José A. Ruipérez Valiente | Juan de la Cierva Researcher

University of Murcia - Región of Murcia, Murcia, Spain

□ +34 (868) 887 865 • ☑ jruiperez@um.es • ② joseruiperez.me
in josearuiperez • ೨ JoseARuiperez

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Research Interests

Learning Analytics, Game-based Assessment, Technology-enhanced Learning, Massive Open Online Courses, Human-Computer Interaction, Computational Social Science.

Biosketch

José A. Ruipérez-Valiente completed his B.Eng. and M.Eng. in Telecommunications at Universidad Católica de San Antonio de Murcia (UCAM) and Universidad Carlos III of Madrid (UC3M) respectively, graduating in both cases with the best academic transcript of the class. Afterwards, he completed his M.Sc. and Ph.D. in Telematics at UC3M while conducting research at Institute IMDEA Networks in the area of learning analytics and educational data mining. During this time, he completed two research stays of three months each, the first one at MIT and the second one at the University of Edinburgh. Then, José completed his Postdoc at the MIT Teaching Systems Lab and MIT Playful Journey Lab, and still remains affiliated and actively collaborating with them. He also held industry appointments at Multimedia Vocento, Accenture and ExoClick, combining experience in academia, research institutions and business companies. He currently holds the prestigious Spanish fellowship Juan de la Cierva at the University of Murcia, within the department of Information and Communications Engineering. He is accreditated by ANECA as 'Profesor Contratado Doctor'.

His work lies within the intersection of data and human-computer interaction, where he has worked mainly in online learning and games, but also across other contexts such as social networks or online advertising. He applies technology, analytical approaches and machine learning to understand human behavior and improve these contexts. He has experience over the entire data science process, from data capture, data tidying, feature engineering, exploratory analytics, machine learning and data-driven applications. He has received more than 20 academic/research awards and fellowships (like the BBVA Award as Outstanding Young CS Researcher), has published more than 55 scientific publications in high impact venues (like Science, Computers & Education or Computers in Human Behavior) and participated in over 12 funded projects, including contracts, regional, national, European and international ones (as principal investigator in two of them). He is very active within the professional community and has delivered over 10 invited talks/workshops, over 10 press releases and interviews, has been part of the scientific program committee of over 15 conferences/events and has reviewed for more than 20 journals. He is passionate about how learning occurs, solving data-based problems, teaching and sharing knowledge, yoga, nature and photography.

Education

Academic	
Massachusetts Institute of Technology	Boston
Postdoctorate (P.D.) in Learning Analytics in MOOCs and Games for Learning	
Universidad Carlos III of Madrid Doctor of Philosophy (Ph.D.) in Telematics, Cum Laude, International Doctor	Madrid orate 2014–2017
Universidad Carlos III of Madrid	Madrid
Master of Science (M.Sc.), Telematics Engineering, GPA: 8,48/10	2013–2014
Universidad Carlos III of Madrid	Madrid
Master of Engineering (M.Eng.), Telecommunication Engineering, Highest Gl	
Universidad Católica San Antonio of Murcia Bachelor of Engineering (B.Eng.) in Telecommunication Systems, Highest GR	Murcia PA 2007–2010
Experience	
Research & Academia Appointments	
University of Murcia	Murcia
Juan de la Cierva Researcher	07/2019 - Present
Massachusetts Institute of Technology (MIT) Postdoctoral Associate	Cambridge (MA) 04/2018 - 06/2019
ExoClick Data Scientist	Barcelona 05/2017 - 03/2018
Institute IMDEA Networks and Universidad Carlos III of Madrid	Madrid
Research Assistant and PhD candidate	01/2014 – 05/2017
Universidad Carlos III of Madrid Research Assistant	Madrid 07/2012 – 01/2014
Universidad Católica San Antonio of Murcia	Murcia
Research Intern	03/2010 - 06/2010
Honorary & Visiting Positions	
Massachusetts Institute of Technology (MIT) Research Affiliate	Cambridge (MA) 07/2019 – Present
University of Edinburgh Visiting Researcher	Edinburgh 09/2016 – 12/2016
Massachusetts Institute of Technology (MIT) Visiting Researcher	Cambridge (MA) 06/2015 - 9/2015
Industry	
Accenture Technology Solutions	Madrid
Software Engineer	12/2010 – 09/2011
Multimedia Communications Vocento TV and Radio Technical Intern	Murcia 06/2010 – 12/2010

Awards, Honors and Fellowships

Awards

- Outstanding Young Computer Science Researcher for my contributions to artificial intelligence and data analytics to understand human behavior in online educational environments issued by the Spanish Computer Science Association (SCIE) and BBVA Foundation [country-wide].
- o My Ph.D. thesis has received the following four awards:
 - Best PhD thesis award in "Technology and Education" sponsored by Telefonica Foundation, granted by the Official College of Telecommunications Engineers [country-wide].
 - Extraordinary Doctoral Award from Universidad Carlos III of Madrid to one of the best Ph.D.
 Thesis in Telematics Engineering during years 2016-2018 [degree-wide].
 - Award of the Spanish Chapter of the IEEE Education Society for Best doctoral thesis in technological applications in the field of education [country-wide].
 - eMadrid 2018 award to the best PhD thesis in research or development of educational technologies [country-wide].
- Received an Excellent Alumni award for my excellent career development issued by the Social Council of Universidad Carlos III of Madrid [university-wide].
- o Collaborator at the Best Pedagogical Innovation Project Award at UC3M [university-wide].
- o My M.Eng. thesis has received four awards:
 - Best final degree or MT Award "in new services, applications and digital business models" sponsored by Accenture, granted by COIT-AEIT [country-wide]
 - Award of the Spanish Chapter of the IEEE Education Society for Best final degree project or MT in technological applications in the field of education [country-wide]
 - eMadrid 2015 Award for Best final degree project or MT on research or development of educational technologies [country-wide]
 - Accenture Award for best MT in Telecommunications Engineering in the academic year 2012/2013 at the Universidad Carlos III de Madrid [degree-wide].
- o M.Eng. Telecommunications Engineering Outstanding Graduate of the Year Award and Best Academic Transcript (2011-2013) [degree-wide].
- B.Eng. in Telecommunication Systems Outstanding Graduate of the Year Award and Best Academic Transcript (2006-2010) [degree-wide].

Honors.

• The newspaper La Verdad de Murcia recognizes me as one of the 20 most noteworthy persons from Murcia (1.5 million inhabitants) in 2018 due to my accomplishments during the year [region-wide].

Scholarships & Fellowships.

- o Juan de la Cierva 'Formación' competitive fellowship from the Ministry of Science, Innovation and Universities of Spain (acceptance rate below 10%) (2019).
- o Data Consortium Fellowship from the University of Wisconsim-Madison (\$1.500) (2018).
- Scholarship from EATEL to assist to the 12th Joint European Summer School on Technology Enhanced Learning in Estonia (2016).
- I earned a full fellowship (all fees and salary included) from Institute IMDEA Networks to conduct my MSc and PhD in Telematics Engineering (total package of around €150.000 over 5 years) (2014).

Paper Awards and Nominations....

o Bester poster award of LAK 19 conference for paper [C17].

- o Paper [J6] was featured by Wiley as one of the best papers in 2017 from Wiley journals.
- o Honorable Mention at ACM Learning at Scale 2016 for paper [C12].
- o Runner up to the best demonstration paper award for paper [C8] at EC-TEL 2015.
- Paper [C6] was nominated for best full paper award at EC-TEL 2014.

Media Coverage and Press

Some news talking about me or my work:

- o Interview in newspaper 'La verdad' Link
- News about awards and stuff: University UCAM eMadrid network Murcia.com IMDEA
 Networks 1 IMDEA Networks 2
- o Popular TV Murcia interview Video
- Young CS Researcher Awards: Video FBBVA SCIE La Vanguardia Europa Press EFE
 Futuro Economista The Objective Expansion
- o Interview for MIT Open Learning Link
- o Onda Cero Radio interview Link
- o Interview for BBVA Foundation Link

Publications Under Review.....

- o Interview as one of the 20 most noteworthy persons from Murcia in 2018 Link
- Several international press talking about our article [J13]: Harvard Magazine EdSurge e-Literate
 InsideHighered El Mercurio Science Presse University World News Financial Times
- Our research about bots in Twitter in 2019 Spanish Elections 20 Minutos Agencia Sinc El Espanol - Europa Press - Genbeta - La Razon - La Sexta - La Vanguardia - La Verdad - Nueva Tribuna - University of Murcia - El País
- Several interviews and press realeases about two projects MIT-Spain "la Caixa" projects University
 of Murcia La Verdad 20 minutos La Vanguardia

Publications

Google Scholar – ResearchGate – ORCID – ResearcherID – Publons – Scopus – dblp.
Overview
Current summary of publications include 24 articles in journals, 26 publications in proceedings from
international conferences, 4 publications in workshop proceedings, 3 book chapters and 2 edited
volumes.

- JXX Pastor-Galindo, J., Zago, M., Nespoli, P., Lopez Bernal, S., Huertas Celdrán, A., Gil Pérez, M., Ruipérez-Valiente, J. A., Martínez Pérez, G., & Gómez Mármol F. (2020). Spotting political social bots in Twitter: A use case of the 2019 Spanish general election. IEEE Transactions on Network and Service Management. Impact factor as of 2019: 3.878, JCR(33/156), Q1, category: computer science, information systems pre-print.
- JXX Pastor-Galindo, J., Zago, M., Nespoli, P., Lopez Bernal, S., Huertas Celdrán, A., Gil Pérez, M., Ruipérez-Valiente, J. A., Martínez Pérez, G., & Gómez Mármol F. (2020). Twitter social bots: the 2019 Spanish general election data. Data in Brief pre-print.
- JXX Alexandron, G., Wiltrout, M.E., Berg, A. Karp, S., & Ruipérez-Valiente, J. A.. The Effects of Assessment Design on Academic Dishonesty, Learner Engagement, and Certification Rates in

- MOOCs. The Internet and Higher Education.
- JXX **Ruipérez-Valiente, J. A.** & Kim, Y. J. Effects of Solo vs. Collaboralve Play in a Digital Learning Game on Geometry: Results from a K12 Experiment. Computers & Education.
- JXX Fernández-Pacheco, A., Garcia S., **Ruipérez-Valiente, J. A.**, & Castro M. Remote experimentation through Arduino-based Remote Laboratories. IEEE Revista Iberoamericana de Tecnologias del Aprendizaje.

Journals.....

- J24 Expósito-Ventura, M. **Ruipérez-Valiente, J. A.**, and & Forné, J. 2020. Analyzing and Testing Viewability Methods in an Advertising Network. IEEE Access. Impact factor as of 2019: 3.745, JCR(35/156), Q1, category: computer science, information systems download ext link.
- J23 Jaramillo-Morillo, D. A., **Ruipérez-Valiente**, Solarte, M. and Ramírez, G. Identifying and Characterizing Students Suspected of Academic Dishonesty in SPOCs for Credit through Learning Analytics. International Journal of Educational Technology in Higher Education 2020 (In press). Impact factor as of 2019: 3.08, JCR(27/263), Q1, category: education & education research download ext link.
- J22 Huertas Celdrán, A., Ruipérez-Valiente, J.A., García Clemente, F.J., Rodríguez-Triana, M.J., Shankar, S.K. and Martínez Pérez, G. A Scalable Architecture for the Dynamic Deployment of Multimodal Learning Analytics Applications in Smart Classrooms. Sensors 2020, 20, 2923. Impact factor as of 2019: 3.275, JCR(15/64), Q1, category: instruments & instrumentation download ext link.
- J21 Domínguez Figaredo, D., Reich, J. & Ruipérez-Valiente, J. A. (2020). Learning analytics and data-driven education: a growing field (Analítica del aprendizaje y educación basada en datos: un campo en expansión). Revista Iberoamericana de Educación a Distancia (RIED), 23(2), pages 33-43 download English download Spanish ext link.
- J20 Loro-Garcia, F., Garcia S., **Ruipérez-Valiente, J. A.**, San Cristobal, E. and Castro M. (2020). Reviewing and Analyzing Peer Review Inter-Rater Reliability in a MOOC Platform. Computers & Education, 103894. Impact factor as of 2019: 5.296, JCR(11/106), Q1, category: computer science, interdisciplinary applications download ext link.
- J19 Ruipérez-Valiente, J. A. (2020). El Proceso de Implementación de Analíticas de Aprendizaje (The Implementation Process of Learning Analytics). Revista Iberoamericana de Educación a Distancia (RIED), 23(2), pages 85-101 – download Spanish - ext link.
- J18 Ruipérez-Valiente, J. A., Gaydos, M., Rosenheck L., Kim Y.J., & Klopfer E. (2020). Patterns of Engagement in an Educational Massive Multiplayer Online Game: A Multidimensional View (In press). IEEE Transactions on Learning Technologies Impact factor as of 2019: 2.714, Q1, JCR(36/263), category: education & educational research download ext link.
- J17 Littenberg-Tobias, J., **Ruipérez-Valiente, J. A.**, & Reich, J. (2020). Studying Learner Behavior in Online Courses With Free-Certificate Coupons: Results From Two Case Studies (2020). In International Review of Research in Open and Distributed Learning, 21(1), pages 1-22. Impact factor as of 2019: 2.297, JCR(59/263), Q1, category: education & educational research download ext link.
- J16 Belmonte, F. J., Martin, S., Sancristobal E., **Ruipérez-Valiente, J. A.** & Castro M. (2020). Overview of embedded systems to build reliable and safe ADAS and AD systems. IEEE Intelligent Transportation Systems Magazine (In press). Impact factor as of 2019: 3.363, JCR(72/266), Q2, category: engineering, electrical & electronic download ext link.
- J15 Ruipérez-Valiente, J. A., Halawa S., Slama R. & Reich, J. (2020). Using multi-platform learning

- analytics to compare regional and global MOOC learning in the Arab world. In Computers & Education, 103776. Impact factor as of 2019: 5.296, JCR(11/106), Q1, category: computer science, interdisciplinary applications download ext link.
- J14 Alexandron, G., Yoo, L. Y., Ruipérez-Valiente, J. A., Lee, S., & Pritchard, D. E (2019). Are MOOC Learning Analytics Results Trustworthy? With Fake Learners, They Might Not Be! In International Journal of Artificial Intelligence in Education, 9(4), pages 484-506. CiteScore as of 2019: 9.1, SJR(9/128), Q1, category: computational theory and mathematics. Springer International Publishing – download – ext link.
- J13 Reich, J. and Ruipérez-Valiente, J. A.: The MOOC Pivot. Science 363(6423), pages 130-131.
 2019. Impact factor as of 2019: 41.845, JCR(2/71), Q1, category: multidisciplinary sciences download ext link.
- J12 **Ruipérez-Valiente, J. A.**, Muñoz-Merino, P. J., & Delgado Kloos, C. Improving the prediction of learning outcomes in educational platforms including higher level interaction indicators. Expert Systems, 35(6) (2018). Impact factor as of 2018: 1.505, JCR(50/108), Q2, category: computer science, theory & methods download ext link.
- J11 Ruipérez-Valiente, J. A., Muñoz-Merino, P. J., Alexandron, G., and Pritchard, D. E. Using Machine Learning to Detect "Multiple-Account" Cheating and Analyze the Influence of Student and Problem Features. IEEE Transactions on Learning Technologies, 12(1), pages 112-122 (2017). Impact factor as of 2017: 1.869, JCR(64/238), Q2, category: education & educational research download ext link.
- J10 Muñoz-Merino, P. J., Méndez Rodríguez, E., Delgado Kloos, C., & Ruipérez-Valiente, J. A. (2017). Design, Implementation and Evaluation of SPOCs at the Universidad Carlos III de Madrid. Journal of Universal Computer Science, 23(2), 167–186. Impact factor as of 2017: 1.066, JCR(66/104), Q3, category: computer science, theory & methods download ext link.
- J9 Ruipérez-Valiente, J. A., Muñoz-Merino, P. J., & Delgado Kloos, C. (2017). Detecting and Clustering Students by their Gamification Behavior with Badges: A Case Study in Engineering Education. The International Journal of Engineering Education, 33(2), 816–830. Impact factor as of 2017: 0.575, JCR(73/86), Q4, category: engineering, multidisciplinary download ext link.
- J8 Alexandron, G.†, **Ruipérez-Valiente, J. A.**†, Chen, Z., Pedro J. Muñoz-Merino, & Pritchard, D. E. (†same author contribution, 2017) Copying@Scale: Using Harvesting Accounts for Collecting Correct Answers in a MOOC. Computers & Education, 108, 96–114. Impact factor as of 2017: 4.538, JCR(7/105), Q1, category: computer science, interdisciplinary applications download ext link.
- J7 Ruipérez-Valiente, J. A., Muñoz-Merino, P. J., Pijeira Díaz, H. J., Santofimia Ruiz, J., & Delgado Kloos, C. (2017). Evaluation of a Learning Analytics Application for Open edX Platform. Computer Science and Information Systems, 14(1), 51–73. Impact factor as of 2017: 0.613, JCR(93/104), Q4, category: computer science, software engineering download ext link.
- J6 Muñoz-Merino, P. J., Ruipérez-Valiente, J. A., Delgado Kloos, C., Auger, M. A., Briz, S., Castro, V. De, & Santalla, S. N. (2017). Flipping the Classroom to Improve Learning with MOOCs Technology. Computer Applications in Engineering Education, 25(1), 15–25. Impact factor as of 2017: 1.153, JCR(50/86), Q3, category: engineering, multidisciplinary download ext link.
- J5 **Ruipérez-Valiente, J. A.**, Muñoz-Merino, P. J., Gascón-Pinedo, J. A., & Delgado Kloos, C. (2017). Scaling to Massiveness with ANALYSE: A Learning Analytics Tool for Open edX. IEEE Transactions on Human-Machine Systems, 47(6), 909-914. 2017. Impact factor as of 2017: 2.563, JCR(6/22), Q1, category: computer science, cybernetics download ext link.

- J4 Ruipérez-Valiente, J. A., Muñoz-Merino, P. J., Delgado Kloos, C., Niemann, K., Scheffel, M., & Wolpers, M. (2016). Analyzing the Impact of Using Optional Activities in Self-Regulated Learning. IEEE Transactions on Learning Technologies, 9(3), 231–243. Impact factor as of 2016: 2.267, JCR(27/235), Q1, category: education & educational research download ext link.
- J3 Muñoz-Merino, P. J., Ruipérez-Valiente, J. A., Alario-Hoyos, C., Pérez-Sanagustín, M., & Delgado Kloos, C. (2015). Precise Effectiveness Strategy for analyzing the effectiveness of students with educational resources and activities in MOOCs. Computers in Human Behavior, 47, 108–118. Impact factor as of 2015: 2.88, JCR(21/129), Q1, category: psychology, multidisciplinary download ext link.
- J2 Leony, D., Muñoz-Merino, P. J., Ruipérez-Valiente, J. A., Pardo, A., Martín-Caro, D. A., & Delgado Kloos, C. (2015). Detection and evaluation of emotions in Massive Open Online Courses. Journal of Universal Computer Science, 21(5), 638–655. Impact factor as of 2015: 0.546, JCR(89/106), Q4, category: computer science, software engineering download ext link.
- J1 Ruipérez-Valiente, J. A., Muñoz-Merino, P. J., Leony, D. & Delgado Kloos, C. 2015. ALAS-KA: A learning analytics extension for better understanding the learning process in the Khan Academy platform. Computers in Human Behavior. 47, 139–148. Impact factor as of 2015: 2.88, JCR(21/129), Q1, category: psychology, multidisciplinary download ext link.

International Conferece Proceedings.

- C26 Maldonado-Mahauad, J., **Ruipérez-Valiente, J. A**, Pérez-Sanagustín, M., Jenner, M, Despujol, I., Turró, C. Staubitz, T., Rohloff, T., Montoro, G., & Reich, J. Participation of Latin America in MOOCs: Exploring Trends Across Providers. Proceedings of IEEE Learning with MOOCs VII (2020) download ext link.
- C25 Cuchumbe Pencua, Y. J., Vasquez Artunduaga, P. A., Jaramillo Morillo, D. A., Solarte Sarasty, M. F., & Ruipérez-Valiente, J. A. Students Sharing Answers: Tool for detecting dishonest practices in Massive Private Online Courses. Proceedings of IEEE Learning with MOOCs VII (2020) download ext link.
- C24 Kim Y.J., & Ruipérez-Valiente, J. A. Data-driven Game Design: The Case of Difficulty in Educational Games. Proceedings of the 15th European Conference on Technology Enhanced Learning (EC-TEL 2020). Heidelberg, Germany
- C23 Expósito-Ventura, M. **Ruipérez-Valiente, J. A.**, & Forné, J. 2020. Measuring Online Advertising Viewability and Analyzing its Variability Across Different Dimensions. Proceedings of the 10th edition of the International Conference on Web Intelligence, Mining and Semantics (WIMS 2020). Biarritz, France download ext link.
- C22 Ruipérez-Valiente, J. A., Jenner, M., Staubitz, T., Li, X., Rohloff, T., Halawa, S., Turro, C., Cheng, Y., Zhang, J., Despujol, I. & Reich, J. 2020. Macro MOOC Learning Analytics: Exploring Trends Across Global and Regional Providers. Proceedings of the 10th International Learning Analytics and Knowledge Conference (LAK'20) (pp. 518-523). Frankfurt, Germany. download ext link presentation.
- C21 Alexandron, G., Wiltrout, M.E., Berg, A. & **Ruipérez-Valiente, J. A.**. 2020. Assessment that matters: Balancing reliability an learner-centered pedagogy in MOOC assessment. Proceedings of the 10th International Learning Analytics and Knowledge Conference (LAK'20) (pp. 512-517). Frankfurt, Germany download ext link.
- C20 Alexandron, G., **Ruipérez-Valiente, J. A.**, & Pritchard, D. E. Towards a General Purpose Anomaly Detection Method to Identify Cheaters in Massive Open Online Courses. Proceedings of the 12th international conference on educational data mining (pp. 480-483). Montreal, Canada. 2019. download ext link.

- C19 Littenberg-Tobias, J., **Ruipérez-Valiente, J. A.**, & Reich, J. Impact of Free-Certificate Coupons on Learner Behavior in Online Courses: Results from Two Case Studies. Proceedings of the Sixth ACM Conference on Learning @ Scale (L@S'19). Article No. 41. Chicago (IL), USA. 2019. download ext link.
- C18 Ruipérez-Valiente, J. A., Halawa S. & Reich, J. Multiplatform MOOC Analytics: Comparing Global and Regional Patterns in edX and Edraak. Proceedings of the Sixth ACM Conference on Learning @ Scale (L@S'19). Article No. 3. Chicago (IL), USA. 2019. download ext link.
- C17 Kim Y.J., **Ruipérez-Valiente, J. A.**, Tan P., Rosenheck L. & Klopfer E. Towards a Process to Integrate Learning Analytics and Evidence-Centered Design for Game-based Assessment. In Companion Proceedings of the 9th International Learning Analytics and Knowledge Conference (LAK'19). Tempe (AZ), USA. 2019. download ext link.
- C16 Ruipérez-Valiente, J. A. & Reich J. Participation of the Arab World in MOOCs. Learning with MOOCs. In Learning With MOOCS (LWMOOCS) (pp. 47-50). IEEE. Madrid, Spain. 2018 download ext link.
- C15 Alexandron, G., **Ruipérez-Valiente, J. A.**, Lee, S., & Pritchard, D. E (2018). Evaluating the Robustness of Learning Analytics Results Against Fake Learners. In Proceedings of the 13th European Conference on Technology Enhanced Learning (pp. 74-87). Springer International Publishing download ext link.
- C14 Ruipérez-Valiente, J. A., Cobos, R., Muñoz-Merino, P. J., Andújar, A., & Delgado Kloos, C. (2017). Early Prediction and Variable Importance of Certificate Accomplishment in a MOOC. In Proceedings of the European Conference on Massive Open Online Courses (pp. 263–272). Springer International Publishing download ext link.
- C13 **Ruipérez-Valiente, J. A.**, Joksimovic, S., Kovanovic, V., Gasevic, D., Muñoz-Merino, P. J., & Delgado Kloos, C. (2017). A Data-driven Method for the Detection of Close Submitters in Online Learning Environments. In Proceedings of the 26th International Conference on World Wide Web Companion (pp. 361–368). ACM. CORE Rank: A* download ext link.
- C12 **Ruipérez-Valiente**, **J. A.**[†], Alexandron, G.[†], Chen, Z., & Pritchard, D. E. (†same author contribution, 2016). Using multiple accounts for harvesting solutions in MOOCs. In Proceedings of the Third ACM Conference on Learning@Scale (pp. 63–70) download ext link video.
- C11 Ruipérez-Valiente, J. A., Muñoz-Merino, P. J., & Delgado Kloos, C. (2016). Analyzing students' intentionality towards badges within a case study using Khan academy. In Proceedings of the Sixth International Conference on Learning Analytics & Knowledge (pp. 536–537). ACM. Google Scholar h5-index factor: 32 download ext link.
- C10 Pijeira Díaz, H. J., Santofimia Ruiz, J., **Ruipérez-Valiente, J. A.**, Muñoz-Merino, P. J., & Delgado Kloos, C. (2016). A Demonstration of ANALYSE: A Learning Analytics Tool for Open edX. In Proceedings of the Third ACM Conference on Learning@Scale (pp. 329–330). ACM. Google Scholar h5-index factor: 14 download ext link.
- C9 Ruipérez-Valiente, J. A., Muñoz-Merino, P. J., & Delgado Kloos, C. (2016). An analysis of the use of badges in an educational experiment. In Frontiers in Education Conference (pp. 1–8). IEEE. CORE Rank: B download ext link.
- C8 Pijeira, H. J., Santofimia, J., **Ruipérez-Valiente, J. A.**, Muñoz-Merino, P. J., & Delgado Kloos, C. (2015). Using Video Visualizations in Open edX to Understand Learning Interactions of Students. In 10th European Conference on Technology Enhanced Learning (pp. 522–525). Springer International Publishing. Google Scholar h5-index factor: 16 download ext link video
- C7 Ruipérez-Valiente, J. A., Muñoz-Merino, P. J., & Delgado Kloos, C. (2015). A Predictive

- Model of Learning Gains for a Video and Exercise Intensive Learning Environment. In International Conference on Artificial Intelligence in Education (pp. 760–763). Springer International Publishing. CORE Rank: A download ext link.
- C6 Ruipérez-Valiente, J. A., Muñoz-Merino, P. J., Delgado Kloos, C., Niemann, K., & Scheffel, M. (2014). Do Optional Activities Matter in Virtual Learning Environments? In Ninth European Conference on Technology Enhanced Learning (pp. 331–344). Springer International Publishing. Google Scholar h5-index factor: 16 download ext link.
- C5 Delgado Kloos, C., Muñoz-Merino, P. J., Muñoz-Organero, M., Alario-Hoyos, C., Pérez-Sanagustin, M., Parada G., H. A., Ruipérez-Valiente, J. A., Sanz, J. L. (2014). Experiences of running MOOCs and SPOCs at UC3M. In IEEE Global Engineering Education Conference, EDUCON (pp. 884–891) download ext link.
- C4 Santofimia Ruiz, J., Pijeira Díaz, H. J., **Ruipérez-Valiente, J. A.**, Muñoz-Merino, P. J., & Delgado Kloos, C. (2014). Towards the Development of a Learning Analytics Extension in Open edX. In Proceedings of the Second International Conference on Technological Ecosystems for Enhancing Multiculturality (pp. 299–306) download ext link.
- C3 Ruipérez-Valiente, J. A., Muñoz-Merino, P. J., & Delgado Kloos, C. (2014). A demonstration of ALAS-KA: A learning analytics tool for the Khan Academy platform. In 9th European Conference on Technology Enhanced Learning (EC-TEL 2014) (pp. 518–521) – download - ext link.
- C2 Ruipérez-Valiente, J. A., Muñoz-Merino, P. J., & Delgado Kloos, C. (2013). An architecture for extending the learning analytics support in the Khan Academy framework. In Proceedings of the First International Conference on Technological Ecosystem for Enhancing Multiculturality (pp. 277–284) download ext link.
- C1 Muñoz-Merino, P. J., **Ruipérez Valiente, J. A.**, & Kloos, C. D. (2013). Inferring higher level learning information from low level data for the Khan Academy platform. In Proceedings of the Third International Conference on Learning Analytics and Knowledge LAK'13 (pp. 112–116) download ext link.

Workshops Proceedings.

- W4 Martinez, P. A., Gomez, M. J., **Ruipérez-Valiente, J. A.**, Martínez Pérez, G., & Kim, Y. J. (2020). Visualizing Educational Game Data: A Case Study of Visualizations to Support Teachers. In Learning Analytics Summer Institute Spain. CEUR Workshop Proceedings download ext link.
- W3 Redondo, D., Muñoz-Merino, P. J., **Ruipérez-Valiente, J. A.**, Delgado Kloos, C., Pijeira Díaz, H. J., & Santofimia Ruiz, J. (2015). Combining Learning Analytics and the Flipped Classroom in a MOOC of maths. In International Workshop on Applied and Practical Learning Analytics (pp. 71–79). CEUR Workshop Proceedings download ext link.
- W2 Muñoz-Merino, P. J., **Ruipérez-Valiente, J. A.**, Alario-Hoyos, C., Pérez-Sanagustín, M., & Kloos, C. D. (2014). Analítica del Aprendizaje para la Evaluación Precisa de la Efectividad del Alumno con Actividades y Recursos Educativos. In Proceedings of the 9th Iberian Conference on Information Systems and Technologies (CISTI 2014) (pp. 1–6) download ext link.
- W1 Leony, D., Muñoz-Merino, P. J., Pardo, A., **Ruipérez-Valiente, J. A.**, Martín-Caro, D. A.,& Kloos, C. D. (2014). Rule-based detection of emotions in the Khan Academy platform. In Proceedings of the 5th Congreso Internacional sobre Calidad y Accessibilidad de la Formacion Virtual (CAFVIR 2014). International Workshop on Massive Open Online Courses (pp. 556–562). Antigua, Guatemala download ext link.

Book Chapters.

B3 Ruipérez-Valiente, J. A., Rosenheck L. & Kim Y.J. What Does Exploration Look Like? Painting a Picture of Learning Pathways Using Learning Analytics. In Game-Based Assessment Revisited. Advances in Game-Based Learning. (pp. 281-300). Springer. ISBN 978-3-030-15569-8 – download - ext link.

- B2 **Ruipérez-Valiente, J. A.**, Muñoz-Merino, P. J., & Delgado Kloos, C. (2015). Diseño e Implementación de un Módulo de Analítica de Aprendizaje, y su Aplicación para la Evaluación de Experiencias Educativas. In TICs para el Aprendizaje de la Ingeniería (TICAI) (pp. 77–84). ISBN 978-84-8158-711-1 download ext link.
- B1 Muñoz-Merino, P. J., **Ruipérez-Valiente, J. A.**, Moreno, J. L. S., & Kloos, C. D. (2015). Assessment activities in massive open on-line courses: Assessment activities in MOOCs. In Furthering higher education possibilities through massive open online courses (pp. 165-192). IGI Global. download ext link.

Edited Volumes

- E2 Calise, M., Delgado Kloos, C., Reich, J., **Ruipérez-Valiente, J. A.**, Shimshon, G., Staubitz, T., and Wirsing M. (2019). EMOOCs 2019 Work in Progress Papers of Research, Experience and Business Tracks (EMOOCs-WIP 2019). Naples, Italy, May 20-22, 2019. CEUR-WS. ISSN 1613-0073. URN ext link.
- E1 Calise, M., Delgado Kloos, C., Reich, J., **Ruipérez-Valiente, J. A.**, and Wirsing M. (2019). Digital Education: At the MOOC Crossroads Where the Interests of Academia and Business Converge. 6th European MOOCs Stakeholders Summit, EMOOCs 2019, Naples, Italy, May 20-22, 2019. LNCS 11475. Springer. ISBN 978-3-030-19874-9. doi ext link.

Scientifc Dissemination.

D1 **Ruipérez-Valiente**, **J. A.** ¿Deben los gobiernos poner límites a la inteligencia artificial? (Should governments regulate artificial intelligence?) The Conversation ES. link.

Participation in Events

Invited Talks.

- 16 Understanding students in digital education through learning analytics Seminar on Educational Innovations SINNE at the University of Cauca video link.
- 15 Plenary Round Table The Scalability of Online Degrees at EMOOCs 2019 conference program link.
- 14 Research in Learning Analytics vs. Learning Analytics in the University (2019). The challenge of digitalizing the university. Artificial intelligence and the personalization of learning – program video.
- I3 Design and Implementation of a Learning Analytics Module for the Khan Academy Platform (2015). 2nd World Congress on Systems Engineering and Information Technology, WCSEIT'15.
- 12 Design and Implementation of a Learning Analytics Module for the Khan Academy Platform. V eMadrid Workshop video.
- I1 ALASKA A Learning Analytics Tool for the Khan Academy Platform. Local-Learning Analytics Summer Institute video.

Refereed Presentations without Proceedings....

- P5 **Ruipérez-Valiente, J. A.**, Kim Y.J., Tan P., Rosenheck L. and Klopfer E. (2019). Can Learning Analytics Generate Trustworthy Assessment on a Geometry Game? In LAK Hackathon 2019: Trusted and Inclusive Learning Analytics Across Spaces with New Tools, Standards and Infrastructures
- P4 Ruipérez-Valiente, J. A. and Reich J (2018). Poster presentation of Patterns of Participation of the Arab World in MITx MOOC Portfolio. Festival of Learning. London, UK.
- P3 Alexandron, G., **Ruipérez-Valiente, J. A.**, & Pritchard, D. E. (2015). Evidence of MOOC Students Using Multiple Accounts to Harvest Correct Answers. In Learning with MOOCs II: A Workshop for Practitioners: New Approaches to Teaching & Learning. New York City (NY), USA video.
- P2 Ruipérez-Valiente, J. A., Muñoz-Merino, P. J., & Delgado Kloos, C. (2015). ANALYSE: A Learning Analytics Tool for Open edX. The Open edX Conference. Welleslay (MA), USA video
- P1 Kloos, C. D., Muñoz-merino, P. J., **Ruipérez-Valiente, J. A.**, Auger, M. A., Briz, S., Castro, V. De, & Santalla, S. N. (2014). A Successful Learning Experience using SPOCs. In Learning with MOOCs: A Practitioner's Workshop. Boston (MA), USA video.

Teaching

Undergraduate.....

- o Object Oriented Programming. University of Murcia (Spring 2020; Spring 2021)
- o Research and Quantitative Analysis II: Big Data. University of Murcia (Fall 2019; Fall 2020)

Undergraduate and Graduate Courses.

 CMS.594/CMS.894 Education Technology Studio. Massachusetts Institute of Technology (Spring 2019; Fall 2020).

Online Teaching.....

- o Education Technology Studio. MIT OpenCoursware (Spring, 2019) link.
- o MOOC on Digital Electronics. UNED COMA platform (1st edition, 2nd edition, special edition)
- o MOOC on Foundations to Open Education and OER. UNED COMA platform (1st edition).

Student Evaluation Committees.

- PhD Thesis Committee member of Daniel Pérez Berenguer. PhD in Computer Science. Universidad de Murcia (2020).
- PhD Thesis Committee member of Daniel Alberto Jaramillo Morillo. PhD in Telematics Engineering. Universidad del Cauca (2018).

Invited Seminars.

- Seminar on 'Understanding Students through Learning Analytics in the Digital Era: Case Studies in MOOCs and Games for Learning' – For the PhD Program at Universidad of Valladolid (2 hours, 2020, Valladolid, Spain)
- Seminar on 'From Academia to Industry and Back to Academia: How to Survive [and Succeed] in your Career Pathway' For the PhD Program at Universidad of Valladolid (1.5 hour, 2020, Valladolid, Spain)
- Seminar on 'Learning Analytics for the Evaluation of Competencies and Behaviors in Serious Games' – For the PhD Program at Universidad Complutense of Madrid (1 hour, 2019, Madrid, Spain).

- Seminar on 'Detection and impact of fake learners in Massive Open Online Courses' at HEC Paris (1.5 hour, January 8, 2019, Paris, France).
- Seminar on 'Detection and impact of fake learners in Massive Open Online Courses' at Institute IMDEA Networks (1 hour, October 29, 2018, Madrid, Spain).

Workshops & Trainings.....

- Workshop on Learning analytics design in game-based learning at JTEL Summer School 2019 (3 hours, June 5, Bari, Italy).
- o Training on 'Network Analysis' at business company ExoClick (4 hours, 2017, Barcelona, Spain).
- o Training on 'How to make data work for you' at business company ExoClick (4 hours, 2017, Barcelona, Spain).

Advising & Mentoring.....

Current students:

- Graduate Students:
 - Marta Expósito Ventura. PhD Telematics Engineering at Universitat Politecnica de Catalunya. Thesis "Contributions toward a better online advertising ecosystem".
 - Daniel Alberto Jaramillo Morillo. PhD in Telematics Engineering at Universidad del Cauca.
 Thesis "Characterizing Academic Dishonesty in Massive Private Online Courses (MPOC) with Academic Recognition through Learning Analytics".
 - Sergio Rubio Menor. MSc in Big Data Technologies. Universidad de Murcia.
- Undergraduate Students:
 - Manuel Jesús Gómez Moratilla. BEng in Computer Science. Universidad de Murcia.
 - Pedro Antonio Martínez Sánchez. BEng in Computer Science. Universidad de Murcia.
 - Jose Ramón Guillén López. BEng in Computer Science. Universidad de Murcia.

Past students:

o César Ugarte Cerrato. MEng Telecommunications at Universidad Carlos III of Madrid. Thesis "Design and implementation of a learning analytics toolkit for Open edX" (2016).

Specific Teaching Training Received.....

- o MIT Kaufman Teaching Certificate Program (2018).
- o Training of University of Murcia in Online Evaluations (2 hours, 2020).

Other Activities

- Scientific dissemination with activity organization "Interactive activity about energy consumption" as part of ODSesiones at the University of Murcia (8 hours, 2019).
- Scientific dissemination activity organization "Gincana del diente azul" on the Week of the Science and Technology of Murcia (19 hours, 2009).
- Scientific dissemination activity organization "Contempla el mundo a cámara lenta" on the Week
 of the Science and Technology of Murcia (22 hours, 2008).

Professional Service

Chairs or Senior Committee.

- o Steering Committee Member of Learning with MOOCs 2019–2020
- o Steering Committee Member of Learning @ Scale 2019–2020
- o Program Track Co-Chair European Conference on MOOCs 2019

Technical Program Committee (TPC)..... TPC Designing Contingent Feedback for Massive Open Online Courses (CoFeeMOOC) 2020

- o TPC Immersive Learning Research Network (iLRN) 2020
- TPC Member European Conference on Technology-enhanced Learning (ECTEL) 2020
- TPC Member EATEL Summer School on Technology Enhanced Learning (JTELSS) 2020
- TPC Member of the International Conference on Education and Technology in Sciences (CISETC)
- o TPC Member of the International Conference on Human and Social Analytics (HUSO) 2020
- o TPC Member of Learning Analytics and Knowledge (LAK) conference 2020
- TPC Member of Culturally Inclusive Learning Analytics Workshop (CILA) 2019
- o TPC Member of AdKDD Workshop 2019-2020
- o TPC Member Artificial Intelligence in Education (AIED) 2019–2020
- o TPC Member MIT LINC Conference 2019
- o TPC Member IEEE Conference on Teaching, Assessment and Learning for Engineering (TALE) 2018-2020

Event Organization.

- o Global Learning @ Scale Workshop co-held with the 2020 Learning @ Scale Conference. Atlanta (USA).
- o Co-organizer of the LAKathon2020: The 6th Learning Analytics Hackathon. Frankfurt (Germany)

Grant Evaluator.

Israel Science Foundation (ISF)

Journal Reviewer.....

I have performed ad-hoc reviews as an expert for more than 20 journals:

- 1. Journal of Behavior and Information Technology
- IEEE Transactions on Learning Technologies
- 3. Journal of Learning Analytics
- 4. Computers in Human Behavior
- 5. EURASIA Journal of Mathematics, Science and Technology Education
- 6. Journal of Universal Computer Science
- 7. Applied Soft Computing
- 8. IEEE Journal of Latin-American Learning Technologies
- 9. Journal of Interactive Media in Education
- 10. Knowledge-Based Systems
- 11. IEEE Access
- 12. Estudios sobre educación
- 13. MDPI Sociel Sciences
- 14. Revista Iberoamericana de Educación a Distancia
- 15. Science Advances
- 16. MDPI Sustainability
- 17. MDPI Future Internet
- 18. MDPI Computation
- 19. MDPI Sensors
- 20. Journal of Business Research
- 21. British Journal of Educational Technology
- 22. MDPI Electronics

- 23. Computers & Education
- 24. Journal of Computer Assisted Learning

External Reviewer....

- o Connected Learning Submit 2020
- o Solve's Challenge 2018
- o ACM CHI Conference on Human Factors in Computing Systems 2018
- Learning Analytics and Knowledge Conference 2016
- o Australasian Society for Computers in Learning in Tertiary Education Conference 2016
- o Frontiers in Education Conference 2016
- Learning with MOOCs 2015

Editorial

- o Associated Editor Journal of the Iberoamerican Review of Digital Education Journal (RIED) 2020.
- o Editor of CEUR-WS.org, the biggest open and free online proceedings for scientific conferences and workshops on computer science, information systems and information technology. 2019–2020.
- Guest Editor for Special Issue on "Learning Analytics & Data-driven Education" in the Iberoamerican Review of Digital Education Journal (RIED).
- Guest Editor for Special Issue on "The Role of Sensors, Wearables, and IoT Devices in Learning Analytics and Educational Data Mining" in Sensors journal.

Academic Service.

o PhD student representative in the Telematics Engineering Department from 2014-2016

Projects

Selected projects where I have participated:

European Research Projects.....

- Project Name: PALANTIR Practical Autonomous Cyberhealth for resilient SMEs & Microenterprises (H2020-SU-DS-2019, 883335)
 - **Duration**: 2020-09-01 2023-08-31
 - Funding agency: European Commission
 - Partners: DBC EUROPE (Belgium), Infili Technologies (Greece), Fundacio i2cat (Spain), Universidad de Murcia (Spain), Space Hellas Anonymi Etaireia Systimata Kai Ypiresies Tilepikoinoionpliroforikis Asfaleias (Greece), Hewlett-Packard Limited (UK), NEC Laboratories Europe GMBH (Germany), Telefónica Investigación y Desarrollo (Spain), Politecnico Di Torino (Italy), Incites Consulting SARL (Luxembourg), National Center for Scientific Research "Demokritos" (Greece), Orion Innovations (Greece), Ubitech Limited (Cyprus), Sfera IT Storitve Doo (Slovenia), Stratiotiki Sxoli Evelpidon (Greece).
 - Role: Researcher.
 - **Budget**: €5,267,976.25
- Project Name: 5GZORRO Zero-Touch Security and Trust for Ubiquitous Computing and Connectivity in 5G Networks (H2020-ICT, 871533)
 - **Duration**: 2019-11-01 2022-04-30
 - Funding agency: European Commission
 - Partners: Fundació i2CAT (Spain), Universidad de Murcia (Spain), Telefónica Investigación y Desarrollo (Spain), Nextworks (Italy), Intracom (Greece), Ubiwhere LDA (Portugal), Bartr

Holding Limited (UK), Comunicare Digitale APS (Italy), Malta Communication Authority (Malta), Fondazione Bruno Kessler (Italy), IBM Israel Science & Technology Ltd (Israel), Altice Lab (Portugal), ATOS (Spain).

Role: Researcher.Budget: €4,999,965.00

International Research Projects....

- Project Name: Using Learning Analytics in Games for Learning for the Evaluation of Key Competences for the 21st Century
 - **Duration**: 2020-01-01 2021-08-01
 - Funding agency: MIT-Spain "la Caixa" Foundation Seed Fund. MIT International Science and Technology Initiatives (MISTI) program.
 - **Partners**: Massachusetts Institute of Technology, Universidad de Murcia, Universidad Complutense de Madrid
 - Role: Principal investigator from Universidad de Murcia
 - **Budget**: \$24,001.00
- o Project Name: Global and Regional MOOC Learning Analytics Across Providers and Nationalities
 - **Duration**: 2020-01-01 2021-08-01.
 - Funding agency: MIT-Spain "la Caixa" Foundation Seed Fund. MIT International Science and Technology Initiatives (MISTI) program.
 - Partners: Massachusetts Institute of Technology and Universidad de Murcia.
 - Role: Principal investigator from Universidad de Murcia.
 - **Budget**: \$22,936.00.

National Research Projects.

- o **Project Name**: SAFEMAN: A unified management framework for cybersecurity and safety in the manufacturing industry (RTI2018-095855-B-I00).
 - **Duration**: 2019-01-01 2021-12-31
 - Funding agency: Ministerio de Ciencia, Innovación y Universidades, España.
 - Partners: Universidad de Murcia
 - Role: ResearcherBudget: €161,051.00
- Project Name: EAGER: Reimagining Teachers' Assessment Literacy Using Game-Based Learning Analytics (#1935450)
 - **Duration**: 2019-08-15 2021-07-31.
 - Funding agency: National Science Foundation of the United States of America
 - Partners: Massachusetts Institute of Technology
 - Role: ResearcherBudget: \$300,000.00
- Project Name: XQ Game-based Assessment Model: A call for continuous, ubiquitous and rigorous assessment
 - Duration: 2018-01-01 2022-01-01Funding agency: US XQ Institute
 - Partners: Massachusetts Institute of Technology
 - Role: Researcher
- Project Name: International Patterns of Participation and Completion in Massive Open Online Courses

Duration: 2018-04-09 – 2019-06-30Funding agency: MIT private funding

- Partners: Massachusetts Institute of Technology and Harvard

- Role: Researcher

Project Name: RESET: Reformulando ecosistemas escalables educativos (TIN2014-53199-C3-1-R)

- **Duration**: 2015-01-01 - 2019-06-30

- Funding agency: Ministerio de Economía, Industria y Competitividad
- **Partners**: Universidad Carlos III de Madrid, Universidad de Valladolid, Universidad Pompeu Fabra

Role: ResearcherBudget: €136,900.00

 Project Name: EEE-Virtual: Orquestando espacios educativos especulares (TIN2011-28308-C03-01).

- **Duration**: 2012-01-01 - 2015-07-31

- Funding agency: Ministerio de Ciencia, Innovación y Universidades
- **Partners**: Universidad Carlos III de Madrid, Universidad de Valladolid, Universidad Pompeu Fabra

Role: ResearcherBudget: €165,165.00

Regional Research Projects....

- Project Name: eMadrid. Investigación y desarrollo de Tecnologías Educativas en la Comunidad de Madrid (S2013/ICE-2715)
 - **Duration**: 2014-10-01 2018-12-31
 - Funding agency: Comunidad de Madrid. Consejería de Educación e Investigación
 - Partners: Universidad Carlos III de Madrid, Universidad Autonoma de Madrid, Universidad Nacional Española Distancia, Universidad Politécnica de Madrid, Universidad Complutense de Madrid y Universidad de Alcala

Role: ResearcherBudget: €342,264.63

 Project Name: Investigación y desarrollo de tecnologías para el e-learning en la comunidad de Madrid (S2009/TIC-1650)

- **Duration**: 2010-01-01 - 2014-05-31

- Funding agency: Comunidad de Madrid
- Partners: Universidad Carlos III de Madrid, Universidad Autonoma de Madrid, Universidad Nacional Española Distancia, Universidad Politécnica de Madrid, Universidad Complutense de Madrid y Universidad de Alcala

Role: ResearcherBudget: €524,511.18

R&D Contracts....

Project Name: INSURANCE: IoT and Sensors Networks Securization Using Artificial Intelligence.

- **Duration**: 2020-03-20 - 2021-03-31

- **Funding agency**: Federal Office for Defence Procurement Armasuisse
- Partners: Universidad de Murcia and Federal Office for Defence Procurement Armasuisse

- Role: Researcher

o Project Name: LAGA: Learning Analytics and Game-based Assessment

- **Duration**: 2020-01-01 - 2022-12-31

- **Funding agency**: Massachusetts Institute of Technology

- Partners: Universidad de Murcia and Massachusetts Institute of Technology

- Role: Researcher

 Project Name: SOUNDS: Securing communications in a distributed platform for spectrum measurements leveraging heterogeneous sensors

- **Duration**: 2019-10-01 - 2019-11-30

- Funding agency: Federal Office for Defence Procurement Armasuisse
- Partners: Universidad de Murcia and Federal Office for Defence Procurement Armasuisse

- Role: Researcher

- Project Name: Indra Cyber Range Duration: 2019-07-11 2020-09-30
 - Funding agency: Indra Systems S.A.

- Partners: University of Murcia and Indra Systems S.A.

- Role: Researcher

Languages

English: Full professional proficiency. **Spanish**: Native or bilingual proficiency.

Skills

Data science: Python, SQL, R, SPSS statistical analysis, applied machine learning

Full stack development: J2EE, Django, JavaScript, AJAX, metadata languages, web services, MySQL, Oracle, MongoDB, GAE, AWS.

Writing and presentation: Microsoft Office (Word, Power Point, Visio, Excel), LATEX, Keynote, Photoshop, Inkscape.

Soft: Verbal and non-verbal communication, leadership, problem solving, critical thinking, self-management, creative, initiative, emotional intelligence.

Open Source Contributions

- ANALYSE (Add-on of learNing Analytics Support for open Edx)
 - ANALYSE is learning analytics tool developed for Open edX. It extends its functionality with 12 new visualizations.
 - ANALYSE has received a lot of attention from different institutions, it was presented at the Open edX conference, received several wards and it was open sourced for the community (GitHub code link, video example)
 - Several publications are based on ANALYSE results (e.g. J6, J7, W5, C4, C8, C10)
- ALAS-KA (Add-on of the Learning Analytics Support for the Khan Academy)
 - ALAS-KA is a plug in for Khan Academy that incorporates 21 new visualizations that are accesible by teachers and students.
 - This tool has been open sourced (GitHub code link, video example) and has received interest from many institutions.

- ALAS-KA was successfully tested in educational experiences at Universidad Carlos III of Madrid.
- A number of publications are based on its implementation and deployment (e.g. J1, B2, C1, C2, C3)
- o I developed an algorithm as part of publication [C13] to detect close submitters in online environments (i.e. users that tend to submit very close in time over a course due to potential academic dishonesty). This can help multiple account cheating and authorized collaborations (passing answers to other peers) in online environments. The algorithm is open source and available in this GitHub repo.

Accreditations from ANECA

- Profesor Contratado Doctor (#2019-7140)
- Profesor de Universidad Privada (#2019-7142)
- Profesor Ayudante Doctor (#2019-7141).

References

Some people I have worked with. More available upon request:

- o Massachusetts Institute of Technology: Prof. Justin Reich (jreich@mit.edu)
- o Universidad Carlos III of Madrid: Prof. Carlos Delgado Kloos (cdk@it.uc3m.es)
- o Monash University: Prof. Dragan Gašević (dgasevic@acm.org)
- University of Murcia: Prof. Gregorio Martínez Pérez (gregorio@um.es)
- o Weizmann Institute of Science: Prof. Giora Alexandron (giora.alexandron@weizmann.ac.il)