

Maria Kallia
PhD Student
School of Education, Communication & Society



Qualifications

Education, Master of Education, The effects of computer programming on students' problem solving, reasoning skills and self-efficacy in Mathematics, University of Roehampton
2012 → 2014

Award Date: 1 Sept 2014

Informatics, Master in Science, Test Data generation with concolic and symbolic execution
2008 → 2009

Award Date: 31 Dec 2009

Informatics, Bachelor of Science
2003 → 2008

Award Date: 28 Aug 2008

Qualified Teacher Status, QTS

Employment

Computer Science Teacher in Greek secondary public school

28 Nov 2015 → 30 Jun 2016

Computer Science Teacher in Vocational Education School

13 Oct 2010 → 31 May 2011

Teacher of Computer Programming in Private Tutoring School for National Exams

5 Oct 2010 → 30 Jun 2016

Computer Science Teacher in the Institution of Continuing Adult Education

5 Oct 2010 → 30 Jun 2015

Research output

Supporting Computing Educators to Create a Cycle of Teaching and Computing Education Research

Brown, N., Cutts, Q., Kallia, M., Maguire, J., McNeill, F. & Porter, L., 2 Sept 2021, *UKICER 2021 - Proceedings of the 2021 Conference on United Kingdom and Ireland Computing Education Research*. Association for Computing Machinery, 11. (ACM International Conference Proceeding Series).

Learning to use Functions: The Relationship Between Misconceptions and Self-Efficacy

Kallia, M. & Sentance, S., 22 Feb 2019, *SIGCSE 2019 - Proceedings of the 50th ACM Technical Symposium on Computer Science Education*. Minneapolis, p. 752-758 7 p. (SIGCSE 2019 - Proceedings of the 50th ACM Technical Symposium on Computer Science Education).

Are boys more confident than girls? The role of calibration and students' self-efficacy in programming tasks and computer science

Kallia, M. & Sentance, S., 3 Oct 2018, *Proceedings of the 13th Workshop in Primary and Secondary Computing Education: WIPSCSE '18*. 4 p.

Assessment of Computer Science: Computer Science Education Perspectives on Teaching and Learning in School

Sentance, S., Selby, C. & Kallia, M., Mar 2018, *London, Bloomsbury*. London

Computing Teachers' Perspectives on Threshold Concepts: Functions and Procedural Abstraction

Kallia, M. & Sentance, S., 10 Nov 2017, *Proceedings of the 12th Workshop in Primary and Secondary Computing Education: WIPSC '17*.

Assessment in Computer Science courses: A Literature Review

Kallia, M., Nov 2017, Royal Society.

The effects of computer programming on high school students' reasoning skills and mathematical self-efficacy and problem solving

Kallia, M. & Psycharis, S., Oct 2017, In: *INSTRUCTIONAL SCIENCE*. 45, 5, p. 583–602 45.

Other Research output

Psycharis, S., Kallia, M. (2017) The effects of Computer programming on high school students' reasoning skills and mathematical self-efficacy and problem-solving. *Instructional Science*, 45:5, 583-602. Springer.

Papadakis, M., Malevis, N. and Kallia, M., 2010, May. Towards automating the generation of mutation tests. In *Proceedings of the 5th Workshop on Automation of Software Test* (pp. 111-118). ACM