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Programming

C ○
PHP ○
C++ ○
Python ○
Javascript ○
SuperCollider ○

Scripting

CSS ○
LaTeX ○
HTML ○

Platforms

Mac OS ○
Windows ○
Arch Linux ○
Git / GitHub ○

Languages

German (B1.2) ○
English (native) ○

Joshua Blinkhorn

Postdoctoral Researcher in Artificial Intelligence

Profile I am a self-motivated, hard-working and passionate individual. I hold a PhD. in *proof complexity*, at the intersection of logic, artificial intelligence and computational complexity. My specialism is *quantified Boolean formulas*, which express winning strategies in two-player games like chess and Go.

Skills My best skill is my ability to learn new skills quickly in an immersive fashion. I have been fascinated by mathematics and computing from an early age, so most of my concrete abilities lie in these areas.

Goals As a scientist I sit on the bridge between theory and practice; having the skills to appreciate both areas, I believe they can only thrive mutually. At this point in my career, I would like to find a practical outlet for my knowledge and research in theoretical computer science.

Recent Academic Timeline

University of Jena, Germany *Since December 2019*
I hold a postdoctoral research position in the Computer Science Institute.

University of Leeds, UK *September 2015 - December 2019*
I obtained a PhD. in proof complexity from the School of Computing.

Open University, UK *September 2008 - June 2015*
I obtained a first-class Batchelor of Science in Mathematics, with average marks of 98% (coursework) and 96% (examinations).

Teaching and Lecturing

QBF: Solving and Proofs Summer 2021, FSU Jena
I wrote and presented this postgraduate course of lectures.

Cryptology Summer 2020, FSU Jena
I directed students in the implementation of cryptosystems and cryptanalysis in C++ and Python.

SAT Solving Summer 2019 & Winter 2020/21, FSU Jena
I oversaw students' development of satisfiability solving tools in a language of their choice, predominantly C++ and Python.

Procedural Programming Autumn 2105 & 2017, Leeds University
I worked as lab session demonstrator and coursework marker in this introductory course on the C language.

Publications

I have co-authored eleven conference publications at six computer science venues, including the *International Joint Conference on Artificial Intelligence* and *Logic in Computer Science*, both of which have the top CORE ranking 'A*'. I was the main author of the best paper at the *International Conference on Theory and Applications of Satisfiability Solving*, which has CORE ranking 'A'. I have also co-authored six journal publications. For more details, see my DBLP list or my academic CV.