



# PATRYCIA KLAVDIANOS

Candidate to the M.Sc. Program in  
Machine Learning 2018/2019

Rosslyn House  
Flat 6, 236 Kew Road  
Richmond, London, UK  
TW9 3JX



07701 359821 (mobile)  
020 8274 2119 (home)



education@patrycia.co.uk  
www.patrycia.co.uk



## EDUCATION

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- 2012 - 2010: University of Burgundy (UB) – Dijon, France  
**MASTER OF SCIENCE, TECHNOLOGY AND HEALTH, WITH SPECIALTY IN IMAGE, INFORMATICS AND ENGINEERING - ERASMUS MUNDUS PROGRAM, MSC/VIBOT2 (COMPUTER VISION & ROBOTICS)**
- 2010 - 2009: University of Brasilia (UnB) – Brasilia, Brazil  
**POSTGRADUATE DIPLOMA IN CLINICAL ENGINEERING**
- 2007 - 2006: Catholic University of Brasilia (UCB) – Brasilia, Brazil  
**POSTGRADUATE DIPLOMA IN SOFTWARE ENGINEERING**
- August 2006: Catholic University of Brasilia (UCB) – Brasilia, Brazil  
**TECHNICIAN DEGREE IN DATA PROCESSING**

## EXPERIENCE

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- CURRENT-2015: Research Laboratory on Informatics in Healthcare (LIS), University of Brasília (UnB) – Brasília, Brazil  
**RESEARCH ASSISTANT (COMPUTER VISION)**  
Conducts research on the development of a software to assist the treatment of children diagnosed with *Autism Spectrum Disorder* (ASD). Her responsibility is to design and program the NAO Robot's teleoperation module in *Unity 3D* and *C#* by using motion sensors and *Kinect* camera. Participates in the study groups of "*Robotics and Nanorobots*" and "*Informatics Applied to Healthcare and Medicine*".
- 2015 - 2012: Queen Mary, University of London – London, UK  
**RESEARCH ASSISTANT (SYSTEM INTEGRATION & 3D RECONSTRUCTION)**  
Worked on the development of *REVERIE software*, a FP7 European project, for "*Real-Time and Virtual Engagement in Realistic Immersive Environments*". Contributed on the development of a multi-camera calibration tool and 3D reconstruction of scenes and human-like avatars using *C++*, *OpenGL*, *OpenCV*, *QT* and RGBD Microsoft *Kinect* Sensors (version 1 and 2).
- 2010 - 2009: Research Laboratory on Informatics in Healthcare (LIS), University of Brasília (UnB) – Brasília, Brazil  
**RESEARCH ASSISTANT**  
Worked on the development of the "*Anatomical 3D Atlas Applied to the Female Breast*" using *C++* and *OpenGL*, as well as, the design of an ontological model to describe the female breast anatomy structure in *OWL*, *Protégé* and *OWL Java API*. Developed a face recognition tool applying *Active Appearance Model* (AAM) in *MATLAB*, which resulted on a book chapter published by IGI Global in 2013.

- 2010 - 1998: Visual Code Inc. – Brasilia, Brazil  
**ENTREPRENEUR/SENIOR SOFTWARE ENGINEER**  
 Opened a start-up company to provided IT services (software development and systems integration) for industries in Brazil and agencies of the Brazilian Federal Government. Provided training/tutoring on those subjects and on the use of specialised tools for *Service-Oriented Architecture (SOA)* and *Data Mining*, such as: *Oracle Sunopsis ODI Tool* and *Oracle Middleware Integrator*.
- 1998 - 1993: **SOFTWARE ENGINEER/DEVELOPER – Brasilia, Brazil**  
 Worked as a developer for several private companies in Brasília, Brazil. Applied programming skills in *Java*, *Active Server Pages (ASP)* and *Visual Basic*, building desktop and web applications. Worked as a system analyst to document software requirements and help on the design of system architectures.

## TEACHING HISTORY

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- 2010 - 2009: Paulista University (UNIP) – Brasília Campus, Brazil  
**JAVA/C++ TEACHER**  
 Worked as an external instructor, teaching undergraduate students the basics of programming in *Java* and *C++*.
- 2010 - 2009: University UNIEURO – Brasília Campus, Brazil  
**JAVA TEACHER (OBJECT-ORIENTED PROGRAMMING & WEB DEVELOPMENT)**  
 Worked as an external instructor, teaching undergraduate students advanced programming skills in *Java*, such as: Object-Oriented Programming, Web Development with *JavaServer Pages (JSP)* and Software Architecture for the Web.
- 2010 - 2000: Private Companies and Government Agencies in Brasília, Brazil  
**TEACHER (SOA ARCHITECTURE & SYSTEM INTEGRATION)**  
 Worked as an instructor on SOA and system integration tools, such as, *BEA/Oracle BPM Suite*, *Sunopsis/Oracle ODI*, *Oracle Integrator/Fusion Middleware* and *BPEL Process Manager*.
- 2008 - 2007: National Service for Industrial Training (SENAI) – Brasília, Brazil  
**JAVA TEACHER**  
 Delivered training courses in *Java* as part of the *Professional Qualification Program* for members of the industrial sector in Brazil.

### References

DR. LOURDES M. BRASIL  
 lmbrazil@unb.br

DR. GLÉCIA V. S. LUZ  
 gleciavsl@unb.br

### Main Expertise

Java and C++  
 Python  
 MATLAB  
 Computer Vision  
 Software Engineering

### Other Interests

WORK  
 Creativity  
 Innovation  
 Team Work

PLAY  
 Music – Piano  
 Photography  
 Reading

Check some of my work at:  
[www.patryia.co.uk/works/](http://www.patryia.co.uk/works/)

## PUBLICATIONS

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L. I. B. S. Silveira, I. G. S. Silveira, G. V. S. Luz, **P. B. L. Klavdianos**, L. M. Brasil. *Comparison of Virtual Reality engines to Develop Games for Individuals on the Autism Spectrum*. XXVI Brazilian Congress on Biomedical Engineering, Rio de Janeiro, 2018 (paper submitted).

L. M. Brasil, G. V. S. Luz, **P. B. L. Klavdianos**, et al. *Prototyping Nanorobots: A Systematic Review for Applications in Healthcare*. *Nanomedicine: Journal of Nanotechnology, Biology and Medicine*, Elsevier, 2018 (paper submitted).

G.A. Kordelas, P. Daras, **P. Klavdianos**, E. Izquierdo and Q. Zhang. *Accurate Stereo 3D Point Cloud Generation Suitable for Multi-View Stereo Reconstruction*. *IEEE Visual Communications and Image Processing (VCIP)*, 2014.

**P. Klavdianos**, Q. Zhang and E. Izquierdo. *A Concise Survey for 3D Reconstruction of Building Facades*. *Image Analysis for Multimedia Interactive Services (WIAMIS)*, 2013.

**P. Klavdianos**, A. Mansouri and F. Meriaudeau. *Gestalt-inspired features extraction for object category recognition*. 20<sup>th</sup> IEEE International Conference on Image Processing (ICIP), 2013.

H.P. Maffon, L.M. Brasil, J.S. Melo, **P.B. Klavdianos**, G. Curilem and J.M. Lamas. *Modeling the Architecture of an Intelligent Tutoring System Applied to Breast Cancer*. International Conference, Pan American Health Care Exchanges (PAHCE), 2013.

**P.B.L. Klavdianos**, L.M. Brasil and J.S.S Melo. *Face Recognition with Active Appearance Model (AAM)*. Chapter of the book « Robotic Vision: Technologies for Machine Learning and Vision Applications », IGI Global: International Publisher of books, journals and cases related to technology and science, 2013.

**P.B.L. Klavdianos**. *Gestalt-inspired features extraction for object category recognition*. M.S. thesis, Laboratoire Electronique, Informatique et Image (LE2I), University of Burgundy, Auxerre, France, 2012.

**P.B.L. Klavdianos**, M. Parente, L.M. Brasil and J.M. Lamas. *ONTO-MAMA: A Unified Ontology and 3D Graphic Model of the Female Breast Anatomy*. International Conference on Health Informatics (BIOSTEC), 2012, Vilamoura, Algarve, Portugal.

**P.B.L. Klavdianos**, E.K.F. Souza, L.M. Brasil and J.M. Lamas. *ONTO-MAMA: An Ontology of the Female Breast Anatomy Applicable to a Virtual Learning Environment*. International Conference, Pan American Health Care Exchanges (PAHCE), 2011, Rio de Janeiro, Brazil.

**P.B.L. Klavdianos** et al. Ministry of Planning, Budget and Management (e-Ping). *INTEROPERABILITY GUIDE: Technical Manual. Technical Document of the Brazilian Government*, 2011, Brasilia, Brazil.

**P.B.L. Klavdianos** et al. Ministry of Planning, Budget and Management (e-Ping). *INTEROPERABILITY GUIDE: Manager Manual. Technical Document of the Brazilian Government*, 2011, Brasilia, Brazil.

**P.B.L. Klavdianos**, J.M. Lamas and L.M. Brasil. *A Process for Integration of RIS, PACS and Digital Mammography Equipment*. XXII Brazilian Congress of Biomedical Engineering (CBEB), 2010, Tiradentes, Minas Gerais, Brazil.

**P.B.L. Klavdianos**. *A Study for Integration of RIS, PACS and Digital Mammography Equipment*. Postgraduate Dissertation in Clinical Engineering, Gama College (FGA), University of Brasilia (UnB), Brazil, 2010.

**P.B.L. Klavdianos**, L. Neves and C. Melo. *REQBOOK: A Practical Guide for Requirements Engineering*. XIV Workshop of Information Technology at Catholic University of Brasilia, 126-133, 2008, Brasilia, DF, Brazil.

**P.B.L. Klavdianos**. *WRIM-WS: A model based on EBXML to provide the register and repository of Web Services*. Postgraduate Dissertation in Software Engineering, Catholic University of Brasilia (UCB), Brazil, 2007.

E. Franzosi, **P.B.L. Klavdianos**, C. Mesquita and E. Favero. *The Referential Architecture and the e-PING: The Brazilian Government Initiative on SOA*. E-Government Interoperability Campus (eGovInterop), 2007, Paris, France.