

Samuel Balco

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PhD Computer Science student with good coding and problem solving skills

Education

University of Leicester

PhD in Computer Science

- Working on efficient proof tactics for display calculi
- Was one of the organizers of [MGS 2017](#), a graduate school in Computer Science.

LEICESTER, UNITED KINGDOM

October 2016 – present

University of Oxford

Master's degree in Computer Science

Final thesis on formalizing intersection types along with proofs of subject invariance for the λ -Y calculus. The thesis and code is available on [GitHub](#).

OXFORD, UNITED KINGDOM

October 2015 – September 2016

University of Leicester

Bachelor's degree in Computer Science (1st class)

- Achieved 85+% on most of the taken modules
- Dissertation on formalizing display calculi in Isabelle/HOL and building a supporting toolbox for reasoning about their properties in Isabelle
- Dissertation presented at the [ALCOP 2015](#) conference in Delft

LEICESTER, UNITED KINGDOM

September 2012 – June 2015

Achievements and Awards

University of Leicester

Final Year Project Prize

Computer Science Departmental prize for best third year student

2nd Year Project Prize

Joint award for the best software engineering group project

Computer Science Departmental prize for best second year student
on the BSc/MComp Computer Science Programmes

LEICESTER, UNITED KINGDOM

June 2015

June 2015

June 2014

June 2014

Work Experience

University of Leicester

Graduate Gateways Internship

This internship was as an extension to the work on the final year project on building an Isabelle and Scala toolbox for working with display calculi. The toolbox, developed with [Prof. Alexander Kurz](#) during my final BSc year and the graduate internship, is freely available on [GitHub](#).

Summer Research Project (EPSRC bursary)

Received a university grant to work on formalizing simple syllogistic logics in Isabelle under the supervision of [Prof. Alexander Kurz](#) and [Dr. Tom Ridge](#) for 10 weeks during the summer break. A tutorial on the basics of Isabelle, based on the work done on the project, is available on [GitHub](#).

LEICESTER, UNITED KINGDOM

July 2015 – September 2015

June 2014 – August 2014

Skills

Programming languages: Haskell, Isabelle/HOL, Agda, Scala, Java, Python

Languages: Slovak/Czech (*native speaker*), English (*native speaker*), German (*elementary proficiency*)

Interests

Electronics (Arduino, Raspberry Pi), [hacking](#) (former member of the Nottingham hackerspace [Nottinghack](#)) and DIY (working with a laser cutter, 3D printer, interested in metalworking, etc.), swimming, skiing and playing tennis and the trumpet.

References

[Prof. Alexander Kurz](#) - Professor at University of Leicester ak155@le.ac.uk • +44 (0) 116 252 5356

[Dr. Tom Ridge](#) - Lecturer at University of Leicester tr61@le.ac.uk • +44 (0) 116 223 1304