

## Curriculum vitae

Name	: Goldie
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### Education

- **the 1 DEGREE:** Graduate of department of Methodology of History and Theory of Science, of Athens University with the degree 7,38 (2005) and title of final work ` Disturbances of perception: import in the mystery of delusions and hallucinations which I realised also with supervisor professor Athanassio Tzavara.
- **POSTGRADUATE:** Postgraduate student in the PPS (Program of Postgraduate Study) Cognitive Science, where I continue also studying. The present year (2007) I realise my final work on the subject "Morphological analysis of neurons populations of optical rind from the adulthood in the ageing " in the Biocademy of Athens.
- **the 2 DEGREE:** Student of department of Philosophy of Pedagogics and Psychology in the University of Athens (2007)
- **CERTIFICATE OF STUDIES OF LYCEUM:** Zosimaia Faculty of Ioannina with degree final 17,3 (2000).

### Seminars and congresses

- **Attendance** in seminar on the subject "General Psychopathologia", under the supervision of helping professor of psychiatric Mr Oyli Panagiotis, in the Ajggnitio hospital for interval of seven months (October 2003- May 2004).
- **Attendance** in seminar on the subject "Philosophy Psychiatric", under the supervision of helping professor of psychiatric Mr Oyli Panagiotis, in the Ajggnitio hospital for interval of seven months (October 2003- May 2004).
- **Attendance** in a cycle of lectures that made the department in which I studied all these years (M.H.T.S.of Athens University) on the subject: "Greece and Esperia in the roots of European thought",under the supervision of Mr Petros Gemptos Chairman of department M.H.T.S. and professor of Philosophy of Social Sciences of Athens University,
- **Follow-up** in seminar on the subject "Advisory of Psychology", that was carried out in the Philosophical faculty of Athens University (27-29 November 2003).

- **Follow-up of** first circle of lectures of Postgraduate Seminar under the aegis of Department of Psychiatry of University Jwannj'wnn titled "Social Psychiatry and children psychiatry" (of 19 December 2004).
- **Follow-up** in the 3<sup>rd</sup> Pan-Hellenic Congress of Pedagogic Company Greece on the subject: "GREEK PEDAGOGIC AND EDUCATIONAL RESEARCH", where I was invited by Mr Athanassios E. Papa, professor of University Athens and chairman of Pedagogic Company Greece.
- **Follow-up** European Cognitive Science Conference (23-27 May 2007)
- **Follow-up** σε summer school με θέμα 2nd Peach Summer School 2008 'Presence: Technologies and Applications' with presentation of poster titled 'Presence, Cognitive Processes & Electric Brain Activity In EVEs' (9-11 July 2008 Dubrovnik Croatia)

**Abstract:**

A particular research interest has recently appeared for the study of presence in virtual environments.

As with every activity, presence involves a plethora of cognitive processes. The most important of these, which have been pointed out in several studies, are perception (visual, tactile and hearing), attention (mainly selective), memory (encoding and retrieval), spatial abilities (orientation, location memory, visualization, perception and navigation), learning, emotion (perception and behaviour), and consciousness (self awareness and self perception).

There are a fair number of reports on the connection between presence and the cognitive function of attention, as well as the spatial abilities of mental rotation, spatial perception and navigation.

Presence is characterized as selective attention which refers to the attempt of concentrating in particular information [1]. Moreover, many studies connect presence with the cognitive abilities of mental rotation, spatial perception and navigation [2, 3, 4].

Nevertheless, there is only little previous research on the effects or explanation of presence in terms of brain activity in Educational Virtual Environments (EVEs). It is our goal to find any association of presence with attention, spatial perception and navigation.

Some of our initial findings are that the reduction of alpha rhythms and the increase of gamma rhythm are factors which are related with presence. Also the detection of reduced alpha oscillations and increased beta oscillations are results and indication of visual consciousness and attention, which means low mental attempt [5]. This means that the EVE contributes to cognition transport through the increase of the ability of concentration, observation and judgment [6].

Our research is towards the comparative investigation of attention, spatial perception and navigation as presence factors in both real and virtual environments.

[1] T. Schubert, F. Friedman and H. Regenbrecht, "Decomposing the sense of presence: Factor analytic insights", *Presented at the 2nd International Workshop on Presence*, University of Essex, Coloshester, UK., 1999

- [2] J. R. Lackner and P. Dizio, "Spatial orientation as a component of presence: Insights Gained from Nonterrestrial Environments", *Presence*, 7(2), pp. 108-115, 1998
- [3] W. F. Bischof and P. Boulanger, "Spatial Navigation in Virtual Reality Environments: An EEG Analysis", *Cyberpsychology and Behavior*, 6, pp. 487-496, 2003
- [4] Rizzo, A., Buckwalter, J. G., Larson, P., Rooyen, A. v., Kratz and K., Neumann, "Preliminary findings on a virtual environment targeting human mental rotation/spatial abilities." *Skovde*, Sweden. 1998
- [5] T.A. Mikropoulos, E.Tzimas and G.E. Dimou "Objective Presence Measurement through Electric Brain Activity", *Virtual Reality*, 10, pp. 197 – 206, 2006
- [6] T.A. Mikropoulos, "Brain activity on navigation in virtual environments", *Educational computing research*, 24(1), pp. 1-12, 2001

### **Persons for constitution**

- **Stylianopouloy Photini** , professor of biology in the Nursing Faculty of Athens University
- **Tzavaras Athanassios**, Psychiatrist – Psychoanalyst, professor of department M.H.T.S. of Athens University
- **Skaliora Irine** , Helping professor, and research in the Bioacademy of Athens
- **Oulis Panagiotis** , Helping professor of psychiatry Athens (Ajginitio Hospital)
- **Zolotas Ioannis** , Psychologist of Dromokaitio Hospital

### **Foreigner languages - Knowledge of computers**

1. **French:** I am succeed in five degrees of French (DELF1, DELF2, DELF3, DELF4) as well as Sorbonne 1(Assez Bien) which I continue also be taught.
2. **English:** I am succeed in PET ( with Merit) , and FCE.
3. **Successful:** in the examinations of ECDL CORE: Unities, Windows, Word, Exel, P. Point, Acces and Internet (2004).

### **Inquiring work**

1. **"Morphological' analysis of neurons populations of visual cortex from the adulthood in the ageing (2007)**
2. **"Conceptual change in the mathematics" (2007)**

3. **"Sexual differentiation and cognitive faculties" (2006)**
4. **"Effect of frame in the Wason Selection Task" (2006)**
5. **"Racial differences in the intellectual rotation with the use of neuroimaging method fMRI " (2006)**
6. **"Poverty inequality and discrimination as sources of depression in the women of United States" (2006)**
7. **"Neuronal correspondents of consciousness" (2006)**
8. **"Presentation of places of J. Locke and J. Fodor for the representation, as these result from their theories. "(2006)**
9. **"Disturbances of perception: A import in the mystery of delutions and hallucinations " (2004)**
10. **"Mental illness as form of psychobiological dysfunction" (2003)**
11. **"The crime of rape" (2002)**
12. **"Suicide with medical subscription" (2002)**
13. **"Special edition in Friedrich A. von Hayek "(2002)**
14. **"Presentation of place of judge Tally for the affair of speleologists New Garth " (2002)**