

## Overview

### 1. Personal data

**Full Name**

Marielba Silva Zacarias

**Name under which you publish**

Marielba Silva Zacarias

**Fiscal ID number****ID document****Birth date**

02-03-1960

**National of**

Portugal

**Gender**

F

**Work address**Universidade do Algarve  
Universidade do Algarve - Campus de Gambelas  
8005-139 Faro  
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### 2. Academic degrees

**Year:** 1982**Degree:** LICENCIATURA**Final grade:** 3.99/5.00**Degree granting institution** Universidade Simón Bolívar (Caracas, Venezuela)**School/College/Campus** n/a**Thesis title** Modelo dinámico de la central hidroeléctrica del Guri**Supervisor:**

**Co-supervisor:**

**Scientific area** Investigación Operacional

**Number of curricular years** 5

**Program title** Ingeniería de la Computación

**Year:** 1996

**Degree:** MESTRADO

**Final grade:** 5.00/5.00

**Degree granting institution** Universidade Simón Bolívar (Caracas, Venezuela)

**School/College/Campus** n/a

**Thesis title** Factores incidentes en la efectividad del proceso de desarrollo de sistemas de información

**Supervisor:** Teresita Rojas

**Co-supervisor:** Angélica Ovalles

**Scientific area** Sistemas de Informação

**Number of curricular years** 2

**Program title** Engenharia de Sistemas

**Year:** 2008

**Degree:** DOUTORAMENTO

**Final grade:** 4.80/5.00

**Degree granting institution** Universidade Técnica de Lisboa

**School/College/Campus** Other

**Thesis title** Conceptual Framework based on Agents and Contexts for the Alignment between Individuals and Organizations

**Supervisor:** José M. Tribolet

**Co-supervisor:** H. Sofia Pinto

**Scientific area** Sistemas de Informação

**Program title** Engenharia Informática e de Computadores

### 3. Previous activity and current status

Período	Cargo, categoria ou actividade	Instituição
01-9-1995 a 31-7-1996	Teaching Assistant	Universidade Simón Bolívar, Dept. Matemáticas y Sistemas
22-7-2008 a	Professor Auxiliar	Universidade do Algarve - Departamento de Engenharia Electrónica e Infomática
15-5-2001 a 21-7-2008	Professor Assistente	Universidade do Algarve, Dept. Engenharia Electrónica e Informática
01-9-1997 a 27-4-2001	Project Manager	DELFO (Software Vendor)
04-1-1993 a 31-8-1995	Information Technology Consultant	Self-employed
01-9-1982 a 31-12-1992	Informatics Specialist	Fondo Nacional de Investigaciones Agropecuarias (INIA)

### 4. Area of scientific activity

I develop research activities in the area of enterprise modelling and related methodologies, where I have worked on modelling work practices and developed a methodology to align work practices with business process models. This work has mainly focused on how to: (1) capture and represent specific action and interaction patterns of individuals, as well the tools and other resources used in performing business activities and (2) relate these patterns with more generic and normative business process descriptions.

Having focused the relationship between human organizational actors and technology, I have also great interest in the area of Interaction Design. In my thesis I explored connections between Organization and Interaction Design, and applied theories from Interaction Design in the context of my PhD research. Since 2009, I lecture a course on Human-Computer Interaction and work on the topic of Accessibility with an informal research group, at the University of Algarve.

## 5. Present research interest

### Domain of specialization

- Information Systems
- Enterprise Architecture
- Enterprise Engineering

### Current research interests

- Interaction Design and Accessibility
- Business Process Modeling
- Enterprise Modeling and Ontologies

### Other professional interests/activities

- Member of the Research Center for Spatial and Organisational Dynamics (CIEO)

## 6. Experience as scientific adviser

### PhD Supervisions:

1. Nuno Castela, "As-Is Representation in Enterprise Engineering: Processes and Tools for its Dynamic Updating", Instituto Superior Técnico, Concluded on July 2011 (co-supervision)
2. António Gonçalves, "Enquadramento conceptual e metodológico baseado na noção do contexto das actividades para gerir o alinhamento entre o trabalho das pessoas e as TI numa organização". Instituto Superior Técnico (co-supervision), 2013.

### Final Projects/Master Thesis Supervisions:

1. Tatiana Kikot, "Design and implementation of Portuguese Animation Platform to support interactive web-based communication", Master in Communication Design for Tourism and Culture, UAlg, to be finished in 2017
2. Ruben Gomes, "Methodology for Building and Maintaining Enterprise Architectures in Small and Medium Enterprises", Master in Informatics Engineering UAlg, 2013
3. Benjamin Vincent Nelson, "Management Information System for Schools", Master in Informatics Engineering, UAlg, 2013
4. Marzieh Bakhshandeh, "Integrated Enterprise Ontology Formalization", Master in Informatics Engineering, UAlg, 2011
5. Hector Rubilar, "Formalization of an Ontology based on Agents and Contexts", Master thesis in Informatics Engineering, Universidade do Algarve, 2011
6. João Mendes, "Engenharia Organizacional: Consciência Organizacional e Gestão da Mudança". Master thesis in Informatics Engineering, IST 2009
7. João Marques, "Engenharia Organizacional: Modelação de Competências". Master thesis in Informatics Engineering, Instituto Superior Técnico 2009
8. Pedro Ferreira, "Levantamento de processos de negócio por observação de contextos". Master thesis in Informatics Engineering, Instituto Superior Técnico 2006
9. Ana Rita Fernandes, "Modelação de Contextos em Engenharia Organizacional". Master Thesis, Instituto Superior Técnico, 2005
10. Claudia Maria, "Analisador de contextos interpessoais em ambientes de trabalho", final project for Informatics Engineering degree, Universidade do Algarve, 2007
11. Tiago Viseu and Abobokar Kara, "Modelação de Acções, Interações e Contextos", final project for Informatics Engineering, Instituto Superior Técnico, 2006
12. João Ferreira and Patrick Pereira, "Context Explorer", final project for Informatics Engineering degree, Universidade do Algarve, 2006
13. Ruben Gomes and José Coimbra, "Descoberta de contextos pessoais em ambientes de trabalho". final project for Informatics Engineering degree, Universidade do Algarve, 2006
14. João Paulo Correia, "Algarssist: Sistema de Informação de Assistência Técnica da empresa Algardata", final project for Informatics Engineering degree, Universidade do Algarve, 2006

## 7. Participation in R&D projects

### Participação em projectos de investigação (coordenador/membro de equipas)

Team member of three projects funded by the QREN program in partnership with three portuguese organizations of the region of Algarve; (1) Algardata, (2) Visual Forma and (3) INOFORMAT. The latter project involves helping the team in designing the user interfaces of the system under development.

## 8. Prizes and awards received

Year	Name of the prize or award	Promoting entity
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## 9. Published works

### Teses

1. Factores incidentes en la efectividad del proceso de desarrollo de sistemas de información, Masters Thesis, Universidad Simón Bolívar, Venezuela, July 1996
2. Conceptual Framework based on Agents and Contexts for the Alignment between Individuals and Organizations, PhD Thesis, IST/UTL, July 2008

### Livros (autor)

1. Lopez de Rojas, I., Zacarias, M., "Sistema experto para recomendaciones de cal en los suelos ácidos de Venezuela". Instituto Nacional de Investigaciones Agrícolas. Maracay, Venezuela (2002)

### Livros (editor)

1. Marielba Zacarias, J.V. Oliveira (eds). Human-Computer Interaction: The Agency Perspective, Studies in Computational Intelligence, Springer, Vol. 396, ISBN 978-3-642-25690-5, 2012.
2. Jorg Cassens, Anders Kofod-Petersen, Marielba Zacarias, and Rebekah Wegener (Eds.), Proceedings of the 6th International Workshop on Modeling and Reasoning in Context Proceedings, held in conjunction with the European Conference of Artificial Intelligence (ECAI), Lisbon-Portugal, 2010.
3. Cassens, J., Kofod-Petersen, A., Leake, D., Marielba Zacarias (Eds). Proceedings of the 5th International Workshop on Modeling and Reasoning in Context Proceedings, held in conjunction with the International Conference on Human-Centered Processes (HCP '08), 2010, Delft-Netherlands, 2008.

### Capítulos de livros

1. Paula Ventura Martins, Marielba Zacarias (2013). A New Methodology for Business Process Improvement, in Socio-technical Enterprise Information Systems Design and Integration, João Varajão, Maria Manuela Cruz-Cunha and António Trigo (Eds.), pp. 122-135, Information Science Reference.
2. José Tribolet, Marielba Zacarias, Rodrigo Magalhães (2009), Enhancing Organizational Self-Awareness with Enterprise Modeling Frameworks. In Innovation for Development, pp. 21-36. CIEO, Universidade do Algarve.
3. Marielba Zacarias, Rodrigo Magalhães, José Tribolet (2009), Modeling Human Resources in the Emergent Organization in Handbook of Research on E-Transformation and Human Resources Management Technologies: Organizational Outcomes and Challenges, T. Bondarouk, E. Oiry, K. Guiderdoni-Jourdain and, H. Ruel (Eds.), pp. 232-251, Information Science Reference.
4. Marielba Zacarias, Rodrigo Magalhães, Artur Caetano, H.Sofia Pinto, and José Tribolet (2008). Towards organizational self-awareness: An initial architecture and ontology. In Peter Rittgen (Ed.), Ontologies for Business Interactions, pp. 101-121, Idea Group.
5. Marielba Zacarias, H. Sofia Pinto, José Tribolet (2007). Discovering Multitasking Behavior at Work: A Context-Based Ontology. In: Coninx K., Luyten K., Schneider K.A. (eds.) Task Models and Diagrams for Users Interface Design. TAMODIA 2006. LNCS, vol 4385, pp.292-306, Springer Berlin/Heidelberg.

### Artigos em revistas de circulação internacional com arbitragem científica

1. Paula Ventura Martins, Marielba Zacarias (2017). Applying the Business Process and Practice Alignment Meta-model: Daily Practices and Process Modeling Business systems research journal: international journal of the Society for Advancing Business & Information Technology (BIT), 8(1):1-16
2. Paula Ventura Martins, Marielba Zacarias (2017). A Web-based Tool for Business Process Improvement. International Journal of Web Portals (IJWP) 9 (2), 68-84
3. Marielba Zacarias, Paula Ventura Martins, António Gonçalves (2017). An Agile Business Process Meta-model. Procedia Computer Science 121:170-177
4. Paula Ventura Martins, Marielba Zacarias (2017). An Agile Business Process Improvement Methodology. Procedia Computer Science 121:129-136
5. Paula Ventura Martins, Marielba Zacarias (2016). BPPAM Tool: A Business Process Framework. Procedia Computer Science 100:314-323
6. Paula Ventura Martins, Marielba Zacarias (2016). Business Process and Practice Alignment Meta-model. Procedia Computer Science 64:37-44
7. Rui Godinho, Paulo A. Condado, Marielba Zacarias, Fernando G. Lobo (2015). Improving accessibility of mobile devices with EasyWrite.Behaviour and Information Technology 34(2):1-16
8. Marielba Zacarias, Paula Ventura Martins (2014). Business Alignment Methodology: The Discovery Phase. Information Resources Management Journal 27(1):1-20
9. Nuno Castela, Paulo Dias, Marielba Zacarias, José Tribolet (2014). Collaborative Method to Maintain Business Process Models Updated.Computer Science and Information Systems 11(2):461-480
10. António Gonçalves, Marielba Zacarias, Pedro Sousa (2014). How to Use Activity Theory Contradiction Concept to Support Organization Control.New Perspectives in Information Systems and Technologies 2:417-427
11. António Gonçalves, Pedro Sousa, Marielba Zacarias (2013). Capturing Activity Diagrams from Ontological Model, International Journal of Research in Business and Technology, North America, 2(3):33-44
12. Antonio Gonçalves, Pedro Sousa, Marielba Zacarias (2013). Using Psi Theory and Activity Theory to Management Organization Change. International Journal of Research in Business and Technology, 3(1):89-97
13. António Gonçalves, Pedro Sousa, Marielba Zacarias (2013). A method to capture activity diagrams from ontological model. Procedia Technology 9:553-552
14. António Gonçalves, Marielba Zacarias and P. Sousa (2013). Using DEMO and Activity Theory to manage organization change. Procedia Technology 9:563-572
15. João Abreu, Paula Ventura Martins, Silvia Fernandes, Marielba Zacarias (2013). Procedia Technology 9:320-330
16. Nuno Castela, Paulo Dias, Marielba Zacarias, José Tribolet (2013). Business Process Model Collaborative Updating (2013). RISTI-Revista Ibérica de Sistemas e Tecnologias de Informação 12:33-47
17. Marielba Zacarias, Paula Ventura Martins (2012), Aligning Business Processes and Work Practices. Procedia Technology Journal, 5:234-243
18. Nuno Castela, Marielba Zacarias, José Tribolet (2012). Collaborative Maintenance of Business Process Models. International Journal of Organizational Design and Engineering, (2)1:61-84
19. Marielba Zacarias, Paulo Reis, H.Sofia Pinto, and José Tribolet (2011). Towards Enterprise Architecture

- Frameworks for Complex, Adaptive Systems. *International Journal of Organizational Design and Engineering*, 1(3):229-246
20. Marielba Zacarias, Rodrigo Magalhães, H. Sofia Pinto, José Tribolet (2010). An agent-centric and 'context-aware' perspective for the alignment between individuals and organizations. *Information Systems* 35:441 - 466
21. Marielba Zacarias, Rodrigo Magalhães, H. Sofia Pinto, José Tribolet (2010). Defining an Architectural View for Human Resources, *International Journal of Business Information Systems*, Special Issue 5(2):121-133
22. Marielba Zacarias, Patrício Serendero, H.Sofia Pinto, José Tribolet (2008). Capturing and Modeling Work Practice: A Context-based Methodological Approach. *Revue d' Intelligence Artificielle. Modeling and Reasoning on Context* 5(22):669-688
23. Rodrigo Magalhães, Marielba Zacarias, and José Tribolet (2007). Making sense of Enterprise Architectures as tools of Organizational Self-awareness. *Journal of Enterprise Architecture*, 3(4):64-72

### Publicações em actas de encontros científicos

1. Antonio Goncalves, Anacleto Correia, Marielba Zacarias (2017). CONTROLO ORGANIZACIONAL UMA ABORDAGEM BASEADA NA TEORIA ?. *Atas da Associação Portuguesa dos Sistemas de Informação* 17(17):377-380. DOI: <http://dx.doi.org/10.18803/capsi.v17.284-295>
2. Antonio Goncalves, Anacleto Correia, Marielba Zacarias (2017). A Reference Information Model to Information Security Service. *Atas da Associação Portuguesa dos Sistemas de Informação*. DOI: <http://dx.doi.org/10.18803/capsi.v17.377-380>
3. António Gonçalves, Marielba Zacarias, Pedro Sousa. Proposta de um enquadramento analítico de suporte à dinâmica das actividades. *Atas da Conferência da Associação Portuguesa de Sistemas de Informação*, 2014.
4. António Gonçalves, Marielba Zacarias, Pedro Sousa. Análise das Práticas das Pessoas numa Organização sob a Perspectiva da Teoria da Atividade. *Atas da Conferência da Associação Portuguesa de Sistemas de Informação*, 2014.
5. António Gonçalves, Marielba Zacarias and Pedro Sousa. Como mapear transações ontológicas em diagramas de atividade. *Atas Conferência da Associação Portuguesa dos Sistemas de Informação (CAPSI)*, 2013.
6. António Gonçalves, Marielba Zacarias and Pedro Sousa, Armazenamento das Resoluções de Contradições no Modelo Ontológico. *Atas da Conferência da Associação Portuguesa dos Sistemas de Informação (CAPSI)*, 2013.
7. António Gonçalves, Pedro Sousa, Marielba Zacarias. Modelling The Implementation Of An Organization: Mapping Ontological Transactions Into Activity, *Proceedings of 8th Iberian Conference on Information Systems and Technologies (CISTI)*, 2013.
8. António Gonçalves, Pedro Sousa, Marielba Zacarias, How to Handle Activity Theory Contradictions in DEMO Model, *IEEE Conference on Business Informatics (CBI 2013)*, doi: 10.1109/CBI.2013.
9. Marielba Zacarias, Paula Ventura Martins, Modeling Business Processes from Work Practices, M. Bajec and J. Eder (Eds.): *Proceedings of the CAiSE Workshops, LNBIP 112*, pp. 440-454, 2012. Springer-Verlag, Berlin/Heidelberg, 2012.
10. Paulo Condado, Rui Godinho, Marielba Zacarias, Fernando Lobo. EasyWrite: A touch-based entry method for mobile devices. *Proceedings of the 13th IFIP TC13 International Conference on Human-Computer Interaction (INTERACT), Workshop on Mobile Accessibility (MOBACC)*, pp. 1-8, 2011.
11. António Gonçalves, Marielba Zacarias, and Pedro Sousa. Analyzing people's work in organizations and its relationship with technology, *Enterprise Information Systems International Conference (CENTERIS)*, pp. 240-259, 2011.
12. Nuno Castela, Marielba Zacarias, and José Tribolet. PROASIS: As-Is Business Process Model Maintenance. *3rd Conference on Practice-driven Research on Enterprise Transformation (PRET)*, pp. 53-82, Springer Berlin/Heidelberg, 2011.
13. Paula Ventura Martins, Marielba Zacarias, and Nuno Castela. Collaborative methods for business process discovery. *Industrial Proceedings of the 18th European System and Software Process Improvement and Innovation Conference (EuroSPI2 )*, Industry/Experience Track, pp. 1-10, 2011.
14. N. Ventura, and Marielba Zacarias, BAM-Business Alignment Methodology, *Enterprise Information Systems International Conference (CENTERIS)*, pp. 390-399, 2011.
15. João Marques, Marielba Zacarias, and José Tribolet. Bottom-up Competency Modeling. *6th International Workshop on Cooperation and Interoperability - Architecture and Ontology CIAO!* held in conjunction with DESRIST. LNBIP 49 pp. 50-64. Springer Berlin-Heidelberg, 2010.
16. Nuno Castela, Marielba Zacarias, and José Tribolet, Business Process Model Dynamic Updating, *Proceedings of International Conference on Enterprise Information Systems (CENTERIS) - Part II*, pp. 158-167, 2010.
17. Nuno Castela, Marielba Zacarias, and José Tribolet, MAPA: Monitoring and Annotation of Processes and Activities, *Proceedings of the International Conference on Enterprise Information Systems (CENTERIS)-Part I*, pp. 101-110, 2010.
18. Marielba Zacarias, Rodrigo Magalhães, José Tribolet, Engineering the Organization from the bottom-up, *2nd International Workshop on Human Resource Information Systems (HRIS)*, in conjunction with the *10th International Conference on Enterprise Information Systems (ICEIS)*, 2008.
19. Marielba Zacarias, H. Sofia Pinto, José Tribolet. Automatic Discovery of personal action contexts. *5th International Workshop on Modeling and Reasoning on Context (MRC)*, held in conjunction with the *3rd International Conference on Human Centered Processes*, pp. 75-87 2008.
20. Marielba Zacarias, H. Sofia Pinto, and José Tribolet. Integrating Engineering, Cognitive and Social Approaches for a comprehensive modeling of organizational agents and their contexts. In *6th International Conference on modeling and using context (CONTEXT-07)*, Roskilde-Denmark. volume 4635 of LNCS (LNAI), pp. 517-530. Springer Berlin/Heidelberg, 2007.
21. Marielba Zacarias, H. Sofia Pinto, and José Tribolet. Reverse engineering of personal and interpersonal work practices: A context-based approach. *Proceedings of the 4th International Workshop on Modeling and Reasoning in Context (MRC) with Role of Contextualization in HUman Tasks: Enriching Actors (CHUT)*, pp. 75-88, 2007.
22. Marielba Zacarias, Artur Caetano, Rodrigo Magalhães, H.Sofia Pinto, José Tribolet. Adding a human perspective to enterprise architectures. *Proceedings of the 1st workshop on Enterprise Information Systems*, held in conjunction with the *18th International Conference on Database and Expert Systems Applications, (DEXA/WEISE)*, pp. 840-844, 2007.
23. Artur Caetano, Marielba Zacarias, António Silva Rito, José Tribolet. A framework for business process modeling and alignment. *Information Resources Management Association (IRMA) International Conference, Business Process Management Track*, 2007.
24. Diogo Ferreira, Marielba Zacarias, Miguel Malheiros, Pedro Ferreira. Approaching process mining with sequence clustering: Experiments and findings. *Proceedings of the 5th International Conference on Business Process Management (BPM)*, volume 4714 of LNCS, pages 360-374, Springer Berlin/Heidelberg, 2007.
25. Marielba Zacarias, H.Sofia Pinto, and José Tribolet. A context-based modeling approach to support Multitasking at Work. *Proceedings of 5th International Workshop on Task Models and Diagrams for UI Design (TAMODIA)*, 2006.
26. Discovering Personal Action Contexts with SQL Server Integration and Analysis Services. *Proceedings of the 2nd International Conference on Innovative Views of .net Technologies*, pp. 217-236, 2006.
27. Marielba Zacarias, A. Caetano, H.S. Pinto, and J. Tribolet. Modeling contexts for a business process

- oriented support. Proceedings 2nd Workshop on Knowledge Management for Distributed Agile Processes, volume 3782 of LNAI, pp. 431-442. Springer Berlin/Heidelberg, 2005.
28. Patrícia Macedo, Marielba Zacarias, Projecto de Investigação em Modelação de Processos de Produção em Engenharia Organizacional: Discussão de Técnicas e Metodologias Aplicadas , Atas da 6ta Conferência da Associação Portuguesa de Sistemas de Informação (CAPSI), 2005.
  29. Marielba Zacarias, A.R. Marques, H.S. Pinto, and J. Tribolet. Enhancing collaboration services with business context models. Proceedings of Workshops on Cooperative Systems and Context and Groupware and Context, held in conjunction with the 5th International and Interdisciplinary Conference on Modeling and Using Context (CONTEXT), volume 133 of CEUR, 2005.
  30. Artur Caetano, Marielba Zacarias, António Rito Silva, José Tribolet. Specifying business processes with role and business object models. 16th International Resource Management Association Conference (IRMA), 2005.
  31. Artur Caetano, Marielba Zacarias, António Rito Silva, José Tribolet. A role-based framework for business process modeling. Proceedings of the 38th Hawaii International Conference on System Sciences (HICSS), pp.13c, IEEE Computer Society, 2005.
  32. Marielba Zacarias, H. Sofia Pinto, and José Tribolet. Modelação de Contextos em Engenharia Organizacional, Atas 5a Conferencia de la Associação Portuguesa dos Sistemas de Informação (CAPSI), 2004

### Outras publicações

1. Marielba Zacarias, Paula Ventura Martins (eds), Spatial and Organizational Dynamics Discussion Papers, 12, September 2012.
2. Gonçalves, A., Zacarias, M, Sousa, P. How to model people work practices from ontological transactions. In Spatial and Organizational Dynamics. Discussion Papers, 12, CIEO, Universidade do Algarve, September 2012
3. Fernando Lobo, Marielba Zacarias, Paulo Condado, Teresa Romão, Rui Godinho, Manuel Moreno. Evaluating accessible Synchronous CMS Applications. arXiv Report abs/1005.1200v3. [Available at <http://arxiv.org/abs/1005.1200>]
4. Fernando Lobo, Marielba Zacarias, Paulo Condado. Tornar possível o que parece impossível. UAlgine:Revista da Universidade do Algarve, p. 10, 2011.
5. Ventura, P., Zacarias, M. Collaborative methods for business processes discovery. In Discussion Papers. CIEO, UAlg, 2011.
6. Zacarias, M., Pinto, H. S., Tribolet, J. Notion, theories and models of Context: Engineering, Cognitive and Social Perspectives. Tech. Rep. 41/2005, INESC- ID, 2005.
7. Marielba Zacarias, H. Sofia Pinto, José Tribolet. Redes de Conhecimento em Engenharia Organizacional: O imperativo dos Contextos de Acção , Cadernos BAD 1:6-20, 2004

### 10. Communications in scientific meetings

#### Comunicações orais por convite

1. Seminar "Usabilidade das Interfaces de Utilizador", Marielba Zacarias, Ciclo de Seminários Now Design, Escola Superior de Educação e Comunicação, Universidade do Algarve, Nov 2016
2. Seminar "Exploring User-Driven Technological Change of Discontinued Home Video Games Hardware: An Activity Theory Based Approach", Jorge Graça and Marielba Zacarias. CIEO, Feb 2011
3. Seminar "Collaborative Methods for Business Process Discovery", Paula Ventura and Marielba Zacarias. CIEO, Feb 2011

### 11. Languages

Language	Reading	Writing	Conversation
English	Very good	Very good	Very good
Spanish	Very good	Very good	Very good
Portuguese	Very good	Very good	Very good
French	Basic	Basic	Basic