CURRICULUM VITAE

PERSONAL INFORMATION

Name:	Ioannis Vrellis
Work Address:	The Educational Approaches to Virtual Reality Technologies Lab (EARTHLAB) Department of Primary Education University of Ioannina Ioannina, GR 45110, Greece
Position:	Laboratory Teaching Staff
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EDUCATION

2013	**PhD in Electrical and Computer Engineering, University of Patras, Greece** PhD title: 'Evaluation of a laboratory problem-based learning activity in a multi-user virtual environment'
1995	**Diploma in Electrical and Computer Engineering, University of Patras, Greece** Thesis title: 'Development of a wired industrial data network'

LANGUAGES

- Greek (native)
- English (Certificate of Proficiency in English - University of Cambridge)

PROFESSIONAL EXPERIENCE

6/2014 - today	**Laboratory Teaching Staff (EDIP) at the Educational Approaches to Virtual Reality Technologies Lab (EARTHLAB), Department of Primary Education, University of Ioannina, Greece.** • Supporting the educational and research activities of EARTHLAB • Supporting the computational infrastructure of EARTHLAB (pc-lab, file/web servers, AR/VR hardware/software) • Administration of the websites of the Department (https://ptde.uoi.gr) and EARTHLAB (http://earthlab.uoi.gr) • Administration of the scientific journals of the Department (http://epetirida.ptde.uoi.gr, https://ejournals.epublishing.ekt.gr/index.php/thea, based on the Open Journal Systems platform) • Teaching two undergraduate courses "Introduction to ICT in Education I" and "Introduction to ICT in Education II" (2014-today) • Teaching the postgraduate course "Modeling and Simulations in Science Education" (2019-today) • Co-teaching the undergraduate course "STEM education" (2021-today) • Training school teachers in ICT (Funded project, 2019)

12/2002 –   **Special Technical Laboratory Staff (ETEP) at the Educational Approaches to Virtual Reality**
6/2014   **Technologies Lab (EARTHLAB), Department of Primary Education, The University of Ioannina, Greece.**

- Supporting the educational and research activities of EARTHLAB
- Supporting the computational infrastructure of EARTHLAB (pc-lab, file/web servers, AR/VR hardware/software)
- Development and administration of the websites of the Department (https://ptde.uoi.gr) and EARTHLAB (http://earthlab.uoi.gr)
- Production of educational tools for earthquake and natural disaster prevention (DEUCALION Funded Project, 2012-2014)
- Creation of a Virtual World for distance learning for the Hellenic Open University (Funded Project, 2011)
- Training school teachers in ICT (Funded Project, 2008, 2011)
- Multimedia creation for "ESCUTIS Project - Elevating and Safeguarding Culture Using Tools of the Information Society" (INTERREG III funded project, 2006-08)
- Metropolitan fiber optics networks design in cities of the Epirus Region (Funded Project, 2005-08)
- Educational Virtual Environments for Earthquake Precaution (Seismos On Line) (Funded Project, 2004-2005)

1/2000 –   **Network Engineer at the Network Operations Center, University of Ioannina, Greece**
11/2002
- Administration of active network devices (routers, switches, Wi-Fi Access Points)
- Management and technical administration of the "Greek School Network" in the Epirus region
- Design and administration of the wireless data network for schools in Ioannina city

11/1997-   **Military Service, Greece**
5/1999
- High power radio technician at the Technical Corps of the Hellenic Army

10/1995 –   **Electronic Design Engineer**
9/1997   **Department of Electrical and Computer Engineering, University of Patras, Greece**
- Design and development of microcontroller boards for industrial applications (water management)

TRAINING SCHOOLS

10/2017   **Centre for Advanced Visualisation and Interaction – CAVI, Aarhus University, Denmark**
Tangible interaction, Projection Mapping
(LLP/Erasmus Staff Training)

9/2015   **IAS-Lab, Information Engineering Department, University of Padova, Italy**
Educational Robotics
(LLP/Erasmus Staff Training)

8/2013   **Humanities Lab, Lund University, Sweden**
3D scanning, motion capture, eye tracking, EEG
(LLP/Erasmus Staff Training)

8/2012   **g-tec medical engineering, Schiedlberg, Austria**
Biosgnal Acquisition & Analysis, Brain Computer Interfaces
(LLP/Erasmus Staff Training)

7/2011   **VideaLAB - University of A Coruña, Spain**
Computer graphics - Virtual Reality - Mundos Digitales 2011 Conference
(LLP/Erasmus Staff Training)

4/2008	**International training course on "Multimodal Signals: Cognitive and Algorithmic Issues",
Vietri sul Mare, Italy**
(European COST Action 2102).

7/2007	**1st PEACH Summer School**, *"Presence: towards human machine confluence-Presence technologies and Foundations"*, Santorini, Greece
(PEACH - FP6 Coordination Action).

8/1994	**Summer course in Microelectronics, Université Catholique de Louvain, Belgium**
(BEST, Board of European Students of Technology)

PR EXPERIENCE

<u>4/2009</u>	Member of the team representing EARTHLAB at the '3rd PEACH Consultation Meeting' - Edinburgh 15th April 2009 (Peach - FP6 Coordination Action)

<u>9/2008</u>	Member of the team representing the General Secretariat for Research and Technology and the University of Ioannina at the 2008 Thessaloniki International Fair

<u>9/2006</u>	Member of the team representing the General Secretariat for Research and Technology and the University of Ioannina at the 2006 Thessaloniki International Fair

SCIENTIFIC PUBLICATIONS

Koutromanos, G., Vrellis, I., Mikropoulos, T. A., & Sivenas, T. (2024). Teachers' Experience When Using Interactive Applications with Augmented Reality Glasses. In M.-L. Bourguet, J. M. Krüger, D. Pedrosa, A. Dengel, A. Peña-Rios, & J. Richter (Eds.), *Immersive Learning Research Network. iLRN 2023.* (pp. 111-123). Springer. https://doi.org/10.1007/978-3-031-47328-9_8

Iatraki, G., Delimitros, M., Vrellis, I., & Mikropoulos, T. A. (2021, 12-15 July 2021). *Augmented and virtual environments for students with intellectual disability: design issues in Science Education.* Paper presented at the 2021 International Conference on Advanced Learning Technologies (ICALT).

Vrellis, I., Delimitros, M., Chalki, P., Gaintatzis, P., Bellou, I., & Mikropoulos, T. A. (2020, 6-9 July 2020). *Seeing the unseen: user experience and technology acceptance in Augmented Reality science literacy.* Paper presented at the 2020 IEEE 20th International Conference on Advanced Learning Technologies (ICALT).

Antoniou, P., Bamidou, A., Tartanis, I., Vrellis, I., & Bamidis, P. (2019). *From Expert Consulting to Co-creation in Medical Education; Co-creating an Exploratory Educational Space for Orthopedic Medical Education*, Cham.

Papachristos, N. M., Ntalakas, G., Vrellis, I., & Mikropoulos, T. A. (2018). A Virtual Environment for Training in Culinary Education: Immersion and User Experience. In T. A. Mikropoulos (Ed.), *Research on e-Learning and ICT in Education: Technological, Pedagogical and Instructional Perspectives* (pp. 367-380). Cham: Springer International Publishing.

Papachristos, N. M., Vrellis, I., & Mikropoulos, T. A. (2017, 3-7 July 2017). A Comparison between Oculus Rift and a Low-Cost Smartphone VR Headset: Immersive User Experience and Learning. Paper presented at the 2017 IEEE 17th International Conference on Advanced Learning Technologies (ICALT). doi: 10.1109/ICALT.2017.145

Zacharis, G. K., Tsiara, A., Chalki, P., Vrellis, I., & Mikropoulos, T. A. (2016). Brain Activity and Visual Scientific Content: A Study on Earthquake Precaution. In M. Riopel & Z. Smyrnaiou (Eds.), *New Developments in Science and Technology Education* (pp. 31-40). Cham: Springer International Publishing.

Vrellis, I., Avouris, N., & Mikropoulos, T. A. (2016). Learning outcome, presence and satisfaction from a science activity in Second Life. *Australasian Journal of Educational Technology, 32*(1), 59-77. doi: http://dx.doi.org/10.14742/ajet.2164

Ntalakas, G., Papachristos, N., Vrellis, I., & Mikropoulos, T. (2016). *Virtual environments for vocational training: user experience in culinary education.* Paper presented at the 10th Pan-Hellenic and International Conference "ICT in Education", Ioannina, Greece.

Mantziou, O., Vrellis, I., & Mikropoulos, T. A. (2015, June 10-12). *Do Children in the Spectrum of Autism Interact with Real-time Emotionally Expressive Human Controlled Avatars?* Paper presented at the 6th International Conference on Software Development and Technologies for Enhancing Accessibility and Fighting Infoexclusion (DSAI 2015) Fraunhofer FIT, Sankt Augustin, Germany. doi: http://dx.doi.org/10.1016/j.procs.2015.09.268

Zacharis, G. K., Tsiara, A., Chalki, P., Vrellis, I., & Mikropoulos, T. A. (2014, May 29-31). *Brain activity during observation of affective pictures with scientific content.* Paper presented at the 1st International Conference on: New Developments in Science and Technology Education, Corfu, Greece.

Vrellis, I., Moutsioulis, A., & Mikropoulos, T. A. (2014, 7-10 July 2014). *Primary School Students' Attitude towards Gesture Based Interaction: A Comparison between Microsoft Kinect and Mouse.* Paper presented at the Advanced Learning Technologies (ICALT), 2014 IEEE 14th International Conference on. doi: 10.1109/ICALT.2014.199

Papachristos, N. M., Vrellis, I., Natsis, A., & Mikropoulos, T. A. (2014). The role of environment design in an educational Multi-User Virtual Environment. *British Journal of Educational Technology, 45*(4), 636-646. doi: 10.1111/bjet.12056

Vrellis, I., Papachristos, N. M., Natsis, A., & Mikropoulos, T. A. (2012). Presence in a Collaborative Science Learning Activity in Second Life. In A. Jimoyiannis (Ed.), *Research on e-Learning and ICT in Education* (pp. 241-251). New York: Springer.

Natsis, A., Vrellis, I., Papachristos, N. M., & Mikropoulos, T. A. (2012). *Technological Factors, User Characteristics and Didactic Strategies in Educational Virtual Environments.* Paper presented at the IEEE International Conference on Advanced Learning Technologies.

Vrellis, I., Papachristos, N. M., Natsis, A., & Mikropoulos, T. A. (2010). *Measuring presence in a collaborative physics learning activity in Second Life*. Paper presented at the 7th Pan-Hellenic Conference with International Participation "ICT in Education", Korinthos, Greece.

Vrellis, I., Papachristos, N. M., Bellou, J., Avouris, N., & Mikropoulos, T. A. (2010, July 5-7). *Designing a Collaborative Learning Activity in Second Life - An Exploratory Study in Physics.* Paper presented at the 10th IEEE International Conference on Advanced Learning Technologies (ICALT) Sousse, Tunisia. doi: 10.1109/ICALT.2010.65

Messinis, I., Vrellis, I., & Pintelas, P. (2009). Presence in stressful virtual environments. *International Journal of Teaching and Case Studies, 2*(2), 136 - 145.

Mikropoulos, T. A., Chalkidis, A., Koutsikos, El., Strouboulis, V., Vrellis, I. (2005). Educational virtual environments for earthquake precaution. Paper presented at the Fifth International ESERA Conference on Contributions of Research to Enhancing Students' Interest in Learning Science, Barcelona, Spain.