



Andrea Franceschini

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nationality Italian

work experience

January 2016 – present

role **Post Doctoral Research Associate**

institution **Computer Laboratory**, University of Cambridge, UK

summary Research and development for **Isaac Physics**. I am currently researching the impact of the platform using **DfE exam results**, and developing strategies to improve engagement and impact. I developed a web-based entry system for symbolic formulas with which I am currently researching the learning outcome of different question formats. I also perform maintenance and infrastructure development for the website.

November 2016 – present

role **Post Doctoral Research Associate**

institution **Robinson College**, University of Cambridge, UK

summary Teaching Supervisor for the Computer Science tripos (see teaching experience below)

2006 – present

role **Freelance interaction designer and software developer** (iOS, web)

activities **Web sites**, mostly for the classical music industry

iOS applications, mostly small- to mid-sized projects such as exhibition guides, citizen engagement, interactive books for children, and casual games

some clients **Sintetik, Kina** (see last page)

some technologies Drupal, CakePHP, Ruby on Rails, iOS SDK

teaching experience

October 2016 – present

role **Teaching Supervisor**

institution **Robinson College**, University of Cambridge, UK

courses **Programming in C and C++** (2016/17)

October 2011 – November 2011

role **Full-time teacher**

school **Istituto di Istruzione Superiore di Lonigo**, Italy

course A035, Electrical Engineering and Applications

October 2002 – June 2010

role **Private tutor** (high school, university)

courses Mathematics, Computer Science, Electronics, Electrical Engineering

education

April 2012 – February 2016

degree **PhD** in Computing (Sound and Music Computing, HCI)

institution **The Open University**, UK

thesis title Learning to use melodic similarity and contrast for narrative using a Digital Tabletop Musical Interface

summary Working with musicians and educators, I developed and studied a tangible user interface for music education, as well as educational activities for around it. The evaluation was conducted using a mix of qualitative and quantitative methods.

supervisors Dr Robin Laney, Mr Chris Dobbyn

December 2006 – June 2010

degree **Laurea Magistrale** (MSc) in Computer Science and Engineering

institution **Università di Padova**, Italy

thesis title A practical approach to Music Theory on the Reactable

summary A primarily theoretical curriculum, complemented with courses relevant to the digital arts, such as Sound and Music Computing, 3D Data Processing, and Image Processing.

advisor Prof. Giovanni De Poli

October 2008 – March 2009

Erasmus, research and development on the Reactable

institution **Universitat Pompeu Fabra**, Music Technology Group, Spain

summary I developed a proposal for improving the Reactable's approach to tonal music.

supervisor Sergi Jordà

October 2002 – December 2006

degree **Laurea** (BSc) in Computer Science and Engineering

institution **Università degli Studi di Padova**, Italy

courses and certifications October 2015 – December 2015

course **Machine Learning**

institution Coursera (Stanford University)

October 2015

course **Learn to Code for Data Analysis**

institution FutureLearn (The Open University)

professional qualifications February 2011

certificate **Authorisation to practice as Information Engineer** (equivalent to Chartered Engineer, UK)

institution **Ordine degli Ingegneri della Provincia di Vicenza, Italy**

skills

research **user research** ethnographies, surveys, focus groups...

UX prototyping, iterative design, behaviour design and analysis, graphical and tangible user interfaces...

programming **experienced** C, C++ (C++11, Qt), Objective C, Processing, Pure Data, HTML, PHP, Ruby

familiar SuperCollider, JavaScript, XML, SQL, x86 and ARM assembly

learning R, Julia, Swift

organisation some experience in managing small groups

artistic **experienced drummer** (studio and live, teaching), basics of guitar, and piano

familiar with **audio recording and mastering** techniques

basics of **composition and songwriting** (classical, pop, experimental)

author of **comic strips and illustrations** (paper, pencil, Adobe Photoshop and Illustrator)

film and digital photographer, experienced in digital processing, acquainted with chemical film processing and printing

other languages

English **fluent** (speaking, reading, writing)

Spanish **fluent** (reading, writing), **intermediate** (speaking)

References

selected clients and works

Freelance and own work

- **Circular Bells**, musical toy – appsto.re/i6S564b
- **Aranaboo**, casual game for children
commissioned and published by Diego Corsi – appsto.re/i6SR4Jm
End-to-end development. The game uses face detection as a major gameplay element.
- **Crusade Bleeding Score Calculator**, medical specialist utility
1800+ units sold until November 2015 – appsto.re/i6SR4JJ – goo.gl/qHdhtV

Sintetik – www.sintetik.it

- **Da grande voglio fare l'astronauta**, interactive children book
story and graphics by Fausto Montanari – on.be.net/1FE26u2
I developed the app for iPad, but the client never published it.
- **Vinitaly**, catalogue and guide
published by Verona Fiere – appsto.re/i6SG3fj
I worked on backend development and client-server communication.

Reale Corte Armonica – www.realecortearmonica.it

Roberto Zarpellon – www.robtozarpellon.it

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| programming | www.github.com/Morpheu5 |
| research | www.andreafranceschini.org |
| music | soundcloud.com/ilmoppe |
| video | www.youtube.com/user/therealmorpheu5 |
| other skills | www.morpheu5.net |

publications

refereed papers A. Franceschini, R. Laney, C. Dobbyn (2016), Sketching music: making music through exploring art. In *Proceedings of Sempre: Music, Education, Technology*, London, UK

A. Franceschini, R. Laney, C. Dobbyn (2014) [Learning musical contour on a tabletop](#). In *Proceedings of the joint ICMC-SMC 2014*, Athens, Greece.

A. Franceschini (2010) [Towards a practical approach to music theory on the Reactable](#). In *Proceedings of SMC 2010*, Barcelona, Spain.

posters A. Franceschini, R. Laney, C. Dobbyn (2014) [Sketching Music](#). *ICMC-SMC 2014*, Athens, Greece

A. Franceschini, R. Laney, C. Dobbyn (2013) [A study of contour in music using digital tabletop musical instruments](#). *DMRN+8*, London, UK.

magazine articles Series of tutorials on Drupal, covering configuration, templating, and module development. In *Linux&C*, 73, 74, 75. Piscopo Editore.

Series of tutorials on Inkscape, covering basic and advanced vector graphic techniques. In *Linux&C*, 65, 67. Piscopo Editore.

talks

Music lessons on a tabletop. Invited seminar, 26 September 2014
Experimental Music Lab, Università di Trento, Italy