

Curriculum Vitae

Fani STYLIANIDOU

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Education:

1984-90 University of Athens, Greece
1991-92 Institute of Education, University of London
1993-2001 Institute of Education, University of London

Degrees and Qualifications:

	Subject	University	Classification	Year
BSc	Physics	Athens	Lian Kalos (7.7/10)	1990
MA	Science Education	London	Distinction	1992
PhD	Science Education	London	N/A	2001

My thesis is entitled "Learning about energy and processes of change: An investigation of novel aspects of a curriculum intervention".

I am fully qualified to teach Physics in a secondary school in both Greece and the UK (DFE number RP92/5864).

Languages:

Greek, English, French and Spanish

Scholarships / Awards:

1993-1995 "Alexander S. Onassis" Scholarship
1995-1996 British Council Fellowship
1996-1997 British Federation of Women Graduates
Charitable Foundation Grant

Research Experience:

1992-1997 I assisted in the research project 'Energy and Change' which was conducted at the Institute of Education, University of London, under the direction of Prof. Jon Ogborn and Richard Booahan. The project was funded by the Nuffield Foundation. As part of my PhD thesis I carried out an evaluation of the teaching approach and materials developed by this project.

- 1998-2001 Research Fellow at the Institute of Education, University of Sussex, working for the European Project ‘Science Teachers’ Training in an Information Society’ (STTIS) (EC - DGXII Contract SOE2 CT97 2020 - Project Co-ordinator: Roser Pintó, Universitat Autònoma de Barcelona)
- 2001- Research Officer at the University of the Aegean in Greece, working for the European Project ‘ModellingSpace: A space for ideas’ expression, modelling and collaboration for the development of imagination, reasoning and learning’ (IST-2000-25385).

Teaching Experience:

School: I am qualified to teach science at secondary level in both Greece and the UK and have experience of teaching school age children in both countries. During the fieldwork for my Ph.D. I taught a small number of lessons to cover for absent teachers and acted as a participant observer in many others.

In March 2001, I participated in the project WEBBRITTe, funded by the DfEE. The project had as its remit to evaluate on-line teaching plans and materials.

University: In Greece I have taught information technology on a postgraduate course for serving teachers and at the Institute of Education I have given occasional sessions for both PGCE and Masters students of science education. During the spring term of 1999 I was responsible for delivering a course on ‘Exploratory Data Analysis’ to the full-time Masters students of information technology.

Meetings / Conferences at which presentations/papers were presented:

July 1993	First PhD Summerschool in Science Education <i>Paper presentation</i>	Utrecht, The Netherlands
January 1994	ASE Annual Meeting	Birmingham, UK
April 1995	European Conference on Research in Science Education <i>Poster presentation</i>	Leeds, UK
December 1995	EU/Tempus meeting <i>Talk given</i>	Ljubljana, Slovenia
January 1996	ASE Annual Meeting <i>Talk given</i>	Reading, UK
March 1996	NSTA Annual Convention	St. Louis, USA
April 1996	NARST Annual Conference	St. Louis, USA
April 1996	7th Panhellenic Conference on Physics <i>Paper presentation</i>	Irakleio, Greece
August 1996	GIREP-ICPE International Conference ‘New ways of teaching physics’ <i>Paper presentation</i>	Ljubljana, Slovenia
August 1997	7th European Conference for Research on Learning and Instruction <i>Paper presentation</i>	Athens, Greece

September 1997	First International Conference of the European Science Education Research Association (ESERA) on 'Science Education Research in Europe' <i>Paper presentation</i>	Rome, Italy
May 1998	First Panhellenic Conference on 'Science Education and Applications of New Technologies in Education' <i>Paper presentation</i>	Thessaloniki, Greece
January 1999	ASE London Regional Meeting <i>Talk given</i>	London, UK
March 1999	NARST Annual Conference <i>Paper presentation</i>	Boston, USA
September 1999	Second International Conference of the European Science Education Research Association (ESERA) on 'Research in Science Education - Past, Present and Future' <i>Paper presentation in symposium</i>	Kiel, Germany
January 2000	ASE International Conference on the 'Teaching of energy' <i>Paper presentation</i>	Leeds, UK
April 2000	First European Conference On Modern Education: 'Applications of Innovations in Education' Organised by the Centre for Research and Development of Ziridis School <i>Invited Plenary Talk</i>	Athens, Greece
May 2000	Second Panhellenic Conference on 'Science Education and Applications of New Technologies in Education' <i>Paper presentation</i>	Nicosia, Cyprus
August 2000	GIREP-ICPE International Conference 'Physics teacher education beyond 2000' and PTTIS (Physics Teacher training in an Information Society) Conference <i>Paper presentation in symposium</i>	Barcelona, Spain
March 2001	NARST Annual Conference <i>Paper presentation</i>	St. Louis, USA
August 2001	Third International Conference of the European Science Education Research Association (ESERA) on 'Science Education Research in the Knowledge Based Society' <i>Paper presentation in symposium</i>	Thessaloniki, Greece

Publications

- Stylianidou, F. (1993) 'The concept of energy and its teaching' in Lijnse P.L. (ed.) *European research in science education: Proceedings of the first Ph.D. Summerschool* (Utrecht: CD-b Press, Centrum voor b-Didaktiek), pp 255-258.
- Stylianidou, F. (1995) 'Teaching about physical, chemical and biological change' Paper presented at the *European Conference on Research in Science Education*, Leeds, UK, April 1995.
- Stylianidou, F. (1997) 'A unified approach for the teaching of physical, chemical and biological processes and of energy in the light of the Second Law of Thermodynamics' in the *Proceedings of the 7th Panhellenic Conference on Physics*, Irakleio of Crete, Greece, April 1996 - (In the Greek language), pp 22-25.
- Stylianidou, F. (1997) 'Learning about energy and processes of change' in Oblak S, Hribar M, Luchner K and Munih (eds) *New ways of Teaching Physics: Proceeding of the GIREP-ICPE International conference*, August 1996, Ljubljana, Slovenia (Ljubljana: Board of Education of Slovenia), pp 389-392.
- Stylianidou, F. (1997) 'Children's learning about energy and processes of change', *School Science Review*, 78, 286, pp 91-97.
- Stylianidou, F. (1997) 'Children dealing with abstract similarities between different processes of physical and chemical change' Paper presented at the *7th European Conference for Research on Learning and Instruction*, Athens, Greece, August 26-30, 1997.
- Stylianidou, F. and Boohan, R. (1997) 'Exploring pupils' learning about the nature of change using an abstract picture language' Paper presented at the *First ESERA International Conference on 'Science Education Research in Europe'*, Rome, Italy, September 2-6, 1997.
- Stylianidou, F. and Boohan, R. (1998) 'Understanding Why Things Happen: Case-Studies of Pupils Using an Abstract Picture Language to Represent the Nature of Changes', *Research in Science Education*, 28, 4, pp 447-462.
- Stylianidou, F. and Boohan, R (1999) 'Pupils Reasoning About the Nature of Change Using an Abstract Picture Language', Paper presented at the NARST Annual Meeting, Boston, USA, March 28-31, 1999.
(<http://www.narst.org/conference/stylianidouboohan/stylianidouboohan.html>)
- Stylianidou, F. and Boohan, R. (1999) 'How do children learn about physical, chemical and biological changes using a language of abstract pictures', in the Koumaras, P, Kariotoglou, P, Tselves, V and Psillos D (eds) *Proceedings of the First Panhellenic Conference on 'Science Education and Applications of New Technologies in Education'*, Thessaloniki, Greece, May 29-31, 1998. (Thessaloniki: Christodoulides Publications), pp 345-351 (In the Greek language). ISBN 960-7577-24-8

- Stylianidou, F. and Ogborn, J. (1999) 'Teaching about energy in secondary schools: teachers' transformations of a curriculum innovation' Paper presented as part of the symposium 'Science teacher training in an information society (STTIS) 1: Teachers' use of innovative sequences' at the *Second International Conference of ESERA on 'Research in Science Education: Past, Present, and Future'*, Kiel, Germany, August 31 - September 4, 1999. (See also next publication)
- Stylianidou, F. and Ogborn, J. (1999) 'Teaching about energy in secondary schools: The case of two innovations and teachers' transformations of them'. In Komorek, M., Behrendt, H., Dahncke, H., Duit, R., Gräber, W., Kross, A. (Eds) *Proceedings of the Second International Conference of ESERA on 'Research in Science Education: Past, Present, and Future'*, Kiel, Vol.2, pp 450-453. (<http://www.ipn.uni-kiel.de/projekte/esera/book/s057+sty.pdf>).
- Stylianidou, F. and Ogborn, J. (1999) *Teachers' transformations of innovations: the case of teaching 'Energy' in English secondary schools*, STTIS (Science Teacher Training in an Information Society) UK National Report on Work Package 3, European Commission DG XII - TSER: CT97 2020 (co-ord: R. Pintó, Universitat Autònoma de Barcelona), University of Sussex, Institute of Education, UK.
- Stylianidou, F. and Ogborn, J. (1999) *Teachers using computer modelling and simulation in the science classroom: the English case*, STTIS (Science Teacher Training in an Information Society) UK National Report on Work Package 1.2, European Commission DG XII – TSER : CT97 2020 (co-ord: R. Pintó, Universitat Autònoma de Barcelona), University of Sussex, Institute of Education, UK.
- Stylianidou, F., Ormerod, F. and Ogborn, J. (2000) *Difficulties in teaching and learning with pictorial representations*, STTIS (Science Teacher Training in an Information Society) UK National Report on Work Package 2, European Commission DG XII - TSER: CT97 2020 (co-ord: R. Pintó, Universitat Autònoma de Barcelona), University of Sussex, Institute of Education, UK.
- Stylianidou, F., Ogborn, J., Andresen, O., Balzano, E., Giberti, G., Gutiérrez, R., Kolstø, S. D., Monroy, G., Pérez, O., Pintó, R., Quale, A., Rebmann, G., Sassi, E. (2000) *The nature of use by science teachers of informatic tools*, STTIS (Science Teacher Training in an Information Society) Transversal Report on Work Package 1.2. European Commission DG XII - TSER: CT97 2020 (co-ord: R. Pintó, Universitat Autònoma de Barcelona), University of Sussex, Institute of Education, UK. (See also next publication).
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- Boohan, R., Stylianidou, F and Ogborn J (2000) *Training teachers for innovation: energy transfer and the direction of change*, STTIS (Science Teacher Training in an Information Society) UK National Report on Work Package 5 (part 1), European Commission DG XII – TSER: CT97 2020 (co-ord. R. Pintò, Universitat Autònoma de Barcelona), University of Sussex, Institute of Education, UK
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- Stylianidou, F. and Ogborn, J. (2001) ‘Teaching about energy in English secondary schools: teachers’ transformations of a national curriculum innovation’ Paper presented at the NARST Annual Meeting, St. Louis, USA, March 25-28, 2001.
- Stylianidou, F., Ormerod, F., Ogborn, J. (2001) ‘Reading Physics textbook pictures about ‘energy’: pupils’ difficulties and teachers’ reactions’. In Pintó, R. and Surinach, S. (eds) *International Conference on ‘Physics Teacher Education Beyond 2000’. Selected contributions*. (Paris: Elsevier Editions), pp153-157. ISBN. 2-84299-312-8
Also in Pintó, R. and Surinach, S.(eds) *Proceedings of the GIREP-ICPE International Conference on ‘Physics Teacher Education Beyond 2000’*. Barcelona, Spain, August 27 - September 1, 2000. (Barcelona: CD Production Calidos). ISBN: 84-699-4416-9
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- Stylianidou, F., Ormerod, F. and Ogborn, J. (2002) ‘Analysis of science textbook pictures about ‘energy’ and pupils’ readings of them’ *International Journal of Science Education*, 24, 3, pp 257-283.

Stylianidou, F. (2002-in press) 'Innovations in the teaching of energy: their transformation in the classroom' in the *Proceedings of the Second Panhellenic Conference on 'Science Education and Applications of New Technologies in Education'*, Nicosia, Cyprus, May 3-5, 2000. (In the Greek Language).

Stylianidou, F. (in press) 'Teachers' transformations of innovations' in the *Proceedings of the First European Conference on Modern Education 'Applications of Innovations in Education'*, Centre of Research and Development, Ziridis School, Athens, Greece, April 15-16, 2000. (In the Greek Language).

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