

Aitor Apaolaza

School of Computer Science, University of Manchester,
Kilburn Building, Oxford Road,
Room LF1
Manchester
M13 9PL
United kingdom

Phone: +44 (0) 161 275 7821
email: aitor.apaolaza@manchester.ac.uk
URL: www.cs.man.ac.uk/~apaolaza/

Current position

Research Assistant, School of Computer Science, University of Manchester

Areas of specialization

Human-Computer Interaction • Interaction Analysis and Modelling

Education

2011-Present PHD. CANDIDATE in Computer Science, University of Manchester

My work focuses on studying long-term Web interaction tendencies, and providing mechanisms to get insight into the evolution of users' Web behaviour. I have designed and developed an unobtrusive, low-level, and long-term Web interaction capture solution. This capture solution can be deployed on any Web site and Web application, with minimal modifications, and enables the capture of Web interaction data from users in an in-situ manner. I have also developed analysis systems to process all the captured data. The resulting analysis provides insight into longitudinal tendencies of users' Web interaction behaviour.

2004-2010 INGENIERO EN INFORMÁTICA, University of the Basque Country

I have obtained an undergraduate masters degree in computer science. I learned generically applicable concepts, including but not limited to: programming (C, Java, and Ada), abstract mathematical methods in computer science, computer networks, databases, graphic applications, artificial intelligence techniques, and industrial robotics and control.

Work Experience

2015-Present RESEARCH ASSISTANT, IDInteraction project, University of Manchester

From November 2015 to June 2016 I took part in the IDInteraction project, led by Dr. Caroline Jay. Participants were filmed interacting with a second device while watching devices. Event data from the device was also captured, and synchronised with the visual recordings. My main role consisted in the analysis of the event data, so it could be used to build predictors of participant's attention.

2012-2014 TEACHING ASSISTANT, University of Manchester

I assisted demonstrating, teaching students and marking their work with the following courses: Object-Oriented Programming with Java, and User Experience.

2010-2011 JUNIOR RESEARCHER, CICtourGUNE, Full-time
My main role was the design of tourist-oriented location-aware mobile systems, involving social and augmented reality capabilities. The design of these mobile systems also involved capturing data from their use, location, and bespoke surveys, for analysis. I collaborated on various research projects focused on enhancing users' touristic experience.

2009-2010 RESEARCH INTERNSHIP, CICtourGUNE, Part-time
I developed an Android application to enhance touristic experiences with social aspects. The application allowed tourists to share pictures and comments of touristic points of interest with the rest of users, as well as obtain more information about these points of interest.

Certifications

2011 CAE, Cambridge Certificate in Advanced English
Grade A, equivalent to a level C2 in the CEFR (Common European Framework of Reference for Languages).

Grants

2011 EPSRC 4-year PhD studentship
2013 ACM Grant, UIST'13 Doctoral Consortium

Volunteering

2012-2015 PGR MENTOR, University of Manchester
I am part of the Postgraduate Research mentors group in the School of Computer Science. We arrange social and academic events to help Postgraduate Research students throughout their studies, socially, academically, and with professional advice.

2014-2015 WEB CHAIR, ASSETS 2015
I am responsible for designing, building and maintaining the Web site for the conference (<http://assets15.sigaccess.org/>).

Skills

PROGRAMMING LANGUAGES

DAY TO DAY USE: Java, JavaScript.

FAMILIAR: Matlab, C.

STATISTICAL COMPUTING

DAY TO DAY USE: R.

FAMILIAR: Matlab.

DATABASE SYSTEMS

DAY TO DAY USE: MongoDB.

FAMILIAR: MySQL, SQLite.

PROGRAMMING ENVIRONMENTS

DAY TO DAY USE: Eclipse, RStudio, Geany.

FAMILIAR: NetBeans, Visual Studio.

MARKUP LANGUAGES

HTML, CSS, Latex.

ADDITIONAL COMMENTS:

I have experience developing and deploying Android applications, developing Web applications using R as business logic – Shiny library for R –, as well as the design and development of dynamically updated Web sites.

Publications

- 2016 A Apaolaza, R Haines, A Aizpurua, A Brown, M Evans, S Jolly, S Harper, C Jay, “ABC: Using Object Tracking to Automate Behavioural Coding”, *Proceedings of the adjunct publication of the 34th Annual ACM Conference on Human Factors in Computing Systems*, To be published
- 2015 A Apaolaza, S Harper, C Jay, “Longitudinal analysis of low-level Web interaction through micro behaviours”, *Proceedings of the 26th ACM Conference on Hypertext & Social Media*
- 2013 A Apaolaza, “Identifying emergent behaviours from longitudinal web use”, *Proceedings of the adjunct publication of the 26th annual ACM symposium on User interface software and technology*
- 2013 A Apaolaza, S Harper, C Jay, “Understanding users in the wild”, *Proceedings of the 10th International Cross-Disciplinary Conference on Web Accessibility*

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<http://www.cs.man.ac.uk/~apaolaza/resources/curriculum-vitae.pdf>