

# Adolfo Ruiz Calleja

## Personal information

Name and surname: Adolfo Ruiz Calleja  
Address: c/El Calderón nº6  
34190 – Villamuriel de Cerrato (Palencia)  
Spain  
Telephone: (+34)675065024  
Date of birth: 22-10-1984  
Citizenship: Spanish  
Current position: Postdoc Researcher at the School of  
Telecommunications Engineering, University of  
Valladolid  
e-mail: ruizcalleja@gmail.com

## Research interests

**Semantic technologies and data management:** Linked Data, Data Science, ontological engineering, semantic search, semantic data visualization, Open Data, Web of Data.

**Social Web:** Web 2.0, social annotation applications, social-semantic approach, social networks.

**Formal and Informal learning:** Learning Analytics, MultiModal Learning Analytics, workplace learning, informal contexts, Computer Supported Collaborative Learning (CSCL), life-long learning.

**Distributed systems:** service oriented architectures and middleware. REST services.

## Education

Ph.D. Degree in Telecommunications engineering (with honours), University of Valladolid (September 2013).

Thesis title: "SEEK-AT-WD: A social-semantic infrastructure for educators to discover and select ICT tools in the Web of Data".

Certificate in Research Proficiency in the area of knowledge "Signal theory and communications", University of Valladolid (2010).

Master in Logic and Philosophy of Science. University of Valladolid (started 2007, graduation 2008).

M.Sc. Telecommunication engineering, University of Valladolid (started 2002, graduation 2007).

## Previous activities as a researcher

Postdoc Researcher at the School of Telecommunications Engineering, GSIC/EMIC research group. University of Valladolid. February 2019 – now.

Senior researcher. Center of Educational Technology. Tallinn University (Estonia). September 2016 – January 2019.

Post-doctoral researcher. Center of Educational Technology. Tallinn University (Estonia). March 2014 – August 2016

Doctoral scholarship funded by the regional Government of Castilla y León. GSIC/EMIC research group. University of Valladolid (Spain). June 2009 – May 2013.

Research contract by the GSIC/EMIC research group, funded by Telefónica I+D. University of Valladolid (Spain). March 2008 – May 2009.

## Scientific Publications

### JCR-Indexed journal publications

- Ruiz-Calleja, A., Dennerlein, S., Kowald, D., Theiler, D., Lex, E. And Ley, T. **An infrastructure for workplace Learning Analytics: Tracing knowledge creation with the Social Semantic Server.** Journal of Learning Analytics 6(2):120-139, August 2019.
- Ruiz-Calleja, A., Asensio-Pérez, J.I., Vega-Gorgojo, G., Gómez-Sánchez, E., Bote-Lorenzo, M.L., Alario-Hoyos, C. **Enriching the Web of Data with Educational Information Using We-Share.** The International Review of Research in Open and Distributed Learning. 18(1), February 2017.
- Ruiz-Calleja, A., Vega-Gorgojo, G., Asensio-Pérez, J.I., Bote-Lorenzo, M.L., Gómez-Sánchez, E., Alario-Hoyos, C. **SEEK-AT-WD: A social-semantic infrastructure to sustain educational ICT tool descriptions in the Web of Data** Educational Technology & Society. 17(2), 321-332, April 2014.
- Ruiz-Calleja, A., Vega-Gorgojo, G., Asensio-Pérez, J.I., Bote-Lorenzo, M.L., Gómez-Sánchez, E., Alario-Hoyos, C. **A Linked Data approach for the discovery of educational ICT tools in the Web of Data** Computers & Education. 59(3):952-962, November 2012.
- Ley, T., Maier, R., Thalmann, S., Waizenegger, L., Pata, K. and Ruiz-Calleja, A. **A Knowledge Appropriation Model to Connect Scaffolded Learning and Knowledge Maturation in Workplace Learning Settings** Vocations and Learning, DOI: <https://doi.org/10.1007/s12186-019-09231-2> August 2019.
- Alario-Hoyos, C., Gómez-Sánchez, E., Bote-Lorenzo, M.L., Asensio-Pérez, J.I., Vega-Gorgojo, G., Ruiz-Calleja, A. **From face-to-face to distance LMS-mediated collaborative learning situations with GLUE!** Computer Applications in Engineering Education 23(4):527-536, July 2015.
- Vega-Gorgojo, G., Asensio-Pérez, J.I., Gómez-Sánchez, E., Bote-Lorenzo, M.L., Muñoz-Cristóbal, J., Ruiz-Calleja, A. (2015) **A review of Linked Data proposals in the learning domain.** Journal of Universal Computer Science, 21(2):326-364. February 2015.
- Alario-Hoyos, C., Bote-Lorenzo, M.L., Gómez-Sánchez, E., Asensio-Pérez, J.I., Vega-Gorgojo, G., Ruiz-Calleja, A. **GLUE!: An Architecture for the Integration of External Tools in Virtual Learning Environments** Computers & Education. 60(1):122-137, January 2013.

International conference publications

- Ruiz-Calleja, A., Bote-Lorenzo, L.M., Vega-Gorgojo, G., Serrano-Iglesia, S., Asensio-Pérez, J.I., Dimitriadis, Y., Gómez-Sánchez, E. **Exploiting the Web of Data to bridge formal and informal learning experiences**. Proceedings of the 7th International Conference on Technological Ecosystems for Enhancing Multiculturality, TEEM 2019, León, Spain. In press.
- Ruiz-Calleja, A., García, S., Tammets, K., Aguerrebere, S., Ley, T. **Scaling Learning Analytics up to the national level: the experience from Estonia and Uruguay**. Proceedings of the 2nd Latin American Conference on Learning Analytics 1-10, Valdivia (Chile). CEUR. 2019.
- Ruiz-Calleja, A., Prieto, L.P., Ley, T., Rodríguez-Triana, M.J., **Learning Analytics for Professional and Workplace Learning: A Literature Review**. Proceedings of the 10th European conference on Technology Enhanced Learning, ECTEL 2017. 164-178, Tallinn (Estonia). (Shortlisted for the best paper award).
- Ruiz-Calleja, A., Rodríguez-Triana, M.J., Prieto, L.P., Poom-Valickis, K. and Ley, T. **Towards a Living Lab to Support Evidence-based Educational Research and Innovation**. Proceedings of the Learning Analytics Summer Institute Spain 2017: Advances in Learning Analytics. 31-38, Madrid (Spain).
- Ruiz-Calleja, A., Dennerlein, S., Ley, T., Lex, E. **Visualizing Workplace Learning Data with the SSS Dashboard**. Proceedings of the Learning Analytics for Workplace and Professional Learning Workshop held at the Learning Analytics and Knowledge Conference (LAK 2016). 79-86, Edinburgh (UK).
- Ruiz-Calleja, A., Dennerlein, S., Tomberg, V., Pata, K., Ley, T., Theiler, D., Lex, E. **Supporting Learning Analytics for informal workplace learning with a social semantic infrastructure**. Proceedings of the tenth European conference on Technology Enhanced Learning, ECTEL 2015. 634-637, Toledo (Spain), September 2015.
- Ruiz-Calleja, A., Dennerlein, S., Tomberg, V., Ley, T., Theiler, D., Lex, E. **Integrating data across workplace learning applications with a social semantic infrastructure**. Proceedings of the 14th International Conference on Web-based Learning (ICWL 2015) 208-217. Guangzhou, China, November 2015.
- Ruiz-Calleja, A., Vega-Gorgojo, G., Gómez-Sánchez, E., Asensio-Pérez, J.I., Bote-Lorenzo, M.L., Alario-Hoyos, C., **We-Share: a social annotation application that publishes and retrieves information about educational ICT tools from the Web of Data** Proceedings of the LinkedUp Veni Competition on Linked and Open Data for Education held at the Open Knowledge Conference (OKCon 2013) 48-53. Geneva, Switzerland, September 2013. (Third place award and the people's choice award)
- Ruiz-Calleja, A., Vega-Gorgojo, G., Alowisheq, A., Asensio-Pérez, J.I., Tiropanis, T. **Supporting educators to discover and select ICT tools with SEEK-AT-WD** Proceedings of the Seventh European Conference on Technology Enhanced Learning, ECTEL 2012, Saarbrücken (Germany), September 2012.
- Ruiz-Calleja, A., Vega-Gorgojo, G., Gómez-Sánchez, E., Asensio-Pérez, J.I., Alario-Hoyos, C., Bote-Lorenzo, M.L. **Automatic retrieval of educational ICT tool descriptions from the Web of Data** Proceedings of the Twelfth International Conference on Advanced Learning Technologies, ICALT 2012, 105-109, Rome, Italy, July 2012. (Best full paper award).
- Ruiz-Calleja, A., Tiropanis, T., Vega-Gorgojo, G., Asensio-Pérez, J.I. **Exploiting the Web of Data to provide descriptions of ICT tools: a preliminary report about SEEK-AT-WD** Proceedings of the Second

International Workshop on Learning and Education with the Web of Data, Lile 2012, Lyon, France, April 2012.

Ruiz-Calleja, A. **A Linked-Data-based Search System of Educational Tools for the Web of Data** Proceedings of the Proceedings of the 5th Doctoral Consortium at the European Conference on Technology Enhanced Learning, ECTEL-DC 2010, 70979-84, Barcelona, September 2010.

Kant-Shankar, S., Ruiz-Calleja, A., Prieto, L.P., Rodríguez-Triana, M.J., Chejara, P. **An architecture and data model to process multimodal evidence of learning.** Proceedings of the 18th International Conference on Web-Based Learning, ICWL 2019, Magdeburg, Germany, September 2019. In press.

Chejara, P., Prieto, L.P., Ruiz-Calleja, A., Rodríguez-Triana, M.J., Kant-Shankar, S. **Exploring the Triangulation of Dimensionality Reduction when Interpreting Multimodal Learning Data from Authentic Settings.** Proceedings of the 14th European Conference on Technology Enhanced Learning, ECTEL 2019, Delf, Netherlands, September 2019. In press.

Kant-Shankar, S., Ruiz-Calleja, A., Serrano-Iglesias, S., Ortega-Arranz, A., Topali, P., Martínez-Monés, A. **A Data Value Chain to Model the Processing of Multimodal Evidence in Authentic Learning Scenarios.** Proceedings of the Learning Analytics Summer Institute Spain 2019, LASI Spain 2019, 71-83, Vigo, Spain, June 2019.

Kant-Shankar, S., Prieto, L.P., Rodríguez-Triana, M.J., Ruiz-Calleja, A. **A review of multimodal Learning Analytics architectures.** Proceedings of the 18th International Conference on Advanced Learning Technologies, ICALT 2018, 212-214, Bombay, India, July 2018.

Vega-Gorgojo, G., Ruiz-Calleja, A., Asensio-Pérez, J.I., Jorrín-Abellán, I.M. **U-Seek: searching educational tools in the Web of Data** Proceedings of the Seventh European Conference on Technology Enhanced Learning, ECTEL 2012, Saarbücken, Germany, September 2012.

Dennerlein, S., Kowald, D., Lex, E., Theiler, D., Lacic, E., Ley, T., Tomberg, V., Ruiz-Calleja, A. **The Social Semantic Server: A Flexible Framework to Support Informal Learning at the Workplace.** Proceedings of the 15 International Conference on Knowledge Technologies and Data-Driven Business (IKNOW 2015). Graz, Austria. October 2015.

Alario-Hoyos, C., Bote-Lorenzo, M.L., Gómez-Sánchez, E., Asensio-Pérez, J.I., Vega-Gorgojo, G., Ruiz-Calleja, A. **Demonstration of the integration of external tools in VLEs with the GLUE! architecture** Proceedings of the Seventh European Conference on Technology Enhanced Learning, ECTEL 2012, 465-470, Saarbrücken, Germany, September 2012.

Alario-Hoyos, C., Bote-Lorenzo, M.L., Gómez-Sánchez, E., Asensio-Pérez, J.I., Vega-Gorgojo, G., Ruiz-Calleja, A. **Integration of external tools in VLEs with the GLUE! architecture: A case study** Proceedings of the Seventh European Conference on Technology Enhanced Learning, ECTEL 2012, 371-376, Saarbrücken, Germany, September 2012.

Alario-Hoyos, C., Bote-Lorenzo, M.L., Gómez-Sánchez, E., Velasco-Villanueva, D.A., Asensio-Pérez, J.I., Vega-Gorgojo, G., Ruiz-Calleja, A. **Integration of external tools with GLUE! in LAMS: requirements, implementation and a case study** Proceedings of the 6th International LAMS and Learning Design Conference, LAMS 2011, 40-48, Sydney, Australia, December 2011.

Alario-Hoyos, C., Asensio-Pérez, J.I., Bote-Lorenzo, M.L., Gómez-Sánchez, E., Vega-Gorgojo, G., Ruiz-Calleja, A. **Integration of external tools in Virtual Learning Environments: main design issues and alternatives** Proceedings of the 10th International Conference on Advanced Learning Technologies,

ICALT 2010, 384-388, Sousse, Tunisia, July 2010.

Bordies, O., Villasclaras-Fernández, E.D., Dimitriadis, Y., Ruiz-Calleja, A. **Reusability of data flow designs in complex CSCL scripts: Evaluation results from a case study** Proceedings of the 18th International Conference on Collaboration and Technology, CRIWG 2012, Duisburg-Essen, Germany, September 2012.

#### Spanish national conference publications

Ruiz-Calleja, A., Vega-Gorgojo, G., García-Gómez, S., Asensio-Pérez, J.I., Bote-Lorenzo, M.L., Gómez-Sánchez, E. **Un modelo de datos semántico para catálogos activos de empresas de telecomunicación** Proceedings of the IX Jornadas de Ingeniería Telemática, JITEL 2010, 337-344, Valladolid, Spain, September 2010.

Alario-Hoyos, C., Gómez-Sánchez, E., Bote-Lorenzo, M.L., Asensio-Pérez, J.I., Ruiz-Calleja, A., Vega-Gorgojo, G. **Towards single sign-on on the integration of external tools in Virtual Learning Environments** Proceedings of the IX Jornadas de Ingeniería Telemática, JITEL 2010, 385-388, Valladolid, Spain, September 2010.

#### Book chapters and other journal publications

Ruiz-Calleja, A., Vega-Gorgojo, G., Asensio-Pérez, J.I., Bote-Lorenzo, M.L., Gómez-Sánchez, E., Alario-Hoyos, C. **A Linked-Data based infrastructure for the retrieval of educational tools** IEEE Learning Technology Newsletter. 13(1):15-17, 2011.

Bordies, O., Dimitriadis, Y., Alario-Hoyos, C., Ruiz-Calleja, A., Subert, A. **Reuse of Data Flow Designs in Complex and Adaptive CSCL Scripts: A Case Study** in Intelligent Adaptation and Personalization Techniques in Computer-Supported Collaborative Learning Studies in Computational Intelligence, Daradoumis, A. (Editor), Springer Verlag, vol. 408, pp. 3-27, 2011.

Alario-Hoyos, C., Bote-Lorenzo, M.L., Gómez-Sánchez, E., Asensio-Pérez, J.I., Vega-Gorgojo, G., Ruiz-Calleja, A. **Enhancing learning environments by integrating external applications** Bulletin of the IEEE Technical Committee on Learning Technology. 15(1): 21-24, January 2013.

Ruiz-Calleja, A. **Información semántica e implicación lógica**. Agora, papeles de filosofía (32 latindex criteria). 27(2):101-104. December 2008.

## **Awards**

Twelfth International Conference on Advanced Learning Technologies, ICALT 2012. **Best full paper award**

**Third place in the Veni Competition** (September 2013), organized by the LinkedUp Project.

**People's choice in the Veni Competition** (September 2013), organized by the LinkedUp Project.

**Finalist (second place) in the ERICSSON award to the best doctoral thesis** about applications for multimedia environments (June 2014), organized by the Official Spanish Association of Telecommunication Engineers (Colegio Oficial de Ingenieros de Telecomunicación).

## Participation in research projects

### EU-funded research projects

**Title: Cross-Forest**

Financer entity: European Union's Innovation and Networks Executive Agency (INEA) (Action 2017-EU-IA-0140; Agreement No INEA/CEF/ICT/A2017/1566738)

Duration: from September 2018 to February 2021

Quantity of the grant: 1.637.690 euros

Project leader: Asunción Roldán Zamarrón

**Title: CEITER: Cross-Border Educational innovation through Technology-Enhanced Research**

Financer entity: European Commission (Call for proposal H2020-WIDESPREAD-2014-2 – ERA Chair project)

Duration: from January 2016 to June 2020

Quantity of the grant: 2.000.000 euros

ERA Chair holder: Tobias Ley

**Title: Sheila: Supporting Higher Education to Incorporate Learning Analytics**

Financer entity: European Commission (Call for proposal EACEA/33/2014 – Erasmus+ programme)

Duration: from November 2015 to September 2018

Quantity of the grant: 622.990 euros

Project leader: Dragan Gasevic

**Title: Learning Layers: "Scaling up technologies for informal learning in SME clusters"**

Financer entity: European Commission (grant no: 318209)

Duration: from November 2012 to October 2016

Quantity of the grant: 12.000.000 euros

Project leader: Tobias Ley

**Title: Incoming: Interdisciplinary Curricula in Computing to Meet Labor Market Needs**

Financer entity: European Commission (530155-TEMPUS-1-2012-1-EE-TEMPUS-JPCR)

Duration: from November 2012 to September 2015

Quantity of the grant: 731.173 euros

Project leader: Mart Laanpere

**Title: Grid4All: "Self-\* grid: dynamic virtual organizations for schools, families and all"**

Financer entity: European Commission (grant no: 034567)

Duration: from June 2006 to September 2008

Quantity of the grant: 2.900.000 euros

Project leader: Leandro Navarro Moldes

### Spanish national research projects

**Title: SmartLET: Learning analytics to enhance the design and orchestration in scalable, IoT-enriched, and ubiquitous Smart Learning Environments**

Financer entity: Spanish Ministry of Science and Innovation (TIN2017-85179-C3-2-R)

Duration: from January 2018 to December 2020

Project leader: Miguel Luis Bote Lorenzo

**Title: RESET-UVA: Reformulando ecosistemas escalables educativos**

Financer entity: Spanish Ministry of Science and Innovation (TIN2014-53199-C3-2R)

Duration: from January 2015 to December 2017  
Quantity of the grant: 139.900 euros  
Project leader: Ioannis Dimitriadis Damoulis and Eduardo Gómez Sánchez

Title: **EEE-Web: Orquestando espacios educativos Web y especulares**  
Financer entity: Spanish Ministry of Science and Innovation (TIN2011-28308-C03-02)  
Duration: from January 2012 to December 2014  
Quantity of the grant: 160.930 euros  
Project leader: Ioannis Dimitriadis Damoulis

Title: **Arquitectura basada en servicios para el apoyo al diseño, realización y evaluación de situaciones CSCL guiadas y flexibles**  
Financer entity: Spanish Ministry of Science and Innovation (TIN2008-03023/TSI)  
Duration: from January 2009 to December 2011  
Quantity of the grant: 238.100 euros  
Project leader: Ioannis Dimitriadis Damoulis

#### Estonian national projects

Title: **The implementation of the IT-related master's curriculum in the IT Department at Kabul University in 2016-2018, and a training programme in Estonia for state officials responsible for the development of higher education in Afghanistan**  
Financer entity: Estonian Ministry of Foreign Affairs  
Duration: from January 2016 to December 2018  
Project leader: Peeter Normak

Title: **The implementation of the three curricula for IT Master's Studies, developed by Tallinn University, in the Faculty of Informatics at Kabul University in the period from 2013 to 2015**  
Financer entity: Estonian Ministry of Foreign Affairs  
Duration: from January 2013 to December 2015  
Project leader: Peeter Normak

#### Spanish regional research projects

Title: **Uso de la Web de Datos para apoyar el aprendizaje contextualizado en entornos inteligentes de aprendizaje**  
Financer entity: Government of Castilla y Leon (VA257P18)  
Duration: from January 2019 to December 2021  
Quantity of the grant: 119.859 euros  
Project leader: Miguel Luis Bote Lorenzo

Title: **Infraestructura basada en *Linked-Data* para asistir al profesorado superior en la búsqueda y anotación de herramientas educativas**  
Financer entity: Government of Castilla y Leon  
Duration: from January 2011 to December 2012  
Quantity of the grant: 24.000 euros  
Project leader: Guillermo Vega Gorgojo

## Research contracts with private companies

Title: **Desarrollo de herramientas que faciliten el acceso centralizado a las distintas plataformas de gestión de redes existentes: Integración del catálogo semántico activo para mejorar la automatización y flexibilidad de los procesos de provisión**

Contract between Telefonica I+D and the University of Valladolid

Financer entity: Telefonica I+D

Duration: from January 2009 to December 2009

Quantity of the contract: 60.000 euros

Project leader: Ioannis Dimitriadis Damoulis

Title: **Generación de una herramienta de información semántica orientada al conocimiento. Proyecto EURICLES.**

Contract between Telefonica I+D and the University of Valladolid

Financer entity: Telefonica I+D

Duration: from October 2007 to December 2008

Quantity of the grant: 40.000 euros

Project leader: Guillermo Vega Gorgojo

## **Research stays**

Fundación CEIBAL. Montevideo (Uruguay).  
September 2017 to November 2017

Web and Internet Science Research Group. University of Southampton (United Kingdom).  
October 2011 to March 2012

## **Other scientific activities include:**

Reviewer of International Journals and conferences (among others)

Computers & Education

IEEE Transactions on Learning Technologies

International Review of Research in Open and Distributed Learning

Educational Technology & Society

European Conference on Technology Enhanced Learning (EC-TEL)

Learning Analytics and Knowledge (LAK)

### PhD reviewer

Mohammad Hadi Hedayati. "Ontology-driven reference model for the vocational ICT curriculum development". Tallinn University. February 2018. Tallinn, Estonia.

José Antonio Ruipérez Valiente. "Analyzing the behavior of students regarding learning activities, badges, and academic dishonesty in MOOC environments". Universidad Carlos III de Madrid. April 2016. Leganés (Madrid), Spain.

### PhD committee member

Abiodun Afolayan Ogunyemi. "HCI Practice Uptake in Software Development Companies: Improving Through Process Self-assessment". Tallinn University. February 2018. Tallinn, Estonia.

Mohammad Hadi Hedayati. "Ontology-driven reference model for the vocational ICT curriculum development". Tallinn University. February 2018. Tallinn, Estonia.

José Antonio Ruipérez Valiente. "Analyzing the behavior of students regarding learning activities, badges, and academic dishonesty in MOOC environments". Universidad Carlos III de Madrid. April 2016. Leganés (Madrid), Spain.

#### International Presentations (among others)

"Consumiendo datos abiertos con múltiples propósitos". Seminar in the Institute of Computer Science, Universidad Católica de Bolivia. August 2019. La Paz, Bolivia.

"Learning Analytics initiatives in Estonia". Fundación CEIBAL. October 2017. Montevideo, Uruguay.

"Learning Analytics initiatives and policies in Estonia". Seminar organized by "eMadrid Network". October 2016. Leganés (Madrid), Spain.

"Learning Analytics in the workplace" in Learning Analytics Summer Institute Spain 2016. July 2016. Bilbao, Spain.

"Workplace Learning Analytics" in 12th Joint European Summer School on Technology Enhanced Learning. June 2016. Tallinn, Estonia.

"Workplace Learning Analytics" Seminar in the Institute of Computer Science, Pontificia Universidad Católica de Chile. November 2015. Santiago de Chile, Chile.

"We-Share: una aplicación social y semántica para la búsqueda y selección de herramientas educativas en la Web de Datos" in the Panel "Herramientas y recursos TIC" of the XXI Jornadas Universitarias de Tecnología Educativa (JUTE 2013). June 2013. Valladolid, Spain.

"A Linked Data approach for the discovery and selection of educational ICT tools" in the WAIS Student Seminar of the School of Electronics and Computer Science at the University of Southampton. January 2012. Southampton, United Kingdom.

"Posibilidades de las aplicaciones interactivas multimedia para la divulgación científica en los museos" in the congress "Cibersofía: Filosofía y videojuegos". Universidad Autónoma de Madrid. March 2008. Madrid, Spain.

## **Teaching experience**

### Courses taught

2016-2017. Subject "Linked Data and REST-based infrastructures" (new subject). Master Program in Computer Science. University of Kabul, Afghanistan. 5 ECTS.

2016-2017. Subject "Spanish culture". Spanish as a foreign language. University of Kabul, Afghanistan. 2 ECTS.

2014-2015. Subject: "User Modeling and Recommender Systems" (new subject). Master Program in Human-Computer Interaction. Tallinn University, Estonia. 5 ECTS.

2014-2015. Subject "Software Quality Assurance" (new subject). Master Program in Computer Science. University of Kabul, Afghanistan. 5 ECTS.

2014-2015. Subject "Spanish culture". Spanish as a foreign language. University of Kabul, Afghanistan. 2

ECTS.

2012-2013. Subject: "Computer Architecture". M.Sc. Telecommunication engineering, University of Valladolid, Spain. 6 ECTS.

2011-2012. Subject: "Computer Architecture". M.Sc. Telecommunication engineering, University of Valladolid, Spain. 6 ECTS.

2010-2011. Subject: "Computer Architecture". M.Sc. Telecommunication engineering, University of Valladolid, Spain. 6 ECTS.

#### Master thesis supervised

2018. Palwasha Ahadyar. "Redesign of Kabul University website to exploit Linked Data services". Supervisors: Sayed Hassan Adelyar and Adolfo Ruiz-Calleja. Kabul University.

2018, Mohammad Saber Ahmadi. "Curricula of database management in ICT vocational institutes in Afghanistan. Case study of Kabul". Supervisors: Mohammad Hadi Hedayati and Adolfo Ruiz-Calleja. Kabul University.

2016. Maroof Khan. "Barriers for adoption of information and communication technology in education in Afghanistan. Case study Paktia province, Afghanistan". Supervisors: Salim Say and Adolfo Ruiz-Calleja. Kabul University.

#### Bachelor thesis supervised

2013. Diego Rioja-Guedán. "Ontoolwiki: Un sistema de anotación semántic de herramientas educativas basado en la Semantic Media Wiki". Supervisors: Adolfo Ruiz-Calleja and Guillermo Vega-Gorgojo. University of Valladolid.

### **Other relevant information**

Experience **applying for national and European research projects**.

**Coordination of the proposal of the multidisciplinary Master programme "Open Society Technologies"**.

This proposal was a collaborative effort from two institutes of Tallinn University: The Institute of Digital Technologies, and the Institute of Governance, Law and Society. The Master programme proposal has successfully been approved by the Estonian Ministry of Education and Research.

Experience as a **programmer** using Java, Javascript and Drupal.

**Experience designing and developing Semantic Web and Linked Data applications and software infrastructures for the educational/learning domain.** Example of applications and infrastructures designed and/or developed:

<http://www.gsic.uva.es/seek/useek/>

<http://seek.cloud.gsic.tel.uva.es/weshare/>

<http://results.learning-layers.eu/infrastructure/sss/>

<http://results.learning-layers.eu/tools/sss-dashboard/>

Work as a **full-time freelance programmer from 09/2013 to 03/2014** and part time from 04/2014 until now.

Design, development and maintenance of a data infrastructure and a search system that exploit the legacy data of an auction company.

Active blogger from 09/2009 until now. Currently, the blog is **financially sponsored by 12 companies**.

<http://blognumismatico.com>

Founder and manager of the Estonian **start-up “Ruiz Calleja OÜ”** (reg. 12999902). Funded in 2016 and currently active.

**Accredited as “profesor ayudante doctor”** by the “Agencia de Calidad del Sistema Universitario de Castilla y León”. 2013.