Hayden Duncan Stainsby

Mobile: +34 620 304 130

Email: hds@caffeineconcepts.com

Date of birth: 27 April, 1983 Nationality: Australian

Curriculum Vitæ

Experience

Research Fellow, Universitat Autònoma de Barcelona, Spain — 2013-present

New research in the area of computational number theory. This position also includes responsibility for teaching undergraduate level classes.

Systems Developer & Administrator (part time), Titan Entertainment Group, UK-2007-present

Development of mobile and web applications and administration of web servers. During this position I shipped a number of digital comic and retail based iOS applications, including an app that made it to #3 on the free apps list. I developed app code and backend services for all apps.

Mobile developer (freelance), Bravo Tango Bravo, Australia — 2008-2014 Development of three iOS apps for different clients. I was able to offer fast turn arounds on apps with frequently changing requirements. As a one off project I also developed a mobile game.

Assistant IT Manager, Titan Entertainment Group, UK — 2006-2007 Management of a team of IT support personnel. The IT support team performed installation of PCs and services running MacOS, Linux and Windows operating systems. My role also included server development.

IT Support, Titan Entertainment Group, UK — 2005-2006
Assisting users with problems related to graphical design and office applications running on Mac and Windows platforms. Installation of desktop machines.

Education

Universitat Autònoma de Barcelona, Spain Ph.D. in Mathematics, 2010-2014. Thesis titled "Triangular bases of integral closures."

Escoles Universitàries Gimbernat i Tomàs Cerda, Spain Masters in Multimedia Design, 2009-2010

Universitat Autònoma de Barcelona, Spain
Masters in Computational Science & Engineering, 2008-2010

Monash University, Australia
Bachelors of Digital Systems, 2002-2004

Publications

Bauch, Jens-Dietrich; Nart, Enric; Stainsby, Hayden D. "Complexity of OM factorizations of polynomials over local fields." LMS Journal of Computation and Mathematics, 2013, pp. 139-171.

Stainsby, Hayden; Taboada, Manel; Luque, Emilio. "Agent-Based Simulation to Support Decision Making in Healthcare Management Planning." HEALTHINF, 2010.

Stainsby, Hayden; Taboada, Manel; Luque, Emilio. "Towards an Agent-Based Simulation of Hospital Emergency Departments." IEEE International Conference on Services Computing, (SCC '09), 2009, pp. 536 – 539.

Stainsby, Hayden; Muresano, Ronal; Fialho, Leonardo; González, Juan Carlos; Rexachs, Dolores; Luque, Emilio. "Teaching Model for Computational Science and Engineering Programme." International Conference on Computer Science (ICCS '09), 2009, pp. 34-43.

Participation in research groups

Effective methods in arithmetic geometry (MTM2013-40680-P) - 2013-present

Department of Mathematics, Universitat Autònoma de Barcelona (Project leader: Enric Nart).

Combinatoric methods in arithmetic geometry and algebraic geometry (MTM2009-10359) — 2010-2013

Department of Mathematics, Universitat Autònoma de Barcelona (Project leader: Enric Nart).

High Performance Computation and its application in computational science & engineering (TIN2007-64974) — 2008-2010 "Simulation of hospital emergency departments." Department of Computer Architecture and Operating Systems, Universitat Autònoma de Barcelona

Languages

English (mother tongue), Spanish (fluent), Catalan (intermediate), German (basic).

References

References available on request.

(Project leader: Emilio Luque).