

## **SORT CURRICULUM VITAE**

### **GEORGIOS KORAKAKIS**

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#### **Studies**

- BA in Graphic Arts Technology Department, Faculty of Graphic Arts and Fine Studies, Technological Educational Institute of Athens
- BA in Chemistry - Department of Chemistry, National and Kapodistrian University of Athens
- M.Sc. from the Interuniversity Master's Program "Chemistry Teaching Chemistry Didactics and New Educational Technologies", Department of Chemistry, National and Kapodistrian University of Athens,
- PhD from the School of Chemical Engineering, National Technical University of Athens.

#### **Teaching experience**

- 2022-2023 Collaborating educational staff (SEP member), Hellenic Open University (EAP), School of Humanities, Postgraduate Programme of Studies " Education and Technologies in Distance Teaching and Learning Systems – Educational Sciences (ETA)" , course "Digital Media in Education and Communication" (ETA62).
- 2012-2022 Collaborating educational staff (SEP member) of the (EAP) Hellenic Open University for the supervision of Diploma Thesis theses in the Master's study program "Graphic Arts and Multimedia" (27 Diploma Thesis).
- 2019-2022 Scientific staff at the School of Applied Arts & Culture, Department of Graphic Design and Visual Communication of the University of Western Attica in the courses: Image Processing II (Theory) Interactive Multimedia (Theory), Interactive Multimedia (Lab) Interactive Design (Interaction) (Lab) Prepress and Technologies I, PREMEDIA (Lab)
- 2014 -2018 Hourly Laboratory Associate Technological Educational Institute of Athens, School of Art Studies, Department of Graphic Design in the courses: Multimedia Application Design (E), Image Processing I (E), Multimedia Technology (E).
- 1997-2005 Hourly Laboratory Associate Technological Educational Institute of Athens, at the School of Graphic Arts & Artistic Studies, Department of Technology Graphic arts in courses of the Department
- 2009-2010 Auxiliary teaching and laboratory work, in Teaching and Pedagogical courses of the School of Chemical Engineering NTUA (posting at NTUA from the Department of Education as a secondary teacher).
- 2018-2021 Auxiliary project, in the framework of the Specialization New Educational Technologies of the Inter-Institutional Graduate Program "Teaching Chemistry, New Educational Technologies and Education for Sustainable Development" (DIXINET-EAA.), in the courses: a) Application of New Educational Technologies in Educational Practice I, b) Application of New Educational Technologies in Educational Practice II.
- 2005-2022 Secondary Education Teacher in the Graphic Arts specialty at Vocational High School and then in General education as a Chemist.
- 2020-2022 Head of the EKFE (Laboratory Center for Sciences) in the district Omonia, conducting educational teleconferences as the main speaker and creating digital educational material, for Secondary e - teachers of Sciences Education in the Directorate of Secondary Education of Athens (during the period 2020, 2021, 2022), suitable for distance education of the Chemistry course. The educational and digital material is posted on the EKFE website ( [http://ekfe-omonoias.att.sch.gr/ekfe\\_omonoias/](http://ekfe-omonoias.att.sch.gr/ekfe_omonoias/))
- 1997-2005 Instructor in public and private Vocational Training Institutes in the specialties Graphic Designer of Electronic Form Design - Teleinformatics - Multimedia - IT specialist

(technician) with multimedia - Technician of Animated Image and Electronic Form Design - Form and Electronic Media Designer.

**Participation in funded research projects, indicatively:**

- Associate Educator at the DIOFANTOS Institute of Computer Technology & Publications, supervised by the Ministry of Education, Research & Religious Affairs, in the framework of the "Digital Educational Platform, Interactive Books and Repository of Learning Objects" project. Design and creation of digital interactive material, selection and/or adaptation of suitable existing material to enrich the electronic format of Primary and Secondary Education Chemistry textbooks, maintenance and updating of the digital interactive material developed to enrich the electronic format of Chemistry textbooks.
- Development of digital services in the library of NTUA "ARIADNI" - Creation of digital material for the undergraduate course "SOLID STATE CHEMISTRY" of the School of Chemical Engineering NTUA,
- Educational material for online teaching and management of three Pedagogical-Didactic courses of National Technical University of Athens, the School of Chemical Engineering, EPEAEKII.

**Author work:**

- "*Carbon A*". Comprehensive Chemistry Educational Package for Middle and High School, 2007 edition, (participation in the writing team and editing). YPEPTH, EPEAEKII. ( <http://photodentro.edu.gr/edusoft/r/8531/208> )
- "*Chemical Calculations A*". Integrated Chemistry educational package for Middle School and High School, 2007 edition, (participation in the writing team and editing) YPEPTH, EPEAEKII. ( <http://photodentro.edu.gr/edusoft/r/8531/211?locale=en> )
- "Statistics notes", for the workshop of the Pedagogy II course ( Korakakis , Pavlatou ) , School of Chemical Engineering NTUA ( <https://courses.chemeng.ntua.gr/download/1112> )
- Digital enrichment of textbooks (Natural sciences 5<sup>th</sup> and 6<sup>th</sup> Elementary education, Chemistry course of 2<sup>nd</sup>, 3<sup>rd</sup>, 4<sup>th</sup> and 5<sup>th</sup> Secondary education ) within the framework of the operation "Digital Educational Platform , Interactive Books and Repository of Learning Objects" ( <http://dschool.edu.gr/> )
- Creation of digital material for the undergraduate course "SOLID STATE CHEMISTRY" NTUA. School of Chemical Engineering.
- Educational material for online teaching and management of three Pedagogical and - Didactic courses at NTUA, in the School of Chemical Engineering. (Pedagogy I, Teaching of Natural Sciences and Technology, Pedagogy I I )

**Creation of educational multimedia applications, simulations, indicatively:**

a) Educational multimedia application "Elements of stereoisomerism using multimedia", Department of Chemistry EKPA, Athens, b) Educational multimedia application "Atomic orbitals", NTUA, Laboratory of General Chemistry, Chemical Engineering Computing Center, Athens, 2006 c) Educational multimedia application "Separation of mixtures", NTUA, Laboratory of General Chemistry, Computer Center for Chemical Engineering, Athens, 2006 d) Educational multimedia application "Valence Bond Theory-Hybridization", NTUA, Laboratory of General Chemistry, Computer Center for Chemical Engineering, Athens, 2006 e) Research multimedia application " Chemical Kinetics" for the 2nd High School of Positive Direction. NTUA, General Chemistry Laboratory, Chemical Engineering Computing Center, Athens, 2010.

**Selected articles and announcements:**

- **Korakakis , G. ,** Pavlatou , EA, Palyvos , JA & Spyrellis , N. (2009). 3D visualization types in multimedia applications for science learning: A case study for 8<sup>th</sup> grade students in Greece. *Computers & Education* , 52 (2) , 390–401.  
<https://doi.org/10.1016/j.compedu.2008.09.011>
- **Korakakis , G. ,** Boudouvis , A., Palyvos , J., & Pavlatou , EA (2012). The impact of 3D visualization types in instructional multimedia applications for teaching science. *Procedia - Social and Behavioral Sciences* , 31, 145 – 149.  
<https://doi.org/10.1016/j.sbspro.2011.12.032>
- **Korakakis , G.,** Pavlatou , EA, Palyvos , JA, & Spyrellis , N. “The effect of three types of visualization on a chemistry multimedia application for 12th grade students”. *International Conference of Education, Research and Innovation (ICERI 2008)* , Madrid (Spain) on the 17th, 18th and 19th of November, 2008.
- K. Dalacosta , **G. Korakakis** , E. Pavlatou , “Using multimedia educational games for teaching sciences in Primary and Secondary educational e-books”, *5th International Conference of Education Research and Innovation (ICERI 2012)* , Madrid (Spain), 19 - 21 November 2012, p. 2802-2808, ISBN: 978-84-616-0763-1, ISSN: 2340-1095.

Citations:

[268 Google Scholar](#)

**More announcements and peer-reviewed articles:**

<https://scholar.google.com/citations?user=YYnFCqOAAAAJ&hl=el&oi=ao>