

ANGELIKI KOLOVOU

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WORK EXPERIENCE

April 2015 – September 2016: Researcher and coordinator of the design of e-books for mathematical creativity in MC Squared project

Educational Technology Lab, University of Athens & CTI and Press Diophantus, Greece

2013 – present: Primary school teacher

Greek Ministry of Education, Athens, Greece.

2012 – 2013: Secondment to the Faculty of Primary Education, University of Athens, Greece (office of the professor of Mathematics Education).

2011 – 2012: Primary school teacher

Greek Ministry of Education, Athens, Greece.

2011 – 2012: Visiting researcher

Freudenthal Institute for Science and Mathematics education, Utrecht University, the Netherlands.

2007 – 2011: Full-time researcher

Freudenthal Institute for Science and Mathematics education, Utrecht University, the Netherlands.

2006 – 2007: Visiting researcher

Freudenthal Institute for Science and Mathematics education, Utrecht University, the Netherlands.

2004 – 2007: Teacher of Greek as a second/foreign language

Greek Ministry of Education, Department of Greek Language, Utrecht, the Netherlands.

2001 – 2004: Primary school teacher

Greek Ministry of Education, Athens, Greece.

EDUCATION

2007 – 2011: PhD in Mathematics Education

Freudenthal Institute for Science and Mathematics Education, Utrecht University, the Netherlands.

1998 – 2000: Master's Degree in Mathematics Education

Department of Mathematics and Informatics, Faculty of Primary Education, University of Athens, Greece.

1993 – 1997: Bachelor in Educational Sciences - Primary Education

Faculty of Primary Education, University of Athens, Greece.

KEY PUBLICATIONS

2016

Kynigos, C., & Kolovou, A. (in press). Teachers as designers of digital educational resources for creative mathematical thinking. *13th International Congress on Mathematical Education*. Hamburg, Germany.

Daskolia M., Kolovou A., & Kynigos C. (2016). Social Creativity in the Design of Digital Resources Interweaving Math with Environmental Education - The Case Study of the Climate Change C-Book. In

Proceedings of the 8th International Conference on Computer Supported Education (Vol. 2 , pp. 134-143). Rome, Italy. DOI: 10.5220/0005810101340143

Kolovou A., & Daskolia M. (2016). A socio-technical environment affording social creativity in the design of digital education resources for Math and Environmental Education. In A., Mikropoulos, N., Papachristos, A., Tsiara, & P. Chalki (Eds.) *Proceedings of HICICTE 2016, the 10th Pan-Hellenic and International Conference "ICT in Education"*. Ioannina, Greece: Hellenic Association of ICT in Education, University of Ioannina.

2013 Boufi, A., Kolovou, A., & Gravemeijer K. (2013). Teachers' problem-solving activity as a support for reconceptualizing their pedagogical reasoning in teaching multiplication. In K.G. Karras, P. Calogiannakis, C. C. Wolhuter & N. Andreadakis (Eds.), *Proceedings of the First International Symposium on Education and Teacher Education Worldwide: Current Reforms, Problems and Challenges* (pp. 119–128). Rethymno, Greece: University of Crete.

Van den Heuvel-Panhuizen, M., Kolovou, A., & Robitzsch, A. (2013). Primary school students' strategies in early algebra problem solving supported by an online game. *Educational studies in Mathematics*, 84(3), 281–307.

Kolovou, A., Van den Heuvel-Panhuizen, M., & Köller, O. (2013). An intervention including an online game to improve grade 6 students' performance in early algebra. *Journal for Research in Mathematics Education*, 44(3), 510–549.

2012 Kolovou, A., Van den Heuvel-Panhuizen, M., & Köller, O. (2012). Working with an online game as an entry point to algebraic thinking. In *Proceedings of the 12th International Congress on Mathematical Education* (pp. 2042-2051). Seoul, Korea.

2011 Kolovou, A. (2011). *Mathematical problem solving in the primary school*. (Doctoral dissertation). Utrecht: Freudenthal Institute for Science and Mathematics Education, Faculty of Science, Utrecht University.

Kolovou, A., & Van den Heuvel-Panhuizen, M. (2011). An online game as a learning environment for early algebraic problem solving by upper primary school students. In M. Pytlak, T. Rowland, & E. Swoboda (Eds.), *Proceedings of the Seventh Congress of the European Society for Research in Mathematics Education* (pp. 2248-2257). University of Rzeszów, Poland: European Society for Research in Mathematics.

Van den Heuvel-Panhuizen, M., Kolovou, A., & Peltenburg, M. (2011). Using ICT to Improve Assessment. In B. Kaur (Ed.), *Assessment in Mathematics: Yearbook 2011*, Association of *Mathematics Educators* (pp. 165-185). Singapore: World Scientific and AME.

2010 Kolovou, A., & Van den Heuvel-Panhuizen, M. (2010). Online game-generated feedback as a way to support early algebraic reasoning. *International J. Continuing Engineering Education and Life-Long Learning*, 20(2), 224–238.

- 2009 Kolovou, A., Van den Heuvel-Panhuizen, M., & Bakker, A. (2009). Non-routine problem solving tasks in primary school mathematics textbooks-A needle in a haystack. *Mediterranean Journal for Research Mathematics Education* 8(2), 29–66.
- Elia, I., Van den Heuvel-Panhuizen, M., & Kolovou, A. (2009). Exploring strategy use and strategy flexibility in non-routine problem solving by primary school high achievers in mathematics *ZDM – The International Journal on Mathematics Education*, 41, 605–618.
- Kolovou, A., Van den Heuvel-Panhuizen, M., & Elia, I. (2009). An online ICT environment to support and assess primary school students' solving of non-routine puzzle-like mathematical word problems. In Tzekaki, M., Kaldrimidou, M., & Sakonidis, H. (Eds.) *Proceedings of the 33rd Conference of the International Group for the Psychology of Mathematics Education*, (Vol. 3, pp 385–392). Thessaloniki, Greece: PME.

PRESENTATIONS

- 2012 *Working with an online game as an entry point to algebraic thinking*. Paper presentation at the 12th International Congress on Mathematical Education (Seoul, Korea, July 8 – 15, 2012).
- 2011 *An online game as a learning environment for early algebraic problem solving by upper primary school students*. Paper presentation at the CERME 7 conference (Rzeszów, Poland, February 9 – 13, 2011).
- 2009 *An online ICT environment to support and assess primary school students' solving of non-routine puzzle-like mathematical word problems*. Research report presentation at the PME 33 conference (Thessaloniki, Greece, July 19 – 24, 2009).
- 2008 *An ICT environment to assess and support students' mathematical problem-solving performance in non-routine puzzle-like word problems*. Paper presentation at the 11th International Congress on Mathematical Education (Monterey, Mexico, July 6 – 13, 2008).

MASTER CLASSES

Interuniversity Centre for Educational Research, the Netherlands:

Assessment for future learning
(January 12, 25, 26, 2011; February 9, 2011)

Socio-cultural and cultural-historical theory and research
(March 1 – 3 and 16 – 17, 2010)

Teacher and Teaching Education
(January 18 – 20 and 28 – 29, 2010).

Qualitative Research Methodology
(June 8 – 10 and 22 – 23, 2009).

LANGUAGES

English
Cambridge Certificate of Proficiency in English

Dutch
Diploma of Dutch as a Second Language - Program II (NT2-II)

SCIENTIFIC ASSOCIATIONS

Interuniversity Centre for Educational Research (ICO), the Netherlands
Association for Educational Research (VOR), the Netherlands
Hellenic Association of ICT in Education, Greece
Greek Association for Research in Mathematics Education

RESEARCH INTERESTS

Mathematical Problem Solving by (upper) primary school students
ICT in the teaching and learning of mathematics
Early algebra
Teacher Education