

THOMAS ARCHBOLD

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BACKGROUND

I am a Ph.D. student at King's College London where I am part of the Distributed Artificial Intelligence group. My research interests are in algorithmic game theory and mechanism design, as well as other areas of theoretical computer science such as algorithms and complexity theory.

EDUCATION

MPhil/Ph.D. Computer Science, King's College London **2020-2024 (expected)**
Research interests: algorithmic game theory, mechanism design, theoretical computer science
Supervisor: Professor Carmine Ventre

MSc. Computer Science, University of Warwick **2019-2020**
Classification: Distinction
Dissertation title: *A Decentralised Peer-Prediction Market* (awarded distinction)

BSc. (Hons) Computer Science, University of Warwick **2016-2019**
Classification: 2-1
Dissertation title: *An Educational Kernel for the Raspberry Pi* (awarded first class)

WORK EXPERIENCE

Graduate Teaching Assistant, King's College London **Jan 2021-present**
– 6CCS3OME Optimization Methods 2020/21

Private Tutor **Oct 2020-present**
Tutor for GCSE Computer Science. Involves planning and delivering one-on-one lessons, delivering feedback, and collectively deciding on which topics to focus.

Software Graphics Engineer Intern, Imagination Technologies, Kings Langley **Jul 2019-Sep 2019**
Worked with the PowerVR Vulkan driver team researching Google's ANGLE API to analyse its performance on the driver, and wrote OpenGL ES and Vulkan programs to test specific areas of its functionality.
Contributed driver code and was involved in weekly team meetings to discuss progress and plans for the coming week.

POSITIONS OF RESPONSIBILITY

Seminar Organiser, Distributed Artificial Intelligence group, King's College London **Jan 2021-present**
Help to organise the fortnightly seminar within the Distributed Artificial Intelligence research group, which involves contacting internal and external speakers to present talks on their work and chairing the meetings.

Conference Student Volunteer
– International Colloquium on Automata, Languages, and Programming (ICALP) Jul 2021

Conference sub-reviewer
– Algorithmic Decision Theory (ADT) Jun 2021

Presenter, International Conference for Undergraduate Research 2018 **Sep 2018**
Presented an individual research project on "Cellular Automata and Computational Universality" at the ICUR.
Produced an introductory primer on cellular automata and their applications as well as software to visualise them.

LANGUAGES AND SKILLS

Programming Languages	C, C++, Python, Lisp, Java, Bash
Tools	Pandas, Numpy, Sklearn, Keras, GDB, Valgrind, Git, L ^A T _E X
Languages	French (B2/upper intermediate) Russian (B1/intermediate)

WIDER ACTIVITIES AND ACHIEVEMENTS

First XV Player of the Season, University of Warwick RFC	2019/20, 2018/19
UWRFC First XV, QE Boys Rugby First XV, QE Boys Cricket First XI	2016-20, 2014-16, 2015-16

REFERENCES

Available upon request