Zacharoula Smyrnaiou

Associate Professor
School of Philosophy – Faculty of Educational Studies
with cognitive subject
«Contemporary Learning Theories and Science Education »
Vice President of the B.O.D. of
(Government Gazette 204 / 16.02.2021)

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Studies:

- BA in Science (1991–1995, NKUA)
- MSc in Informatics (1997–1999, NKUA)
- (D.E.A) in Science Education (Teaching Science Specialisation), (1999–2000, Université Paris V (Sorbonne), France)
- Doctorate Degree in Science Education specializing in the use of ICT Tools in Science Education (Thèse de Doctorat) (Dissertation title: 'Modelling - the contribution of educational software, 2000–2003, Université Paris V (Sorbonne), France).

Main scientific / research interests:

- Planning, Designing and Use of digital tools and appropriate didactic approaches in learning various subject domains.
- Contemporary theoretical frameworks such as instrumental genesis, representation (mental, embodies, or through a semiotic system), connectionism, mobile learning etc.
- Innovative approached to learning and teaching (Creativity, Embodied Learning, Interest, Argumentation, game-based learning, socio- emotional learning, work- based learning and connection of education to workplaces, theories of transversal skills)
- Developing Research fields in Science Education such as STEM, STEAM, and Neuro-education
- Basic Approaches to Science Teaching such as inquiry-based learning and creativity-enriched inquiry-based learning.
- Responsible Research and Innovation and Science with and for Societies (Swafs).
- Planning tools for Qualitative Research.

Teaching during the current period:

(α) Undergraduate courses :

- Educational Psychology (or Educational Psychology Applications)
- Contemporary learning theories
- Neuroscience and Education
- Science and/for Society

(β) Postgraduate courses:

- "Educational Curricula, Teaching, Learning and Assessment" *Theory, Practice and Evaluation of the Educational Practice (NKUA)*
- "Science Education" in Postgraduate Program in Digital Transformation and Educational Practice (UNIWA-NKUA- ASPETE)
- "Scientific research" in Postgraduate Program in Digital Transformation and Educational Practice (UNIWA-NKUA- ASPETE)
- "Teaching Methodology" Doctoral Programme Course, Dental School, *(NKUA)*

Participation in research programs:

- **2020-2023**: "Loop". Scaffolding in Teachers Development: Mentoring and Mentors in Induction Programs. Funding body: European Union, Erasmus+

- **2021-2022**: - Mobility for learners and staff – Higher Education Student and Staff Mobility (2021-2022) National and Kapodistrian University of Athens (As. Prof. Z. Smyrnaiou) & UNIVERSITE SAVOIE MONT BLANC (Prof. Christophe Roche), Funding body: European Union, Erasmus+ Programme Key Action 1

- **2020-** «Kids University» in the context of the implementation of the Operation- "Innovation Center of the Attica Region" by the Regional Development Funds (RPFs) with Code Number OPS, (MIS) 5030984- ΕΠ «Attica 2014-2020». Funding body: Decentralised Administration of Attica

- **2020 Platform 21+ Lab'** project of the Institute of Educational Policy (IEP) (http://iep.edu.gr/en/; http://iep.edu.gr/el/psifiako-apothetirio/skill-labs).

- **2018-2019** "In- Service Training of Teachers in the Utilisation and Application of Digital Technologies in the Teaching Practice, B- Level ICT Teacher Training)". Funding body: European Union, Erasmus+: ΕΣΠΑ

- **2015-2018**: 'CREATIONS', Funding body: European Union, Horizon 2020, H2020-SEAC-2014-1 CSA (Project No: 665917)

- **2015-2018**: 'DESCI'. Developing and Evaluating Skills for Creativity and Innovation. Funding body: European Union, Erasmus+

- **2014-2017**: 'PLAY4GUIDANCE'. Funding body: European Union, Erasmus+

- **2014-2020**: 'Learning Science Through Theater2' (http://lstt2.weebly.com/), that runs in the framework of Creations project). National Project in collaboration with Science View.

- **2014-2016**: 'European Student Parliaments on Science2'. National Project in collaboration with Science View.

- **2014-2015**: "Design of Educational and Informational Guide and Material & Training Studies Program" the implementation of which has been assigned to KESD by the Contracting Authority, the Ministry of Education and Religions. "Development and Operation of a Network for the Prevention and Response of School Violence and Bullying"

Selected Recent Publications:

1. Smyrnaiou Z., E. Georgakopoulou, S. Sotiriou (2020). Promoting Scientific Creativity through Digital Story Telling. International Journal of STEM Education 7 (1), 1-22, 2020. 1, 2020.

2. Valente A, Pennacchiotti, C., Smyrnaiou, Z. et al. (2019). Seeking co-production of knowledge in alternating training: insights from DESCI first round of world cafés. J. Phys.: Conf. Ser. 1286 012056, pp. 1-8.

3. Smyrnaiou Z., Georgakopoulou E., Sotiriou M., Sotiriou S. (2017). The Learning Science Through Theatre initiative in the context of Responsible Research and Innovation. Journal on Systemics, Cybernetics and Informatics (JSCI), vol. 15, n 5, pp. 14-22, http://www.iiisci.org/journal/sci/Contents.asp?var=&Previous=ISS1705

4. Smyrnaiou, Z., Petropoulou, E., Menon, S., Zini, V. (2017). The Innovative Implementation of Evaluation Mechanisms on the P4G Business Game. International journal of mathematics and computers in simulation, vol. 11, pp. 75-84.

5. Smyrnaiou Z., Sotiriou M., Sotiriou S. (2017). What Does Scientific Theatre Do? Toward an Inquiry- based and Semiotic Theory through a Cultural approach. International Journal of Education and Learning Systems, vol. 2, pp. 47-58.

6. Kotsari K., Smyrnaiou, Z. (2017). Inquiry based Learning and Meaning Generation through modelling on geometrical optics in a constructionist environment. European Journal of Science and Mathematics Education Vol. 5, No. 1, 14-27.

7. Ζαχαρούλα Γ. Σμυρναίου (2017). Νέες εξελίξεις στις σύγχρονες θεωρίες μάθησης στη διδασκαλία και στη μάθηση διαφορετικών γνωστικών αντικειμένων, Ηρόδοτος, Αθήνα, 2017, σελ., 928, ISBN 978-960-485-196-6, κωδικός στον Εύδοξο 68407051

8. Riopel, M. et Smyrnaiou, Z. (Eds.) (2016). New Developments in Science and Technology Education. New York: Springer. 220 p. (Based on the proccedings of NDSTE conference).

9. Smyrnaiou, Z., Riopel, M. et Sotiriou, M. (Eds.) (2016). Recent Advances in Science and Technology Education, Ranging from Modern Pedagogies to Neuroeducation and Assessment. Newcastle upon Tyne: Cambridge Scholars Publishing. 390 p. (Based on the proccedings of NDSTE conference).

10. Σμυρναίου, Ζ., Αργύρη, Π., Γεωργακοπούλου, Ε. (2020). Ενίσχυση της Κοινωνικής και Συναισθηματικής Μάθησης μέσω διαμεσολαβητικών ψηφιακών εργαλείων στην μετά-κορωνοϊό εποχή. International Journal of Educational Innovation (2)-6 σελ. 149-200.

Detailed CV