

CURRICULUM VITAE

SONIA KAFOUSSI

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UNDERGRADUATE STUDIES

University of Athens, Greece, Department of Mathematics, 1990

POSTGRADUATE STUDIES

University of Athens, Greece, Ph.D. in Didactics of Mathematics, 1995

ACADEMIC EXPERIENCE

2009-present: Associate professor, Didactics of Mathematics, Department of Sciences of Preschool Education and of Educational Design, University of the Aegean, Greece

2004-2009: Assistant professor, Mathematics and Statistics in Education, Department of Sciences of Preschool Education and of Educational Design, University of the Aegean, Greece

2000-2004: Lecturer, Mathematics and Statistics in Education, Department of Sciences of Preschool Education and of Educational Design, University of the Aegean, Greece

PROFESSIONAL SOCIETIES/ INTERNATIONAL COMMITTEES

Hellenic Mathematical Society, Greek Pedagogical Society, Greek Statistical Institute, International Association for Statistical Education (IASE), International Commission for the Study and Improvement of Mathematics Education (CIEAEM), Greek Association of Researchers in Mathematics Education (GARME)

EDITORIAL BOARDS

Euclid c (in greek), Mathematical Review (in greek), Journal for Mathematics in Education (international)

RESEARCH INTERESTS

Didactics of Mathematics, History of Mathematics Education, Didactics of Statistics and Probabilities

SELECTED PAPERS

International Journal Publications

Petros Chaviaris & Sonia Kafoussi (2010). Developing students' collaboration in a mathematics classroom through dramatic activities. *International Electronic Journal of Mathematics Education*, 5(2), 92-111.

Sonia Kafoussi, Petros Chaviaris & Rijkje Dekker (2010). Factors that influence the development of students' regulating activities as they collaborate in mathematics. *International Journal for Mathematics in Education (in press)*

Fesakis,G., Kafoussi, S. & Malisiova,E. (2010). Intuitive conceptions of kindergarten children about the two dice sum problem, through the use of a microworld. *International Journal for Technology in Mathematics Education (in press)*

Chrysanthi Skoumpourdi, Sonia Kafoussi & Konstantinos Tatsis (2009). Designing Probabilistic Tasks for kindergartners. *Journal of Early Childhood Research*, 7(2), 155-174.

Konstantinos Tatsis, Sonia Kafoussi & Chrysanthi Skoumpourdi (2008). Kindergarten children discussing the fairness of probabilistic games: The creation of a primary discursive community. *Early Childhood Education Journal*, 36 (3), 221- 226.

Chaviaris, P., Kafoussi, S. & Kalavassis F. (2007). Pupils' meta-discursive reflection on mathematics: a case study. *Teaching Mathematics and Computer Science*, 5(1), 147-169.

Kafoussi, S. (2004). Can kindergarten children be successfully involved in probabilistic tasks? *Statistics Education Research Journal*, vol. 3(1), 29-39

Sonia Kafoussi & Evagelos Ntziahristos (2001). In-service teachers' training: the case of fractions. *Mathematics, Informatics & Physics*, Vol.1, 127-138.

Greek Journal Publications

Sonia Kafoussi, Chrysanthi Skoumpourdi, & Konstantinos Tatsis (2009). Analyzing a mathematics school textbook: The case of first grade. *Euclid c*, 71, 42-62.

Chrysanthi Skoumpourdi & Sonia Kafoussi (2009). Oscar and Lisa discuss about shapes with kindergarten children. *Journal of Contemporary Education*, 156, 125-135.

Sonia Kafoussi (2008). Subitizing of children 3-6 years old. *Research in Didactics of Mathematics*, 2, 9-28.

Sonia Kafoussi, Chrysanthi Skoubourdi & Fragiskos Kalavasis (2008). Gender and mathematics: necessity of a global renegotiation of mathematics in education. *Euclid c*, 69, 23-39.

Chaviaris, P. & Kafoussi, S. (2007). Metacognitive processes and social interaction among students in mathematics: the case of school textbooks in fifth and sixth grades. *Teaching of Sciences: Research and Practice*, 20-21, 59-65.

Stathopoulou, C. , Kafoussi, S. & Chaviaris, P. (2006).The relationship between school failure and mathematics education. *Themes in Education*, 7(2), 179-196.

Kafoussi, S. (2005). The evolution of research problems in mathematics learning and teaching in primary school. *Euclid c*, 63,16-30

Ntziahristos, E. & Kafoussi, S. (2003). Parents, students, teachers and mathematics. *Mathematical Review*, 60, 63-84

Kalavassis, F., Kafoussi, S., Stathopoulou, H. & Kapelou, K. (2002). The teaching of mathematics in primary education in Egypt, Greece, Cyprus, and Lebanon. *Themes in Education*, 3, 2-3,155-166

- Kafoussi, S. & Ntziahristos, E. (2000). Teachers' beliefs about teaching aids in elementary mathematics. *Euclid c*, 53-54, 17,102-114
- Kafoussi, S. & Ntziahristos, E. (2000). The role of teaching aids for the learning and teaching of mathematics. *Mathematical Review*, 53, 62-72
- Kafoussi, S. (1999). Fifth and sixth grade students' ideas about the concept of probability. *Mathematical Review*, 52, 31-41
- Kafoussi, S. & Ntziahristos, E. (1998). Mathematical knowledge of third grade students on place value, addition and subtraction of three-digit numbers. *Mathematical Review*, 49-50, 205-217
- Kafoussi, S. & Ntziahristos, E. (1996). Solving addition and subtraction problems: children's capabilities entering primary school. *Mathematical Review*, 45, 54-66
- Boufi, A. & Kafoussi, S. (1995). Helping pre-service teachers to teach mathematics: the role of practical exercises. *Euclid c'*, 44, 12, 15-33
- Kafoussi, S. (1994). Errors in learning and teaching of arithmetical operations. *Euclid c*, 39, 41-57

International Conference Publications

- Ada Boufi & Sonia Kafoussi (1991). Teachers' conceptions of students' mathematical errors and conceived treatment of them. *Proceedings of the Fifteenth International Conference on the Psychology of Mathematics Education (PME)*, vol. I, 176-183. Ed. Fulvia Furinghetti, Assisi, Italy.
- Ada Boufi & Sonia Kafoussi (1993). Learning opportunities in an in-service teacher development program. *Proceedings of the Seventeenth International Conference on the Psychology of Mathematics Education (PME)*, vol. II, 207-214. Eds. Ichiei Hirabayashi, Nobuhiko Nohda et al., Tsukuba, Ibaraki, Japan.
- Francois Kalavassiss & Sonia Kafoussi (1999). The influence of teachers' beliefs of different levels of education on students' mathematical culture. *Proceedings of CIEAEM 51*, "Cultural Diversity in Mathematics (Education)", 217-222. Eds. A. Ahmed, J.- M. Kraemer & H. Williams, Horwood Publishing, Chichester.
- Sonia Kafoussi & Evangelos Ntziahristos. (2001). An assessment of Greek students' knowledge on place value concepts and whole number operations. *Proceedings of thirtieth Spring Conference of the Union of Bulgarian Mathematicians*, "Mathematics and Education in Mathematics", 297-303. Borovets.
- Sonia Kafoussi (2002). Learning opportunities in a kindergarten about the concept of probability. *Proceedings of the 26th International Conference on the Psychology of Mathematics Education (PME)*, "Learning from Learners", vol. 3, 161-168. Eds. A. Cockburn & E. Nardi, UEA, Norwich.
- Sonia Kafoussi (2003). Discussing about the concept of probability in a kindergarten classroom. *Proceedings of the 3rd Mediterranean Conference on Mathematical Education*, 459- 465. Eds. A. Gagatsis & S. Papastavridis, Athens, Hellas.

- Sonia Kafoussi, Chrysanthi Skoubourdi & Francois Kalabassis (2003). An analysis of Greek school textbooks' pictorial representations about multiplication. *Proceedings of CIEAEM 55*, "The use of didactic materials for developing pupil's mathematical activities". Poland.(in press)
- Petros Chaviaris & Sonia Kafoussi (2003). Small group students' involvement in a mathematical activity and its relation to their beliefs about cooperation. *Proceedings of CIEAEM 55*, "The use of didactic materials for developing pupil's mathematical activities". Poland.(in press)
- Petros Chaviaris & Sonia Kafoussi (2005). Students' reflection on their sociomathematical small-group interaction: a case study. *Proceedings of the 29th Conference of the International Group on the Psychology of Mathematics Education (PME)*, Vol. 2, 241-248. Eds. H. L. Chick & J. L. Vincent, Melbourne.
- Sonia Kafoussi (2005). Parents' and teachers' interaction concerning students' mathematics learning. *Proceedings of CIEAEM 57*, "Changes in society: A challenge for Mathematics Education", 221-225. Italy.
- Sonia Kafoussi (2006). Parents' and students' interaction in mathematics: designing home mathematical activities. *Proceedings of CIEAEM 58*, "Changes in society: A challenge for Mathematics Education", 209-214. Czech Republic.
- Sonia Kafoussi & Chrysanthi Skoumpourdi (2006). Teachers' evaluation about students' errors in probability and their didactical interventions. *Proceedings of CIEAEM 58*, "Changes in society: A challenge for Mathematics Education", 58-63. Czech Republic.
- Chrysanthi Skoumpourdi, Konstantinos Tatsis & Sonia Kafoussi (2007). Kindergarten children's informal knowledge about probability. *Proceedings of CIEAEM 59*, "Mathematical activity in classroom practice and as research object in didactics: two complementary perspectives", 59-63. Hungary (invited for semi-plenary session)
- Konstantinos Tatsis, Sonia Kafoussi & Chrysanthi Skoumpourdi (2008). Discussing on the fairness of probabilistic games: The creation of a discursive community with kindergarten children. *Proceedings of CME 08 (Children's Mathematical Education)* Poland. In B. Maj, M. Pytlak, E. Swoboda (Eds.), Supporting independent thinking through mathematical education. Rzeszów: University of Rzeszów, 167-173
- Sonia Kafoussi (2009). Designing intercultural instructional tasks for kindergarten classrooms with pre-service teachers. *Proceedings of CIEAEM61*. Montreal, Canada
- Evangelos Mokos, Petros Chaviaris, Sonia Kafoussi (2009). Metacognitive skills and different kinds of mathematical problems at fourth grade. *Proceedings of CIEAEM61*. Montreal, Canada
- Georgios Fesakis & Sonia Kafoussi (2009). Kindergarten children capabilities in combinatorial problems using computer microworlds and manipulatives. *Proceedings of the 33rd Conference of the International Group for the Psychology of Mathematics Education(PME)*, "In Search for Theories in Mathematics Education", vol. 3, 41-48. Eds. M. Tzekaki, M. Kaldrimidou, H. Sakonidis, Thessaloniki, Greece.

Greek Conference Publications

- Chrysanthi Skoumpourdi, Konstantinos Tatsis & Sonia Kafoussi (2009). The involvement of mathematics in everyday activities and games: Parents' views. *Proceedings of the 3rd*

Conference of Association of Researchers in Mathematics Education, 131-140.

Petros Chaviaris & Sonia Kafoussi (2009). Communication between school and family through worksheets in Mathematics: a case study. *Proceedings of the 3rd Conference of Association of Researchers in Mathematics Education*, 181-191.

Mokos, E., Kafoussi, S. & Kalavasis, F. (2008). Research about metacognition and learning mathematics. *Proceedings of the 5th International Meeting of Didactics of Mathematics*, Crete

Georgios Fesakis & Sonia Kafoussi (2008). The development of combinatorial thinking of kindergarten children with the help of ICT. *Proceedings of the 6th Hellenic Conference of ICT in education*, 129-136, Cyprus.

Skoumpourdi, C. & Kafoussi, S. (2008). The development of mathematical discussion through picture book reading in preschool age. *Proceedings of the H' Hellenic Conference*, 524-533. Athens

Mokos, E. & Kafoussi, S. (2008). Methodological approaches for the study of students' metacognitive activities in mathematics. *Proceedings of the 25th Hellenic Conference of Mathematics Education*, 419-433.

Kafoussi, S. & Skoumpourdi, C. (2007). Decomposing numbers and posing verbal addition and subtraction problems with kindergarten children. *Proceedings of the 2nd Conference of Association of Researchers in Mathematics Education*, 326-335.

Skoumpourdi, C. & Kafoussi, S. (2006). The attrition rate in association with students' gender and mathematical performance. *Proceedings of 23rd Greek Conference of Mathematics Education*, 583-595, Patra.

Kafoussi, S., Skoumpourdi, C. & Kalavassis, F. (2005). Parents' and teachers' beliefs about the informal knowledge of kindergarten children in mathematics. *Proceedings of the First Conference of Association of Researchers in Mathematics Education*, 313-321

Kapelou, K. & Kafoussi, S. (2003). Approaching the concept of natural number as an operator in a kindergarten school. *Proceedings of the 20th Hellenic Conference of Mathematics Education*, 211-221.

Chaviaris, P., Kafoussi, S. & Kalavassis, F. (2003). Methodological tools for the analysis of social interaction in mathematics classroom. *Proceedings of the Second Conference for Mathematics in Secondary Education*, Athens (CD-ROM).

Kafoussi, S. & Ntziahristos, E. (2003). Parents' beliefs about mathematics in primary school. *Proceedings of the 20th Hellenic Conference of Mathematics Education*, 264-273.

Kafoussi, S. & Skoumpourdi, C. (2002). Students' abilities in probability concept in kindergarten. *Proceedings of the 15th Conference on Statistics*, 339-346, Ioannina.

Kafoussi, S. (2002). Discussing about the history of mathematics in classroom. *Proceedings of the 19th Hellenic Conference of Mathematics Education*, 175-184.

Kafoussi, S. & Chaviaris, P. (1999). Teachers' beliefs about the learning and teaching of mathematics in primary education. *Proceedings of the 16th Hellenic Conference of Mathematics Education*, 169-176.

Kafoussi, S. & Ntziahristos, E. (1996). Children's capabilities in counting, entering primary school. *Proceedings of the 1st Hellenic Conference of Mathematics Education*, 291-308. University of Athens

Boufi, A. & Kafoussi, S. (1993). Communication among students in classroom: its role on in-service teachers' reflection about issues concerning mathematics teaching. *Proceedings of the 9th Hellenic Conference of Mathematics Education*, 140-155

BOOKS

Kafoussi, S. & Skoumpourdi, C. (2008). *Young children's (4-6 years old) Mathematics*. Patakis editions, Athens (in greek)

Kalavassis, F., Kafoussi, S., Skoumpourdi, C. Kapelou, K., Stathopoulou, H., Chaviaris, P. & Kokkalidis, S. (2006). *Interaction between school failure and mathematics education*. Athens, Greece (in greek)

Lemonidis, C., Kapsalis, A, Kafoussi, S. & Boukalas, P. (1999). *Mathematics for the first grade: a book for the student*. P.I. Greece (in greek)

Lemonidis, C., Kapsalis, A, Kafoussi, S. & Boukalas, P. (1999). *Mathematics for the first grade: a book for the teacher*. P.I. Greece (in greek)

CHAPTERS IN BOOKS

Kalavassis, F., Kafoussi, S., Skoumpourdi, C. (2008). Connecting research for teaching and learning mathematics with school practice. In B. Svolopoulos (Ed.), *Connecting Educational research and practice*, pp. 87-96. Atrapos editions. Athens (in greek)

Kafoussi, S. (2007). Interaction between school and family in mathematics education. In F. Kalavasis & A. Kontakos (Eds.), *Themes of Educational Design*, pp. 267- 281. Atrapos editions. Athens (in greek)

Kafoussi, S. (2005). Parents, students and emotions about mathematics. In H. Papailiou, G. Xanthakou & S. Chatzihristou (Eds.), *Educational School Psychology* (pp. 72-78). Athens, Atrapos (in greek)

Kafoussi, S. & Kaila, M. (2003). In-service teachers' training in mathematics: balancing between theory and practice. In P. Fokiali, B. Triarhi –Herrmann & M. Kaila (Eds.), *Issues on teachers' in- service training and further education* (pp. 621-633). Dillingen Academy, Munchen- University of the Aegean, Rhodes. Atrapos editions. Athens

Kafoussi, S. (2002). The history of mathematics as a source of creating activities in primary education. In M. Kaila, F. Kalavassis & N. Polemikos (Eds.), *Intercultural approach of Myths, Mathematics and Learning Disabilities in the Information Society* (pp.145-153). University of the Aegean, Rhodes.

Kafoussi, S. (2002). Errors as a start point for a reform in school mathematics. In N. Polemikos, M. Kaila & F. Kalavassis (Eds.), *Educational, Parental and Political Psychopathology* (pp. 156-170). Atrapos editions. Athens (in greek)

MONOGRAPHS - RESEARCH REPORTS

Kafoussi, S. & Ntziahristos, E. (1997). *The mathematical knowledge of first grade students*. University of Athens, Greece. (in greek)

Kafoussi, S. & Ntziahristos, E. (1997). *The mathematical knowledge of second grade students*. University of Athens, Greece. (in greek)

Kafoussi, S., Kapelou, K. & Stathopoulou, H. (2001). *Intercultural approach of Myths, Mathematics and Learning Disabilities in the Information Society: A comparative study of school mathematics in Egypt, Greece, Cyprus, and Lebanon*. University of the Aegean, Rhodes (in greek).

RESEARCH PROGRAMS

2000-2001: INTERREGII, *Intercultural approach of Myths, Mathematics and Learning Disabilities in the Information Society*, University of the Aegean, University of Athens, Lebanese American University, University of Egypt, Cyprus University (Member)

2004-2007: PYTHAGORAS, *Interaction between school failure and mathematics education*, University of the Aegean, Coordinator

2006-2008: INTERREG III A GREECE-CYPRUS: *The digital world of preschool education*, University of the Aegean, University of Crete, Cyprus University (Coordinator for the University of the Aegean)