

# Luis P. Prieto

Learning Technology Researcher

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🌐 <http://luispprieto.com>

## Research areas and interests


Technology-Enhanced Learning (TEL), Computer-Supported Collaborative Learning (CSCL), Learning Analytics (LA), Multimodal learning and teaching analytics, Paper-based and tangible interfaces for education, Human-Computer Interaction (HCI), Visualizations for teacher reflection

## Experience

### Academia

 **Senior Research Fellow**, *Center of Excellence for Educational Innovation (HUT), School of Educational Sciences*, Tallinn University (TLU), Estonia.

- Learning Analytics applied to everyday teaching and learning

 **Scientist (Marie Curie Fellow)**, *Computer Human Interaction for Learning and Instruction (CHILI)*, École Polytechnique Fédérale de Lausanne (EPFL), Switzerland.

- Modelling teacher workload “in situ” using wearable and ubiquitous sensors
- Tools to promote everyday teacher reflection in professional development
- Augmented paper classroom technologies
- Mixed methods studies, with emphasis on quantitative (e.g., eye-tracking) measures

 **Postdoctoral Researcher**, *GSIC-EMIC research group*, University of Valladolid, Spain.

- Technologies for professional development around learning design (METIS EU project)

 **Doctoral Researcher**, *GSIC-EMIC research group*, University of Valladolid, Spain.

- Architectures, technologies and professional development actions for supporting collaborative learning (multiple Spanish national research projects)
- Mixed methods studies, with emphasis on qualitative/interpretive perspective

### Industry

 **R&D Engineer**, *Telefónica Investigación y Desarrollo (TID)*, Valladolid, Spain.

- Software development of telecommunication platforms
- Technical lead of team in mobile and grid computing (XtreemOS EU project)

 **Intern**, *Telefónica Investigación y Desarrollo (TID)*, Valladolid, Spain.

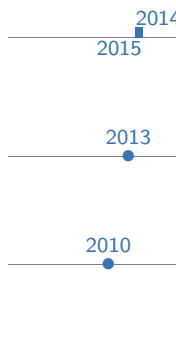
- Software development of vocal services (e.g., VoiceXML)

## Education

 **PhD Information and Communication Technologies**, *University of Valladolid*, Valladolid, Spain.

 **BSc Telecommunications Engineering**, *University of Valladolid*, Valladolid, Spain.

## Research stays

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- A vertical timeline on the left side of the 'Research stays' section. It features a horizontal line with three blue dots representing the years 2010, 2013, and 2015. Small blue bars extend from the line to the right, with the years 2014 and 2016 written above them.
- 2014** **Marie Curie Intra-European Fellowship**, *École Polytechnique Fédérale de Lausanne*, Switzerland.  
Modelling and Integration of Orchestrated Classrooms through Tangible and paper Interfaces
  - 2013** **Postdoctoral research stay**, *Laboratoire d'Informatique de Grenoble*, France.  
Joint work and publications on authoring tools for learning design, and their appropriation by teachers
  - 2010** **Predocotrual research stay**, *SRI International*, Menlo Park, CA, USA.  
Joint work and publications on lightweight collaborative applications and their integration in teacher practice in primary and middle schools

## Awards


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- A vertical timeline on the left side of the 'Awards' section. It features a horizontal line with four blue dots representing the years 2012, 2013, 2014, and 2016. Small blue bars extend from the line to the right, with the years 2015 and 2016 written above them.
- 2016** **Best Paper Award**, *European Conference on Technology-Enhanced Learning*.
  - 2014** **Marie Curie Intra-European Fellowship**, *European Commission*.  
Modelling and Integration of Orchestrated Classrooms through Tangible and paper Interfaces
  - 2013** **Best Doctoral Thesis Award**, *eMadrid (R&D Network on Educational Technology in the Region of Madrid)*.
  - 2012** **Ph.D. Extraordinary Award, Engineering/Architecture Area**, *University of Valladolid*.

## Memberships

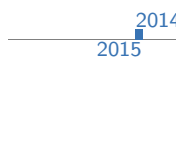
- Member of the Institute of Electrical and Electronics Engineers (IEEE) and IEEE Education Society
- Member of the Association for Computing Machinery (ACM) and ACM SIGCHI
- Member of the Society for Learning Analytics Research (SoLAR)

## Participation in research projects

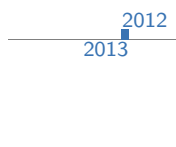
### Tallinn University (TLU)

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- A vertical timeline on the left side of the 'Tallinn University (TLU)' section. It features a horizontal line with two blue dots representing the years 2017 and 2016. Small blue bars extend from the line to the right, with the years 2017 and 2016 written above them.
- 2017** **"CEITER"**, *ERA Chair (H2020-WIDESPREAD-2014-2)*, European Commission.  
Research on tools and practices to improving everyday teaching and learning using learning analytics

### École Polytechnique Fédérale de Lausanne (EPFL)

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- A vertical timeline on the left side of the 'École Polytechnique Fédérale de Lausanne (EPFL)' section. It features a horizontal line with two blue dots representing the years 2015 and 2014. Small blue bars extend from the line to the right, with the years 2015 and 2014 written above them.
- 2015** **"MIOCTI"**, *Marie Curie Intra-European Fellowship (FP7-PEOPLE-2012-IEF project no. 327384)*, European Commission.  
Research on modelling classroom orchestration (e.g., using eye-tracking techniques) and paper-based tangible environments for the classroom

### University of Valladolid (UVA)

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- A vertical timeline on the left side of the 'University of Valladolid (UVA)' section. It features a horizontal line with two blue dots representing the years 2013 and 2012. Small blue bars extend from the line to the right, with the years 2013 and 2012 written above them.
- 2013** **"METIS"**, *European Lifelong Learning Project (531262-LLP-1-2012-1-ES-KA3-KA3MP)*, European Commission.  
Research on the technological and conceptual support of professional development actions (workshops) on learning design

- 2012  
2013
- “EEE-WEB: Orchestrating educational web and specular spaces”**, *Spanish National Research Project (TIN2011-28308-C03-02)*, Spanish Ministry of Economy and Competitiveness.  
Research on orchestration of ubiquitous learning activities occurring across web, 3D virtual and augmented physical spaces
- 2009  
2012
- “SOFOCLES: Service-based architecture for supporting design, enactment and evaluation of scripted and flexible CSCL situations”**, *Spanish National Research Project (TIN2008-03023/TSI)*, Spanish Ministry of Science and Innovation.  
Research on flexible enactment and orchestration of computer-supported collaborative activities
- 2011  
2013
- “Existing VLE extension architecture for automatic deployment, tool integration, guidance and interaction gathering in the enactment of collaborative learning situations”**, *Regional Research Project (VA293A11-2)*, Autonomous Government of Castilla y León (Spain).  
Research on software architectures to support scripting of computer-supported collaborative activities
- 2011  
2013
- “Learning Management System in VLE platforms”**, *Spanish National Technology Transfer Project (IPT-430000-2010-054)*, Spanish Ministry of Science and Innovation.  
Research and development of deployment of technology-enhanced learning situations on VLE platforms
- 2012
- “AR-ML”**, *Multidisciplinar Research Project (CTEFUva-DIV-2011-02-P3)*, Cátedra Telefónica.  
Research on the state of the art of augmented reality and mobile devices applied to education
- 2012
- “AR4ALL”**, *Multidisciplinar Research Project (CTEFUva-PID-2011-02-P4)*, Cátedra Telefónica.  
Research & Development of a prototype to deploy educational situations in physical spaces using augmented reality
- 2006  
2008
- Telefónica Investigación y Desarrollo (TID)**  
**“XtreemOS”**, *European Integrated Project (FP6-033576)*, European Commission.  
Technical and administrative leadership of TID team in the project.  
Research and development of a Linux-based operating system with grid computing capabilities, especially its mobile device flavour

## Languages

Spanish	Native	<i>Mother Tongue</i>
English	Full professional proficiency	<i>CAE (U. Cambridge)</i>
French	Fluent	<i>Niveau B2 (DELF) Niveau C2 (BULATS)</i>

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## Peer-reviewed journal publications (17)

2015

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Cristóbal, J. A. Muñoz, I. M. Jorrín-Abellán, J. I. Asensio-Pérez, A. Martínez-Monés, L. P. Prieto, and Y. Dimitriadis. "Supporting Teacher Orchestration in Ubiquitous Learning Environments: A Study in Primary Education". In: *Learning Technologies, IEEE Transactions on* 8.1. **JCR Impact Factor: 1.283. Citations (Google Scholar): 5**, pp. 83–97.

2015

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Muñoz-Cristóbal, J. A., L. P. Prieto, J. I. Asensio-Pérez, A. Martínez-Monés, I. M. Jorrín-Abellán, and Y. Dimitriadis. "Coming down to Earth: Helping teachers use 3D virtual worlds in across-spaces learning situations". In: *Journal of Educational Technology & Society* 18.1. **JCR Impact Factor: 1.018. Citations (Google Scholar): 9**, pp. 13–26.

2015

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Prieto, L. P., Y. Dimitriadis, J. I. Asensio-Pérez, and C. K. Looi. "Orchestration in learning technology research: evaluation of a conceptual framework". In: *Research in Learning Technology* 23.0. **Citations (Google Scholar): 1**.

2014

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Muñoz-Cristóbal, J. A., L. P. Prieto, J. I. Asensio-Pérez, A. Martínez-Monés, I. M. Jorrín-Abellán, and Y. Dimitriadis. "Deploying learning designs across physical and web spaces: Making pervasive learning affordable for teachers". In: *Pervasive and Mobile Computing* 14. **JCR Impact Factor: 1.667. Citations (Google Scholar): 17**, pp. 31–46.

2014

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Prieto, L. P., J. I. Asensio-Pérez, J. A. Muñoz-Cristóbal, I. M. Jorrín-Abellán, Y. Dimitriadis, and E. Gómez-Sánchez. "Supporting orchestration of CSCL scenarios in web-based Distributed Learning Environments". In: *Computers & Education* 73. **JCR Impact Factor: 2.556. Citations (Google Scholar): 10**, pp. 9–25.

2014

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Prieto, L. P., Y. Dimitriadis, and J. I. Asensio-Pérez. "Orchestrating evaluation of complex educational technologies: A case study of a CSCL system". In: *Qualitative Research in Education* 3.2. **Citations (Google Scholar): 2**, pp. 175–205.

2014

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Prieto, L. P., P. Tchounikine, J. I. Asensio-Pérez, P. Sobreira, and Y. Dimitriadis. "Exploring teachers' perceptions on different CSCL script editing tools". In: *Computers & Education* 78. **JCR Impact Factor: 2.556. Citations (Google Scholar): 9**, pp. 383–396.

2014

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Prieto, L. P., Y. Wen, D. Caballero, and P. Dillenbourg. "Review of augmented paper systems in education: An orchestration perspective". In: *Journal of Educational Technology & Society* 17.4. **JCR Impact Factor: 1.018. Citations (Google Scholar): 4**, pp. 169–185.

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- 2013  
Dimitriadis, Y., L. P. Prieto, and J. I. Asensio-Pérez. "The role of design and enactment patterns in orchestration: Helping to integrate technology in blended classroom ecosystems". In: *Computers & Education* 69. **JCR Impact Factor: 2.630. Citations (Google Scholar): 7**, pp. 496–499.
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- 2013  
Prieto, L. P., J. I. Asensio-Pérez, J. A. Muñoz Cristóbal, Y. Dimitriadis, I. M. Jorrín-Abellán, and E. Gómez-Sánchez. "Enabling teachers to deploy CSCL designs across distributed learning environments". In: *Learning Technologies, IEEE Transactions on* 6.4. **JCR Impact Factor: 1.22. Citations (Google Scholar): 17**, pp. 324–336.
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- 2013  
Prieto, L. P., Y. Dimitriadis, B. Craft, M. Derntl, V. Emin, M. Katsamani, D. Laurillard, E. Masterman, S. Retalis, and E. Villasclaras. "Learning design Rashomon II: exploring one lesson through multiple tools". In: *Research in Learning Technology* 21. **Citations (Google Scholar): 13**.
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- 2012  
Muñoz-Cristóbal, J. A., L. P. Prieto, J. I. Asensio-Pérez, I. M. Jorrín-Abellán, and Y. Dimitriadis. "Orchestrating TEL situations across spaces using Augmented Reality through GLUE!-PS AR". In: *Bulletin of the IEEE Technical Committee on Learning Technology* 14.4. **Citations (Google Scholar): 12**, pp. 14–16.
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- 2011  
Prieto, L. P., M. Holenko Dlab, I. Gutiérrez, M. Abdulwahed, and W. Balid. "Orchestrating technology enhanced learning: a literature review and a conceptual framework". In: *International Journal of Technology Enhanced Learning* 3.6. **Citations (Google Scholar): 46**, pp. 583–598.
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- 2011  
Prieto, L. P., S. Villagrà-Sobrino, I. M. Jorrín-Abellán, A. Martínez-Monés, and Y. Dimitriadis. "Recurrent routines: Analyzing and supporting orchestration in technology-enhanced primary classrooms". In: *Computers & Education* 57.1. **JCR Impact Factor: 2.621. Citations (Google Scholar): 39**, pp. 1214–1227.
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- 2008  
Coppola, M., Y. Jégou, B. Matthews, C. Morin, L. P. Prieto, O. D. Sánchez, E. Y. Yang, and H. Yu. "Virtual organization support within a grid-wide operating system". In: *Internet Computing, IEEE* 12.2. **JCR Impact Factor: 2.309. Citations (Google Scholar): 51**, pp. 20–28.
- 
- Rodríguez-Triana, M. J., L. P. Prieto, A. Vozniuk, M. Shirvani Boroujeni, B. A. Schwendimann, A. Holzer, and D. Gillet. "Monitoring, awareness and reflection in blended technology-enhanced learning: a systematic review". In: *Accepted at the International Journal of Technology Enhanced Learning*.

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Schwendimann, B. A., M. J. Rodríguez-Triana, A. Vozniuk, L. P. Prieto, M. Shirvani Boroujeni, A. Holzer, D. Gillet, and P. Dillenbourg. "Perceiving learning at a glance: A systematic literature review of learning dashboard research". In: *Accepted at IEEE Transactions on Learning Technologies*. **JCR Impact Factor: 1.283**.

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## Peer-reviewed conference publications (27)

2016

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Prieto, L. P., K. Sharma, M. J. Rodríguez-Triana, and P. Dillenbourg. "Teaching Analytics: Towards Automatic Extraction of Orchestration Graphs Using Wearable Sensors". In: *Proceedings of the 6<sup>th</sup> International Conference on Learning Analytics and Knowledge (LAK 2016)*. (Edinburgh, Scotland, UK), pp. 532–533.

2016

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Rodríguez-Triana, M. J., A. Holzer, L.P. Prieto, and D. Gillet. "Examining the effects of social media in co-located classrooms: A case study based on SpeakUp". In: *Accepted at the 11<sup>th</sup> European Conference on Technology-Enhanced Learning (EC-TEL 2016)*. (Lyon, France). **Conference Best Paper Award**.

2016

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Schwendimann, B. A., M. J. Rodríguez-Triana, A. Vozniuk, L. P. Prieto, M. Shirvani Boroujeni, A. Holzer, D. Gillet, and P. Dillenbourg. "Understanding learning at a glance: A systematic literature review of learning dashboards". In: *Proceedings of the 6<sup>th</sup> International Conference on Learning Analytics and Knowledge (LAK 2016)*. (Edinburgh, Scotland, UK), pp. 148–157.

2016

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Wen, Y., L. P. Prieto, and P. Dillenburg. "Exploring classroom usage of a tangible user interface for Chinese character learning". In: *Paper presented at The 9<sup>th</sup> International Conference & Workshops on Technology & Chinese Language Teaching in the 21st Century*. (Macau, China), pp. 346–356.

2015

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Martinez-Maldonado, R., P. Goodyear, Y. Dimitriadis, K. Thompson, L. Carvalho, L. P. Prieto, and M. Parisio. "Learning about collaborative design for learning in a multi-surface design studio". In: *Proceedings of the 11<sup>th</sup> International Conference on Computer-Supported Collaborative Learning (CSCL 2015)*. (Gothenburg, Sweden). Vol. 1. **Citations (Google Scholar): 3**, pp. 174–181.

2015

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Muñoz-Cristóbal, J. A., J. I. Asensio-Pérez, A. Martínez-Monés, L. P. Prieto, I. M. Jorrín Abellán, and Y. Dimitriadis. "Bucket-Server: A system for including teacher-controlled flexibility in the management of learning artifacts in across-spaces learning situations". In: *Proceedings of the 10<sup>th</sup> European Conference on Technology-Enhanced Learning (EC-TEL 2015)*. (Toledo, Spain), pp. 518–521.

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2015

Prieto, L. P., Y. Dimitriadis, A. Harrer, M. Milrad, M. Nussbaum, and J. D. Slotta. "The orchestrated collaborative classroom: Designing and making sense of heterogeneous ecologies of teaching and learning resources". In: *Proceedings of the 11<sup>th</sup> International Conference on Computer-Supported Collaborative Learning (CSCL 2015)*. (Gothenburg, Sweden). Vol. 2, pp. 880–884.

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2015

Prieto, L. P., K. Sharma, and P. Dillenbourg. "Studying teacher orchestration load in technology-enhanced classrooms: A mixed-method approach and case study". In: *Proceedings of the 10<sup>th</sup> European Conference on Technology-Enhanced Learning (EC-TEL 2015)*. (Toledo, Spain). **Citations (Google Scholar): 3**.

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2015

Prieto, L. P., K. Sharma, Y. Wen, and P. Dillenbourg. "The burden of facilitating collaboration: Towards estimation of teacher orchestration load using eye-tracking measures". In: *Proceedings of the 11<sup>th</sup> International Conference on Computer-Supported Collaborative Learning (CSCL 2015)*. (Gothenburg, Sweden). Vol. 1. **Citations (Google Scholar): 4**, pp. 212–219.

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2015

Wen, Y., L. P. Prieto, and P. Dillenbourg. "Paper-based tabletop application for collaborative Chinese character learning". In: *Proceedings of the 11<sup>th</sup> International Conference on Computer-Supported Collaborative Learning (CSCL 2015)*. (Gothenburg, Sweden). Vol. 2. **Citations (Google Scholar): 1**, pp. 665–666.

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2014

Asensio-Pérez, J. I., Y. Dimitriadis, L. P. Prieto, D. Hernández-Leo, and Y. Mor. "From idea to VLE in half a day: METIS approach and tools for learning co-design". In: *Proceedings of the 2<sup>nd</sup> International Conference on Technological Ecosystems for Enhancing Multiculturality (TEEM '14)*. (Salamanca, Spain). **Citations (Google Scholar): 2**, pp. 741–745.

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2014

Caballero, D., Y. Wen, L. P. Prieto, and P. Dillenbourg. "Single locus of control in a tangible paper-based tabletop application: An exploratory study". In: *Proceedings of the 9<sup>th</sup> ACM International Conference on Interactive Tabletops and Surfaces (ITS '14)*. (Dresden, Germany). **Citations (Google Scholar): 1**, pp. 351–356.

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2014

Hernández-Leo, D., J. I. Asensio-Pérez, M. Derntl, L. P. Prieto, and J. Chacón. "ILDE: Community Environment for Conceptualizing, Authoring and Deploying Learning Activities". In: *Proceedings of the 9<sup>th</sup> European Conference on Technology Enhanced Learning (EC-TEL 2014)*. (Graz, Austria). **Citations (Google Scholar): 16**, pp. 490–493.

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2014

Prieto, L. P., Y. Wen, D. Caballero, K. Sharma, and P. Dillenbourg. "Studying teacher cognitive load in multi-tabletop classrooms using mobile eye-tracking". In: *Proceedings of the 9<sup>th</sup> ACM International Conference on Interactive Tabletops and Surfaces (ITS '14)*. (Dresden, Germany). **Citations (Google Scholar): 3**, pp. 339–344.

2013

Hernández-Leo, D., J. Chacón, L. P. Prieto, J. I. Asensio-Pérez, and M. Derntl. "Towards an integrated learning design environment". In: *Proceedings of the 8<sup>th</sup> European Conference on Technology Enhanced Learning (EC-TEL 2013)*. (Paphos, Cyprus). **Citations (Google Scholar): 9**, pp. 448–453.

2013

Martinez-Maldonado, R., Y. Dimitriadis, A. Clayphan, J. A. Muñoz-Cristóbal, L. P. Prieto, M. J. Rodríguez-Triana, and J. Kay. "Integrating orchestration of ubiquitous and pervasive learning environments". In: *Proceedings of the 25<sup>th</sup> Australian Computer-Human Interaction Conference (OzCHI): Augmentation, Application, Innovation, Collaboration*. (Adelaide, Australia). **Citations (Google Scholar): 8**, pp. 189–192.

2013

Muñoz-Cristóbal, J. A., L. P. Prieto, J. I. Asensio-Pérez, I. M. Jorrín-Abellán, A. Martínez-Monés, and Y. Dimitriadis. "GLUEPS-AR: A System for the Orchestration of Learning Situations across Spaces Using Augmented Reality". In: *Proceedings of the 8<sup>th</sup> European Conference on Technology Enhanced Learning (EC-TEL 2013)*. **Citations (Google Scholar): 1**. Paphos, Cyprus, pp. 565–568.

2013

Muñoz-Cristóbal, J. A., L. P. Prieto, J. I. Asensio-Pérez, I. M. Jorrín-Abellán, A. Martínez-Monés, and Y. Dimitriadis. "Sharing the burden: Introducing student-centered orchestration in across-spaces learning situations". In: *Proceedings of the 8<sup>th</sup> European Conference on Technology Enhanced Learning (EC-TEL 2013)*. (Paphos, Cyprus). **8**, pp. 621–622.

2013

Prieto, L. P., S. Villagrà-Sobrino, Y. Dimitriadis, J. I. Asensio-Pérez, and I. M. Jorrín-Abellán. "Fostering CSCL Adoption: An Approach to Professional Development Focused on Orchestration". In: *Proceedings of the 10<sup>th</sup> International Conference on Computer-Supported Collaborative Learning (CSCL 2013)*. (Madison, WI). Vol. 1, pp. 383–390.

2012

Alario-Hoyos, C., J. A. Muñoz-Cristóbal, L. P. Prieto, M. L. Bote-Lorenzo, J. I. Asensio-Pérez, E. Gómez-Sánchez, G. Vega-Gorgojo, and Y. Dimitriadis. "GLUE!-GLUE!-PS: An approach to deploy non-trivial collaborative learning situations that require the integration of external tools in VLEs". In: *Proceedings of the 1<sup>st</sup> Moodle Research Conference*. (Heraklion, Greece). **Citations (Google Scholar): 10**, pp. 77–85.

2012

Karakostas, A., L. P. Prieto, and Y. Dimitriadis. "Opportunities and challenges for adaptive collaborative support in Distributed Learning Environments: Evaluating the GLUE! suite of tools". In: *Proceedings of the 12<sup>th</sup> International Conference on Advanced Learning Technologies (ICALT 2012)*. (Rome, Italy). **Citations (Google Scholar): 4**, pp. 446–450.



2012

Muñoz-Cristóbal, J. A., L. P. Prieto, J. I. Asensio-Pérez, I. M. Jorrín-Abellán, and Y. Dimitriadis. "Lost in translation from abstract learning design to ICT implementation: a study using Moodle for CSCL". In: *Proceedings of the European Conference on Technology-Enhanced Learning (EC-TEL 2012)*. (Saarbrücken, Germany). **Citations (Google Scholar): 14**, pp. 264–277.

2012

Prieto, L. P., J. A. Muñoz-Cristóbal, J. I. Asensio-Pérez, and Y. Dimitriadis. "Making learning designs happen in distributed learning environments with GLUE!-PS". In: *Proceedings of the European Conference on Technology-Enhanced Learning (EC-TEL 2012)*. (Saarbrücken, Germany). **Citations (Google Scholar): 11**, pp. 489–494.

2011

Prieto, L. P., J. I. Asensio-Pérez, Y. Dimitriadis, E. Gómez-Sánchez, and J. A. Muñoz-Cristóbal. "GLUE!-PS: a multi-language architecture and data model to deploy TEL designs to multiple learning environments". In: *Proceedings of the 6<sup>th</sup> European Conference on Technology Enhanced Learning (EC-TEL 2011)*. (Palermo, Italy). **Citations (Google Scholar): 34**, pp. 285–298.

2011

Prieto, L. P., S. Villagrà-Sobrino, Y. Dimitriadis, P. Schank, W. Penuel, and A. H. DeBarger. "Mind the gaps: Using patterns to change everyday classroom practice towards contingent CSCL teaching". In: *Proceedings of the 9<sup>th</sup> International Conference on Computer-Supported Collaborative Learning (CSCL 2011)*. (Hong Kong, China). **Citations (Google Scholar): 12**, pp. 518–525.

2011

Roschelle, J., C. Patton, P. Schank, W. Penuel, C.-K. Looi, W. Chen, A. Chan, L. P. Prieto, S. Villagrà-Sobrino, and Y. Dimitriadis. "CSCL and innovation: in classrooms, with teachers, among school leaders, in schools of education". In: *Proceedings of the 9<sup>th</sup> International Conference on Computer-Supported Collaborative Learning (CSCL 2011)*. (Hong Kong, China). **Citations (Google Scholar): 8**, pp. 1073–1080.

2010

Prieto, L. P., S. Villagrà-Sobrino, Y. Dimitriadis, I. M. Jorrín-Abellán, A. Martínez-Monés, and R. Anguita-Martínez. "Recurrent routines in the classroom madness: pushing patterns past the design phase". In: *Proceedings of the 7<sup>th</sup> International Conference on Networked Learning*. (Aalborg, Denmark). **Citations (Google Scholar): 13**, pp. 499–507.

## Edited proceedings volumes (1)

2015

Prieto, L. P., Y. Dimitriadis, A. Harrer, M. Milrad, and J. D. Slotta, eds. 2015. *Proceedings of the Orchestrated Collaborative Classroom Workshop 2015 (OCCW15)*. (Gothenburg, Sweden, June 7, 2015). CEUR Workshop Proceedings 1411. Aachen.

## Communications at workshops and national conferences (15)

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2016

Prieto, L. P. *Towards a Genomic Metaphor for Educational Technology Research*. Paper presented at the “Connecting Learning Analytics and Design (CLAD2016)” workshop, co-located with the 11<sup>th</sup> European Conference on Technology-Enhanced Learning (EC-TEL 2016). Lyon, France.

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2015

Prieto, L. P. *Classroom technology design guidelines: A focused survey*. Proceedings of the Orchestrated Collaborative Classroom Workshop 2015 (OCCW15), co-located with the 11<sup>th</sup> International Conference on Computer-Supported Collaborative Learning (CSCL 2015). Gothenburg, Sweden.

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2015

Prieto, L. P., H. S. Alavi, K. Sharma, M. Raca, and P. Dillenbourg. *Wearable-enhanced classroom orchestration*. Paper presented at the “Wearable-Enhanced Learning Design Challenge”, co-located with the 10<sup>th</sup> European Conference on Technology-Enhanced Learning (EC-TEL 2015). Toledo, Spain.

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2015

Prieto, L. P. and P. Dillenbourg. *The Orchestration Matrix: A Tool to Design Heterogeneous Classroom Ecosystems*. Proceedings of the Orchestrated Collaborative Classroom Workshop 2015 (OCCW15), co-located with the 11<sup>th</sup> International Conference on Computer-Supported Collaborative Learning (CSCL 2015). Gothenburg, Sweden.

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2015

Prieto, L. P. and K. Sharma. *Studying orchestration affect using physiological measures*. Paper presented at the “Motivational and Affective aspects of Technology-Enhanced Learning” (MATEL 2015) workshop, co-located with the 10<sup>th</sup> European Conference on Technology-Enhanced Learning (EC-TEL 2015). Toledo, Spain.

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2013

Muñoz-Cristóbal, J. A., L. P. Prieto, J. I. Asensio-Pérez, A. Martínez-Monés, I. M. Jorrín-Abellán, and Y. Dimitriadis. *Realidad aumentada en educación*. Paper presented at the XXI University Conference on Educational Technology (JUTE 2013). Valladolid, Spain.

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2013

Prieto, L. P., Y. Dimitriadis, and J. I. Asensio-Pérez. *Orchestration in Technology-Enhanced Learning: a banner and a conceptual framework*. Paper presented at the XXI University Conference on Educational Technology (JUTE 2013). Valladolid, Spain.

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2013

Prieto, L. P., J. A. Muñoz-Cristóbal, J. I. Asensio-Pérez, and Y. Dimitriadis. *Flexible CSCL scripting using paper, generic Augmented Reality browsers and GLUEPS-AR*. Paper presented at the Workshop on Human-Computer Interaction and the Learning Sciences, 10<sup>th</sup> International Conference on Computer Supported Collaborative Learning (CSCL 2013). Madison, WI.

- 2013  
Rodríguez-Triana, M. J., L. P. Prieto, S. Villagrà-Sobrino, and A. Martínez-Monés. *Combinando guiado y monitorización en actividades colaborativas soportadas por ordenador: un estudio de caso en el grado de Maestro/a en Educación Primaria de la Universidad de Valladolid*. Paper presented at the XXI University Conference on Educational Technology (JUTE 2013). Valladolid, Spain.
- 2012  
Muñoz-Cristóbal, J. A., J. I. Asensio-Pérez, L. P. Prieto, I. M. Jorrín-Abellán, Y. Dimitriadis, and A. Martínez-Monés. *Helping educators to deploy CSCL scripts into mainstream VLEs that integrate third-party Web and Augmented Reality Tools*. Paper presented at the Workshop on Digital Ecosystems for Collaborative Learning 2012 held in conjunction with the International Conference of the Learning Sciences (ICLS 2012). **Citations (Google Scholar): 3**. Sydney, Australia.
- 2011  
Dimitriadis, Y., L. P. Prieto, and S. Villagrà-Sobrino. *Designing for enactment: Multi-level patterns and routines in teacher practice*. Paper presented at the "Art and Science of Learning Design" international workshop (ASLD11). London, UK.
- 2011  
Prieto, L. P., Y. Dimitriadis, and S. Villagrà-Sobrino. *Representing learning design and classroom orchestration through atomic patterns*. Paper presented at the "Art and Science of Learning Design" international workshop (ASLD11). London, UK.
- 2011  
Prieto, L. P., Y. Dimitriadis, S. Villagrà-Sobrino, I. M. Jorrín-Abellán, and A. Martínez-Monés. *Orchestrating CSCL in primary classrooms: One vision of orchestration and the role of routines*. Paper presented at the "How to integrate CSCL in classroom life: Orchestration" workshop co-located with the 9<sup>th</sup> International Conference on Computer-Supported Collaborative Learning (CSCL 2011). **Citations (Google Scholar): 7**. Hong Kong, China.
- 2011  
Villagrà-Sobrino, S., I. M. Jorrín-Abellán, L. P. Prieto, and S. García-Sastre. *Tendiendo lazos entre escuela y universidad: rutinas de diseño y puesta en práctica de actividades colaborativas apoyadas con TIC como estrategia para el desarrollo profesional en educación primaria*. Paper presented at the Jornadas Universitarias de Tecnología Educativa (JUTE 2011). Sevilla, Spain.
- 2010  
Villagrà-Sobrino, S., I. M. Jorrín-Abellán, and L. P. Prieto. *Fill in the gaps: A rural school community of practice to actively design technology-based learning activities*. Paper presented at 6<sup>th</sup> International Congress of Qualitative Inquiry. Urbana-Champaign, IL.

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## Book chapters (1)

2013

Prieto, L. P., S. Villagr a-Sobrino, Y. Dimitriadis, and I. M. Jorr n-Abell n. "Orchestrating classroom CSCL: a multi-level pattern approach for design and enactment". In: *Handbook of Design in Educational Technology*. Ed. by R. Luckin, P. Goodyear, B. Grabowski, S. Puntambekar, J. Underwood, and N. Winters. **Citations (Google Scholar): 3**. Routledge, pp. 112–123.

## Technical reports and whitepapers (2)

2010

Prieto, L. P. *The many faces of orchestration: Towards a (more) operative definition*. Technical report. **Citations (Google Scholar): 7**. GSIC-EMIC research group, University of Valladolid, Spain.

2008

Cortes, T., C. Franke, Y. J gou, T. Kielmann, D. Laforenza, B. Matthews, C. Morin, L. P. Prieto, A. Reinefeld, et al. *XtreemOS: a vision for a Grid operating system*. White paper. **Citations (Google Scholar): 39**. XtreemOS Project Consortium.

## Monographs and Theses (2)

2012

Prieto, L. P. "Supporting orchestration of blended CSCL scenarios in Distributed Learning Environments". Ph.D. Thesis. School of Telecommunications Engineering, University of Valladolid, Spain.

Prieto, L. P. "An exploration of teacher enactment of CSCL activities in computer-integrated classrooms". Master's thesis (Suficiencia Investigadora). Escuela T cnica Superior de Ingenieros en Telecomunicaciones, Universidad de Valladolid.

## Citations and impact metrics (Google Scholar)

### 580 Total citations

13 h-index

22 i10-index

## Other academic and editorial experience

- o Workshop chair at the European Conference on Technology-Enhanced Learning (EC-TEL 2017) (Tallinn, Estonia) (2017)
- o Co-organizer of the "Current and Future Multimodal Learning Analytics Data Challenges" workshop (MMLA 2017) (Vancouver, Canada) (2016)
- o Program Committee member at the International Conference on Computer-Supported Collaborative Learning (CSCL 2017) (Philadelphia, US) (2017)
- o Co-organizer of the "Connecting Learning Analytics and Design" workshop (CLAD 2016) (Lyon, France) (2016)
- o Co-organizer of the "Orchestrating Learning Analytics" workshop (OrLA 2016) at the Learning Analytics Summer Institute (LASI) (Bilbao, Spain) (2016)

- Main organizer of the “Orchestrated Collaborative Classroom” workshop (Gothenburg, Sweden) (2015)
- Editor of the “Orchestrated Collaborative Classroom” workshop proceedings (2015)
- Guest editor for the “Young Researcher Special Issue” at the International Journal of Technology Enhanced Learning (2011)
- Program Committee member of the CSCL Track at the IEEE International Conference on Advanced Learning Technologies (ICALT 2016)
- Reviewer for multiple international journals and conferences, including Computers & Education, IEEE Transactions on Learning Technologies, IEEE Computer, International Journal on Technology-Enhanced Learning, International Conference on Computer-Supported Collaborative Learning (CSCL), European Conference on Technology-Enhanced Learning (EC-TEL), International Conference on Advanced Learning Technologies (ICALT), ACM International Conference on Tangible Embedded and Embodied Interaction (TEI), Learning Analytics and Knowledge (LAK) Conference
- Participated in multiple scientific winter/summer schools and workshops, including two EATEL European Summer Schools in Technology-Enhanced Learning (2009, 2010), a Chinese-European Summer School on Technology-Enhanced Learning (2011), two Technologies for Vocational Education workshops (2012, 2014), CUSO Winter School on Future User Interfaces (2015), or the Multimodal Learning Analytics Data Challenges (2016)
- Followed entrepreneurship courses (Business Concept, Centre for Technology and Innovation, Switzerland)

## Teaching experience

- 2015 **Introduction á l'informatique visuelle (CS-211)**, *École Polytechnique Fédérale de Lausanne*.  
Collaboration in preparation of the course (incl. platform for HCI experiments, cs211labs)
- 2014 **Digital education and Learning Analytics (CS-411)**, *École Polytechnique Fédérale de Lausanne*.  
Collaboration in preparation and delivery of the course (incl. hands-on practice with different learning technologies and lecture on Gamification in education)
- 2012 **Taller semipresencial de TICs específicas para aprendizaje colaborativo: WebCollage, Moodle y Wikis**, *Centro Buendía, University of Valladolid*.  
Professional development workshop on learning technologies for University of Valladolid faculty
- 2012 **Taller semipresencial de introducción al diseño y puesta en marcha de actividades colaborativas avanzadas usando TIC**, *Centro Buendía, University of Valladolid*.  
Professional development workshop on learning technologies for University of Valladolid faculty

2011

**Taller semipresencial de introducción al diseño y puesta en marcha de actividades colaborativas avanzadas usando Moodle y otras herramientas TIC,** *Centro Buendía, University of Valladolid.*

Professional development workshop on learning technologies for University of Valladolid faculty

## Thesis and project supervision

Ongoing

2016  
2017

**Merike Saar,** *Automated Measurement and Feedback System to Improve the Quality of Teaching and Enhance Student Success,* Ph.D. thesis, Tallinn University (TLU).

Completed

2014

**Carlos Sánchez Witt,** *Paprika: A framework for paper-based interaction,* Master's thesis, École Polytechnique Fédérale de Lausanne (EPFL).

2013

**Juan A. Carrasco Domínguez,** *Factores temporales en el despliegue y gestión de actividades colaborativas soportadas por GLUE! PS,* Master's thesis, University of Valladolid.

## Pedagogical education

2016

**Assessment Matters,** *Teaching Support Centre (CAPE), EPFL.*

Professional development workshop focused on formative and summative assessment in higher education

2015

**Flipping a Class,** *Teaching Support Centre (CAPE), EPFL.*

Professional development workshop focused on techniques to deliver courses following a 'flipped classroom' approach

2015

**Instructional Skills Workshop,** *Teaching Support Centre (CAPE), EPFL.*

Professional development workshop focused on intensive, practical exercises in learner-centred teaching

2015

**Teaching Toolkit,** *Teaching Support Centre (CAPE), EPFL.*

Professional development workshop focused on skills to manage classroom interactions and to design exercises to maximize student learning