SIGGRAPH (since 2000)
IEEE and IEEE Computer Society (since 1992)
Eurographics Association (Since 2000) & Chair
of UK chapter (2005-2013)
EPSRC College Member
Founding member of UK-Visual Analytics
Consortium (UK-VAC) with Middlesex,
Imperial, UCL, Oxford Universities.
Member of Research Institute for Visual
Computing, RIVIC (www.rivic.org.uk)

Academic Invitations (abridged)

June 2014	Keynote, XII. Conference Culture and Computer Science; May 22-23, 2014 – Bode-Museum, Berlin DE
Jun 2013	2013 Dagstuhl Seminars on Information Visualization, Germany
Sept 2010	The Visual Analytics in Resilience Roadshow, Cardiff
Sept 2010	The UKVAC 2010 Visual Analytics Summer School, Middlesex Univ.
Jun 2010	2010 Dagstuhl Seminars on Information Visualization, Germany

Grants held (abridged)

2013 October	Roberts PI (lead) £576,196. AHRC (AH/L007916/1) Co production of alternative views of lost heritage, Consortium: Bangor CS, Bangor Archaeology, Aber CS, MMU History.
2013 October	KESS mini £18,370. (funding Lee Williams, MSC-R) collaboration with GAT
2013 Feb	Roberts PI, (lead) £97,83 AHRC (AH/K006401/1) Alternative views on the lost heritage of Gwynedd, 18 months (Bangor/Aber, Gwynedd Archaeological Trust)
2013 Jan	Roberts Col, (Surrey lead) £210,606 Bangor, EU-Framework, eVIVA – Evaluation of interpreters through virtual learning activities. Surrey Univ and 4 other EU partners.

Research synopsis: I am investigating ‘*how to visualise and analyse large datasets that are complex, incomplete, and uncertain and spread over different data sources*’. My general hypotheses is that by ‘*displaying the data in several different ways and alternative viewpoints and allowing the user to highly interact with it, then the user gains a better understanding of their data*’.

The second challenge is ‘*how to communicate, interrogate and discuss the results with different experts and stakeholders*’. Use many methods: multiple linked views, alternative representations, different visual depictions, different senses (Vision, Touch, Sound), technologies including projection displays, table-top touch displays, tangible models and Virtual Environments (VE), and apply the techniques to several research datasets: including oceanographic data, heritage environment records, archaeology and excavation, social media (e.g., Twitter).