

CURRICULUM VITAE

PERSONAL INFORMATION



Name: Ioannis Vrellis
Work Address: The Educational Approaches to Virtual Reality Technologies Lab (EARTH LAB)
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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 (EARTH LAB), Department of Primary Education, University of Ioannina, Greece.**
- Supporting the educational and research activities of EARTH LAB
 - Supporting the computational infrastructure of EARTH LAB (pc-lab, file/web servers, AR/VR hardware/software)
 - Administration of the websites of the Department (<https://ptde.uoi.gr>) and EARTH LAB (<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 – 6/2014 Special Technical Laboratory Staff (ETEP) at the Educational Approaches to Virtual Reality 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 – 11/2002 Network Engineer at the Network Operations Center, University of Ioannina, Greece**
- 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- 5/1999 Military Service, Greece**
- High power radio technician at the Technical Corps of the Hellenic Army
- 10/1995 – 9/1997 Electronic Design Engineer 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**
Biosignal 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

- 4/2009** Member of the team representing EARTHLAB at the '3rd PEACH Consultation Meeting' - Edinburgh 15th April 2009 (Peach - FP6 Coordination Action)
- 9/2008** Member of the team representing the General Secretariat for Research and Technology and the University of Ioannina at the 2008 Thessaloniki International Fair
- 9/2006** 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

- 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. Smyrniou (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., Moutsoulis, 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.