

Matias Fernando GARCIA-CONSTANTINO

PERSONAL DATA

PLACE AND DATE OF BIRTH: Mexico City — 29 January 1983
EMAIL: matias.garcia.constantino@gmail.com
m.garcia-constantino@ulster.ac.uk
WEBSITE: <https://www.garcia-constantino.com>

WORK EXPERIENCE

- OCT 2020 - CURRENT Lecturer in Computer Science at the SCHOOL OF COMPUTING OF ULSTER UNIVERSITY, Belfast, UK
Teaching Human-Computer Interaction and System Development modules. Supervising final year undergraduate students, and MSc and PhD students. Researching in the area of Connected Health at the Pervasive Computing Research Group as part of the Northern Ireland Connected Health Innovation Centre (NI-CHIC). NI-CHIC promotes business led collaborative Connected Health research between academia, industry and government.
- MAR 2017 - SEP 2020 Research Associate at the SCHOOL OF COMPUTING OF ULSTER UNIVERSITY, Jordanstown, UK
Research on the area of Ambient Assisted Living (AAL) at the Smart Environments Research Group (SERG) as part of the Northern Ireland Connected Health Innovation Centre (NI-CHIC). NI-CHIC promotes business led collaborative Connected Health research between academia, industry and government. I have been involved in the following projects: Worktivity (a research-based mobile app to help reduce occupational sitting in office environments), iMPAKT (a research-based mobile app to collect and analyse data from Key Performance Indicators (KPIs) from nurses), a project to address Social Isolation in the elderly using sensors, and a project to use thermal images and data analysis for an early detection of Diabetic Foot Disease. I was awarded a Global Challenges Research Fund (GCRF) Building Capacity and Networking project grant to develop low-cost monitoring to assist people with dementia and their caregivers using smart microphones. The GCRF project was in collaboration with CICESE (Centro de Investigación y de Educación Superior de Ensenada) from Mexico.
- MAR 2015 - FEB 2017 KTP Associate at the COMPUTER SCIENCE DEPARTMENT OF THE UNIVERSITY OF LIVERPOOL and RIVERVIEW LAW, Bromborough, UK
Research on the use of Artificial Intelligence techniques to develop a software product to automate existing manual processes involving the identification, extraction and manipulation of data from certain types of legal documents. Data captured was then used by intelligent automatic visualisation and reasoning mechanisms. The research was part of a Knowledge Transfer Partnership (KTP) between the University of Liverpool and Riverview Law. In addition to the main KTP project, I also contributed with an Information Extraction software tool for Riverview Law and Vodafone's Project Swift.
- SEP 2013 - FEB 2015 Research Associate at the COMPUTING SCIENCE DEPARTMENT OF NEWCASTLE UNIVERSITY, Newcastle upon Tyne, UK

Research on the use of Data Mining techniques for understanding the behaviour of car drivers in real and simulated scenarios. The research was part of the Social Inclusion through the Digital Economy (SiDE) project and was aimed at developing predictive models that could improve the safety of drivers and other road users.

- JAN 2010 - MAY 2013 Demonstrator at the COMPUTER SCIENCE DEPARTMENT OF THE UNIVERSITY OF LIVERPOOL, Liverpool, UK
Part-time job in which I demonstrated practicals related to Computer Science subjects to undergraduate students in a laboratory.
- MAR - SEP 2009 Data Analyst and Programmer at CORPORACIÓN POWER BUILDERS, Mexico City, Mexico
Data Mining consulting company that offers analytical solutions to private companies and government
Took a course on the SAS programming language. I participated in a project in the area of business intelligence of Banamex, a subsidiary of Citigroup, by cleaning databases, optimising code, writing documentation and migrating data.
- FEB - APR 2009 Java Instructor at CENTRO DE INVESTIGACIÓN CIBERNÉTICA, Mexico City, Mexico
Private institution that provides training on subjects related to Computer Science
Taught a 60-hour course on the Java programming language at a beginners/intermediate level.
- SEP 2007 - OCT 2008 Junior Java Programmer at EMERK2 DESARROLLOS, Mexico City, Mexico
Consulting company specialised in creating Java applications under the J2EE standard
Started as a part of a training program funded by the Mexican government in which a software project was delivered. Later I participated as a database designer and programmer in other projects for companies such as Schneider Electric.

EDUCATION

- OCT 2020 - JUN 2022 Postgraduate Certificate in HIGHER EDUCATION PRACTICE,
Ulster University, Jordanstown, UK
- OCT 2009 - SEP 2013 Doctor of Philosophy in COMPUTER SCIENCE,
University of Liverpool, Liverpool, UK
Department of Computer Science
Research area: Data Mining
Thesis: "On The Use Of Text Classification Methods
For Text Summarisation"
Supervisor: Prof. Frans COENEN
- MAY - OCT 2007 Postgraduate diploma in INFORMATION TECHNOLOGIES,
National Autonomous University of Mexico
(UNAM), Mexico City
- DEC 2001 - JAN 2007 Undergraduate degree in COMPUTER ENGINEERING,
National Autonomous University of Mexico
(UNAM), Mexico City
Faculty of Engineering
Thesis: "Developing the AdSense module for the Sch-
neider Electric Mexico portal"
Supervisor: Dr. Stalin MUÑOZ

PUBLICATIONS

- 2022 -M. Ortiz-Barrios, E. Jarpe, M. Garcia-Constantino, I. Cleland, C. Nugent, S. Arias-Fonseca and N. Jaramillo-Rueda. *Predicting Activity Duration in Smart Sensing Environments Using Synthetic Data and Partial Least Squares Regression: The Case of Dementia Patients*. *Sensors*, 2022, Vol. 22, No. 14:5410. Journal paper. July 2022.
- C. J. Ronquillo-Cana, P. Pancardo, M. Silva, J. A. Hernandez-Nolasco and M. Garcia-Constantino. *Fuzzy System to Assess Dangerous Driving: A Multidisciplinary Approach*. *Sensors*, 2022, Vol. 22, No. 10:3655. Journal paper. May 2022.
- A. M. Samuel and M. Garcia-Constantino. *User-centred prototype to support wellbeing and isolation of software developers using smart-watches*. *Advanced Notes in Information Science*, 2022, Vol. 1, pp140-151. Journal paper. April 2022.
- N. Irvine, C. Saunders, M. Garcia-Constantino, P. Moorhead, D. Branagh and C. Nugent. *Design of a Rule-Based and ADL Analysis System to Support Care of the Elderly*. *Pervasive Health 2021 - 15th EAI International Conference on Pervasive Computing Technologies for Healthcare*, 2021. Conference paper. March 2022.
- M. Ortiz-Barrios, M. Garcia-Constantino, C. Nugent and I. Alfaro-Sarmiento. *A Novel Integration of IF-DEMATEL and TOPSIS for the Classifier Selection Problem in Assistive Technology Adoption for People with Dementia*. *International Journal of Environmental Research and Public Health*, 2022, Vol. 19, No. 3:1133. Journal paper. January 2022.

- 2021 -I. Ekerete, M. Garcia-Constantino, Y. Diaz-Skeete, C. Nugent and J. McLaughlin. *Fusion of Unobtrusive Sensing Solutions for Sprained Ankle Rehabilitation Exercises Monitoring in Home Environments*. *Sensors*, 2021, Vol. 21, No. 22:7560. Journal paper. November 2021.
- O. J. Ajayi, J. Rafferty, J. Santos, M. Garcia-Constantino and Z. Cui. *BECA: A Blockchain-Based Edge Computing Architecture for Internet of Things Systems*. *IoT*, 2021, Vol. 2, No. 4, pp610-632. Journal paper. October 2021.
- I. Ekerete, M. Garcia-Constantino, A. Konios, M. A. Mustafa, Y. Diaz-Skeete, C. Nugent and J. McLaughlin. *Fusion of Unobtrusive Sensing Solutions for Home-Based Activity Recognition and Classification Using Data Mining Models and Methods*. *Applied Sciences*, 2021, Vol. 11, No. 19:9096. Journal paper. September 2021.
- M. A. Mustafa, A. Konios and M. Garcia-Constantino. *IoT-Based Activities of Daily Living for Abnormal Behavior Detection: Privacy Issues and Potential Countermeasures*. *IEEE Internet of Things Magazine*, Vol. 4, No. 3, pp90-95. Journal paper. August 2021.
- A. Stephenson, M. Garcia-Constantino, M. Murphy, S. McDonough, C. Nugent and J. Mair. *The “Worktivity” mHealth intervention to reduce sedentary behaviour in the workplace: a feasibility cluster randomised controlled pilot study*. *BMC Public Health*, 2021, Vol. 21, No. 1416, pp1-15. Journal paper. July 2021.
- P. Pancardo, J. A. Hernandez-Nolasco, M. A. Wister and M. Garcia-Constantino. *Dynamic Membership Functions for Context-Based Fuzzy Systems*. *IEEE Access*, 2021, Vol. 9, pp29665-29676. Journal paper. February 2021.
- N. Zacarias-Morales, P. Pancardo, J. A. Hernandez-Nolasco and M. Garcia-Constantino. *Attention-Inspired Artificial Neural Networks for Speech Processing: A Systematic Review*. *Symmetry*, 2021, Vol. 13, No. 2. Journal paper. January 2021.
- 2020 -S. Chan, K. Dittakan and M. Garcia-Constantino. *Image Texture Analysis for Medical Image Mining: A Comparative Study Direct to Osteoarthritis Classification using Knee X-ray Image*. *International Journal on Advanced Science, Engineering and Information Technology*, Vol. 10, No. 6, pp2189-2199, 2020. Journal paper. December 2020.
- I. H. Lopez-Nava, L. M. Valentin-Coronado, M. Garcia-Constantino and J. Favela. *Gait Activity Classification on Unbalanced Data from Inertial Sensors Using Shallow and Deep Learning*. *Sensors*, 2020. Journal paper. August 2020.
- I. Ekerete, M. Garcia-Constantino, Y. Diaz-Skeete, O. Giggins, M. A. Mustafa, A. Konios, P. Pouliet, C. Nugent and J. McLaughlin. *Data Mining and Fusion of Unobtrusive Sensing Solutions for Indoor Activity Recognition*. 42nd Annual International Conference of the IEEE Engineering in Medicine and Biology Society (EMBC). Conference paper. July 2020.

- M. Ortiz-Barrios, C. Nugent, M. Garcia-Constantino and G. Jimenez-Delgado. *Identifying the Most Appropriate Classifier for Underpinning Assistive Technology Adoption for People with Dementia: An Integration of Fuzzy AHP and VIKOR Methods*. International Conference on Human-Computer Interaction (HCII2020), 2020. Conference paper. July 2020.
- A. Stephenson, M. Garcia-Constantino, S. McDonough, M. Murphy, C. Nugent and J. Mair. *Iterative four-phase development of a theory-based digital behaviour change intervention to reduce occupational sedentary behaviour*. Digital Health, 2020. Journal paper. March 2020.
- T. McCance, B. Lynch, C. Boomer, D. Brown, C. Nugent, A. Ennis, M. Garcia-Constantino, I. Cleland, D. Edgar, E. Radborn and V. Wilson. *Implementing and Measuring Person-centredness using an APP for Knowledge Transfer: the iMPAKT App*. International Journal for Quality in Health Care, 2020. Journal paper. March 2020.
- M. Garcia-Constantino, A. Konios, M. A. Mustafa, C. Nugent and G. Morrison. *Ambient and Wearable Sensor Fusion for Abnormal Behaviour Detection in Activities of Daily Living*. PervasiveHealth: Pervasive Computing Technologies for Healthcare. 18th IEEE International Conference on Pervasive Computing and Communications (PerCom2020), 2020. Conference paper. February 2020.
- 2019 -I. H. Lopez-Nava, M. Garcia-Constantino and J. Favela. *Recognition of Gait Activities Using Acceleration Data from A Smartphone and A Wearable Device*. 13th International Conference on Ubiquitous Computing and Ambient Intelligence (UCAmI2019), 2019. Conference paper. November 2019.
- N. Hernandez-Cruz, M. Garcia-Constantino, J. Beltran-Marquez, P. Hecker, J. Favela, J. Rafferty, I. Cleland, I. H. Lopez-Nava, B. Arnrich and I. McChesney. *Prototypical System to Detect Anxiety Manifestations by Acoustic Patterns in Patients with Dementia*. European Alliance for Innovation (EAI) Transactions on PervasiveHealth 2019, 2019. Journal paper. August 2019.
- A. Konios, M. Garcia-Constantino, S.-R. G. Christopoulos, M. A. Mustafa, I. Ekerete, C. Shewell, C. Nugent and G. Morrison. *Probabilistic Analysis of Temporal and Sequential Aspects of Activities of Daily Living for Abnormal Behaviour Detection*. 19th IEEE International Conference on Ubiquitous Intelligence and Computing (UIC2019), 2019. Conference paper. August 2019.
- D. Cruz-Sandoval, J. Beltran-Marquez, M. Garcia-Constantino, L. A. Gonzalez-Jasso, J. Favela, I. H. Lopez-Nava, I. Cleland, A. Ennis, N. Hernandez-Cruz, J. Rafferty, J. Synnott and C. Nugent. *Semi-automated Data Labeling for Activity Recognition in Pervasive Healthcare*. Intelligent Sensors Journal: Selected Papers from UCAmI2018 - The 12th International Conference on Ubiquitous Computing and Ambient Intelligence (UCAmI2018), 2019. Journal paper. July 2019.

- S. Quinn, C. Saunders, I. Cleland, C. Nugent, M. Garcia-Constantino, J. Cundell, G. Madill and G. Morrison. *A Thermal Imaging Solution for Early Detection of Pre-ulcerative Diabetic Hotspots*. 41st Annual International Conference of the IEEE Engineering in Medicine and Biology Society (EMBC2019), 2019. Conference paper. July 2019.
- N. Hernandez-Cruz, M. Garcia-Constantino, J. Beltran-Marquez, D. Cruz-Sandoval, I. H. Lopez-Nava, I. Cleland, J. Favela, C. Nugent, A. Ennis, J. Rafferty and J. Synnott. *Study Design of an Environmental Smart Microphone System to Detect Anxiety in Patients with Dementia*. DigiStress: Understanding the Interdependency between Stress and Digital Technologies. Pervasive Health 2019 - 13th EAI International Conference on Pervasive Computing Technologies for Healthcare, 2019. Conference paper. May 2019.
- J. Rafferty, J. Medina-Quero, S. Quinn, C. Saunders, I. Ekerete, C. Nugent, J. Synnott and M. Garcia-Constantino. *Thermal Vision Based Fall Detection via Logical and Data driven Processes*. 4th International Conference on Big Data, Cloud Computing, and Data Science Engineering (BCD2019), 2019. Conference paper. May 2019.
- I. Ekerete, O. Giggins, M. Garcia-Constantino, C. Nugent and J. McLaughlin. *An Unobtrusive Measurement of Upper Extremity Velocity During Post-Stroke Rehabilitation Exercises*. 2019 IEEE EMBS International Conference on Biomedical & Health Informatics (BHI2019), 2019. Conference paper. May 2019.
- M. Garcia-Constantino, A. Konios, I. Ekerete, S.-R. G. Christopoulos, C. Shewell, C. Nugent and G. Morrison. *Probabilistic Analysis of Abnormal Behaviour Detection in Activities of Daily Living*. Pervasive-Health: Pervasive Computing Technologies for Healthcare. 17th IEEE International Conference on Pervasive Computing and Communications (PerCom2019), 2019. Conference paper. March 2019.
- M. Garcia-Constantino, J. Beltran-Marquez, D. Cruz-Sandoval, I. H. Lopez-Nava, J. Favela, A. Ennis, C. Nugent, J. Rafferty, I. Cleland, J. Synnott and N. Hernandez-Cruz. *Semi-automated Annotation of Audible Home Activities*. ARDUOUS - 3rd International Workshop on Annotation of user Data for Ubiquitous Systems. 17th IEEE International Conference on Pervasive Computing and Communications (PerCom2019), 2019. Conference paper. March 2019.
- 2018 -M. Garcia-Constantino, J. Synnott, C. Nugent, A. Burns, M. Little and D. Samson. *The Desirability of the Use of Technology to Prevent Social Isolation of Older Adults*. Digital Technology and Older People: Facilitating and Encouraging Safe and Fun Adoption. 32nd BCS Human Computer Interaction Conference (HCI2018). ACM 2018. Conference paper. July 2018.
- M. Garcia-Constantino, C. Nugent, A. Stephenson, S. M. McDonough, M. H. Murphy and J. L. Mair. *User adoption of the Worktivity mobile app to help reduce occupational sedentary behaviour in an office environment*. Work in progress. 32nd BCS Human Computer Interaction Conference (HCI2018). ACM 2018. Conference paper. July 2018.

- J. L. Mair, A. Stephenson, M. H. Murphy, S. M. McDonough, C. Nugent and M. Garcia-Constantino. *The effects of reducing occupational sedentary behaviour on employee mood and productivity*. 17th Annual Meeting of the International Society of Behavioural Nutrition and Physical Activity (ISBNPA2018), 2018. Conference paper. June 2018.
- M. Garcia-Constantino, A. Konios and C. Nugent. *Modelling Activities of Daily Living with Petri nets*. Advanced Technologies for Smarter Assisted Living solutions: Towards an open Smart Home infrastructure (SmarterAAL). 16th IEEE International Conference on Pervasive Computing and Communications (PerCom2018), 2018. Conference paper. March 2018.
- I. Cleland, M. P. Donnelly, C. D. Nugent, J. Hallberg, M. Espinilla and M. Garcia-Constantino. *Collection of a Diverse, Realistic and Annotated Dataset for Wearable Activity Recognition*. ARDUOUS - 2nd International Workshop on Annotation of user Data for Ubiquitous Systems. 16th IEEE International Conference on Pervasive Computing and Communications (PerCom2018), 2018. Conference paper. March 2018.
- 2017 -J. L. Mair, A. Stephenson, S. M. McDonough, M. H. Murphy, M. Garcia-Constantino and C. Nugent. *The development and formative evaluation of the ‘Worktivity’ app: a behaviour change theory-based mobile app to reduce occupational sedentary behaviour*. 8th Conference of HEPA Europe (European network for the promotion of health-enhancing physical activity) (HEPA2017). Conference paper. November 2017.
- M. Garcia-Constantino, K. Atkinson, D. Bollegala, K. Chapman, F. Coenen, C. Roberts and K. Robson. *CLIEL: Context-Based Information Extraction from Commercial Law Documents*. 16th International Conference on Artificial Intelligence and Law (ICAIL2017). ACM 2017, pp2047-2053. Conference paper. June 2017.
- 2014 -M. Garcia-Constantino, P. Missier, P. Blythe and A. W. Guo. *Measuring the impact of cognitive distractions on driving performance using time series analysis*. 17th International IEEE Conference on Intelligent Transportation Systems (ITSC2014), pp2047-2053. Conference paper. August 2014.
- 2012 -M. F. Garcia-Constantino, F. Coenen, P. Noble and A. Radford. *Questionnaire Free Text Summarisation Using Hierarchical Classification*. AI-2012: Research and Development in Intelligent Systems XXIX. Incorporating Applications and Innovations in Intelligent Systems XX. Springer 2012, pp35-48. Conference paper. September 2012.
- M. F. Garcia-Constantino, F. Coenen, P. Noble, A. Radford and C. Setzkorn. *A Semi-Automated Approach to Building Text Summarisation Classifiers*. Journal of Theoretical and Applied Computer Science. Vol. 6, No. 4, pp7-23, 2012. Journal paper. August 2012.

- M. F. Garcia-Constantino, F. Coenen, P. Noble, A. Radford and C. Setzkorn. *A Semi-Automated Approach to Building Text Summarisation Classifiers*. 8th International Conference on Machine Learning and Data Mining (MLDM2012). Machine Learning and Data Mining in Pattern Recognition. Lecture Notes in Computer Science 7376, Springer 2012, pp495-509. Conference paper. July 2012.
- 2011 -M. F. Garcia-Constantino, F. Coenen, P. Noble, A. Radford, C. Setzkorn, and A. Tierney. *An Investigation Concerning the Generation of Text Summarisation Classifiers using Secondary Data*. 7th International Conference on Machine Learning and Data Mining (MLDM2011). Machine Learning and Data Mining in Pattern Recognition. Lecture Notes in Computer Science 6871, Springer 2011, pp387-398. Conference paper. August 2011.
- S. Chua, F. Coenen, G. Malcom, and M. F. Garcia-Constantino. *Using Negation and Phrases in Inducing Rules for Text Classification*. AI-2011: Research and Development in Intelligent Systems XXVIII. Incorporating Applications and Innovations in Intelligent Systems XIX. Springer 2011, pp153-166. Conference paper. January 2011.
- 2007 -P. Constantino-Casas, L. Torres-Arreola, C. Medecigo-Micete, A. Nevarez-Sida, F. Garcia-Contreras and M. Garcia-Constantino. *PHP14 Polypharmacy in Elderly Patients at the Mexican Institute of Social Security: Satisfaction and Costs*. Value in Health Journal. Elsevier 2007, Vol. 10, No. 3, ppA26. Journal paper. May 2007.
- 2006 -F. Garcia-Contreras, P. Constantino-Casas, A. Nevarez-Sida, G. Del Angel Garcia, M. Garcia-Constantino and E. Rojas-Martinez. *PGI11 Economic Evaluation of the Pharmacological Therapy of Bleeding Esophageal Varices in Mexico*. Value in Health Journal. Elsevier 2006, Vol. 9, No. 6, ppA244. Journal paper. November 2006.
- P. Constantino-Casas, F. Garcia-Contreras, A. Nevarez-Sida, G. Del Angel Garcia, E. Rojas-Martinez and M. Garcia-Constantino. *PND3 Cost-Effectiveness Analysis of Add-On Therapy in Partial Refractory Epilepsy in Mexico*. Value in Health Journal. Elsevier 2006, Vol. 9, No. 6, ppA374-A375. Journal paper. November 2006.
- F. Garcia-Contreras, A. Nevarez-Sida, P. Constantino-Casas, E. Rojas-Martinez, M. Garcia-Constantino and G. Del Angel Garcia. *PND9 Cost Utility Analysis of Levodopa-Carbidopa vs Levodopa-Carbidopa-Entacapone in Parkinson Disease in Mexico*. Value in Health Journal. Elsevier 2006, Vol. 9, No. 6, ppA376. Journal paper. November 2006.
- G. Del Angel Garcia, F. Garcia-Contreras, P. Constantino-Casas, A. Nevarez-Sida, N. Lopez-Gonzalez, M. Garcia-Constantino and M. Zuñiga. *PIH6 Economic Evaluation of Carbetocine for the Prevention of Uterine Atony in Patients with Risk Factors in Mexico*. Value in Health Journal. Elsevier 2006, Vol. 9, No. 6, ppA254. Journal paper. November 2006.

CONFERENCES

- 2021 -Pervasive Health 2021. 15th EAI International Conference on Pervasive Computing Technologies for Healthcare. Tel Aviv, Israel and online. 6-8 December 2021. Delegate and presenter of *Design of a Rule-Based and ADL Analysis System to Support Care of the Elderly*.
- 2020 -PerCom2020. 18th IEEE International Conference on Pervasive Computing and Communications. Austin, Texas and online. 23-27 March 2020. Delegate and presenter of *Ambient and Wearable Sensor Fusion for Abnormal Behaviour Detection in Activities of Daily Living*.
- 2019 -UIC2019. 19th IEEE International Conference on Ubiquitous Intelligence and Computing. Leicester, England. 19-23 August 2019. Delegate and presenter of *Probabilistic Analysis of Temporal and Sequential Aspects of Activities of Daily Living for Abnormal Behaviour Detection*.
- EMBC2019. 41st Annual International Conference of the IEEE Engineering in Medicine and Biology Society. Berlin, Germany. 23-27 July 2019. Delegate and presenter of *A Thermal Imaging Solution for Early Detection of Pre-ulcerative Diabetic Hotspots*.
- PerCom2019. 17th IEEE International Conference on Pervasive Computing and Communications. Kyoto, Japan. 11-15 March 2019. Delegate and presenter of *Semi-automated Annotation of Audible Home Activities and Probabilistic Analysis of Abnormal Behaviour Detection in Activities of Daily Living*.
- 2018 -HCI2018. 32nd BCS Human Computer Interaction Conference. Belfast, Northern Ireland. 2-6 July 2018. Delegate and presenter of *The Desirability of the Use of Technology to Prevent Social Isolation of Older Adults and User adoption of the Worktivity mobile app to help reduce occupational sedentary behaviour in an office environment*.
- PerCom2018. 16th IEEE International Conference on Pervasive Computing and Communications. Athens, Greece. 19-23 March 2018. Delegate and presenter of *Modelling Activities of Daily Living with Petri nets and Collection of a Diverse, Realistic and Annotated Dataset for Wearable Activity Recognition*.
- Invited presentation of the talk entitled *Research at the Smart Environment Research Group (SERG) as part of the Northern Ireland Connected Centre (NI-CHIC)* at the Computer Science Department of Coventry University. Coventry, England. 2nd of March, 2018. Presenter.
- 2017 -ICAIL2017. 16th International Conference on Artificial Intelligence and Law. London, England. 12-16 June 2017. Delegate and presenter of *CLIEL: Context-Based Information Extraction from Commercial Law Documents*.
- Pervasive Health 2017. 11th EAI International Conference on Pervasive Computing Technologies for Healthcare. Barcelona, Spain. 23-26 May 2017. Delegate.
- 2015 -EARL2015. Effective Applications of the R Language Conference. London, England. 13-15 September 2015. Delegate.

- The Annual Riverview Law Horizon Scanning Seminar 2015. The Royal Society, London, England. 19 June 2015. Delegate.
- 2014 -IEEE-ITSC2014. 17th International IEEE Conference on Intelligent Transportation Systems. Qingdao, China. 8-11 October 2014. Delegate and presenter of *Measuring the impact of cognitive distractions on driving performance using time series analysis*.
- EARL2014. Effective Applications of the R Language Conference. London, England. 15-17 September 2014. Delegate.
- 2013 -DE2013: Open Digital. Digital Economy. MediaCityUK, Salford, England. 4-6 November 2013. Delegate.
- Data Analysis for Cyber Security Workshop at the University of Bristol. 25-26 March 2013. Delegate.
- 2012 -32nd SGAI International Conference on Artificial Intelligence (AI2012). Cambridge, England. 11-13 December 2012. Delegate and presenter of *Questionnaire Free Text Summarisation Using Hierarchical Classification*.
- 8th International Conference on Machine Learning and Data Mining (MLDM2012). Berlin, Germany. 16-20 July 2012. Delegate and presenter of *A Semi-Automated Approach to Building Text Summarisation Classifiers*.
- 2011 -31st SGAI International Conference on Artificial Intelligence (AI2011). Cambridge, England. 13-15 December 2011. Delegate and presenter of *Using Negation and Phrases in Inducing Rules for Text Classification*.
- Invited presentation of the talk entitled *Data Mining and its application in the extraction of knowledge from questionnaires* at the Faculty of Engineering of the National Autonomous University of Mexico (UNAM), Mexico City. 13th of September, 2011. Presenter.
- 7th International Conference on Machine Learning and Data Mining (MLDM2011). New York, USA. September 2011. Delegate and presenter of *An Investigation Concerning the Generation of Text Summarisation Classifiers using Secondary Data*.
- IX Symposium of Mexican Students and Studies in the UK at the University of Essex. 8-9 July 2011. Delegate.
- 2009 -29th SGAI (Specialist Group on Artificial Intelligence) International Conference on Innovative Techniques and Applications of Artificial Intelligence at Peterhouse College, University of Cambridge, UK. Delegate and part of local organisers group.
- Forum for AI Research Students (FAIRS) 09: The BCS SGAI (Specialist Group on Artificial Intelligence) Forum for Artificial Intelligence Research Students at the University of Cambridge, UK. Delegate.

2006 -ISPOR (International Society for Pharmacoeconomics and Outcomes Society) 11th Annual International Meeting at Marriott Philadelphia, Philadelphia, USA. May 2006. Delegate.

COMPUTER SCIENCE COURSES

- 2016 -GATE (General Architecture for Text Engineering) training course at the University of Sheffield, UK
- 2015 -SAS Content Categorization Studio training course at Riverview Law, UK
- 2010 -Data Mining Summer School at Maastricht University, The Netherlands
- 2009 -SAS programming language at Corporación Power Builders, Mexico
- 2008 -Use of the data base management system POSTGRESQL at the National Autonomous University of Mexico (UNAM)
 - Introduction to designing databases at the National Autonomous University of Mexico (UNAM)
 - Excel spreadsheet at the National Autonomous University of Mexico (UNAM)
 - Ajax with Java at Total Applications on Line
- 2007 -J2EE at Emerk2 Desarrollos
 - Advanced Java at Emerk2 Desarrollos
- 2006 -Workshop of preventive and corrective maintenance for PCs and laptops at the National Autonomous University of Mexico (UNAM)
- 2003 -Administration and security on Internet Information Service (IIS) at the National Autonomous University of Mexico (UNAM)
 - Security on Windows at the National Autonomous University of Mexico (UNAM)
 - Advanced administration of Windows at the National Autonomous University of Mexico (UNAM)
 - Basic programming with Visual Basic at the National Autonomous University of Mexico (UNAM)
 - Introduction to edition and digitalisation of image formats at the National Autonomous University of Mexico (UNAM)
- 2002 -Introduction to programming techniques at the National Autonomous University of Mexico (UNAM)
 - Linux Operating System at the National Autonomous University of Mexico (UNAM)
 - Introduction to Telecommunications at the National Autonomous University of Mexico (UNAM)

ACADEMIC COURSES

- 2011 -Career Management Skills at the University of Liverpool, UK
- Visual Presentations in Humanities and Social Sciences Workshop at the University of Liverpool, UK
- 2010 -Small Group Teaching Workshop at the University of Liverpool, UK
- Scientific Writing Workshop at the University of Liverpool, UK
- Graduate Teaching Assistant Workshop: Demonstrator Training at the University of Liverpool, UK
- 2009 -Thesis Writing Workshops for International Research Students at the University of Liverpool, UK

LANGUAGE COURSES

- 2016 -Mandarin Chinese Stage 2 at the University of Liverpool, UK
- 2015 -Mandarin Chinese Stage 1 at the University of Liverpool, UK
- 2015 -Italian Stage 1 at the University of Liverpool, UK
- 2014 -Elementary Chinese 1 at the Confucius Institute at Newcastle University, UK
- 2012 -Mandarin Chinese Stage 1 at the University of Liverpool, UK
- 2011 -A further introduction to Mandarin at the Liverpool Confucius Institute, UK
- 2010 -Introduction to Mandarin: Beginners at the Liverpool Confucius Institute, UK
- 2009 -English Classes for International Students and Staff Members at the University of Liverpool, UK
- 2008 -Chinese level 2 at the Asociación Cultural para la Investigación sobre Asia (ACIA), Mexico
- Chinese level 1 at the Asociación Cultural para la Investigación sobre Asia (ACIA), Mexico
- 2002 -Advanced English Communication Skills at the University of York, UK
- Advanced Language Development at the University of York, UK
- English Foundation Course at the University of York, UK
- English Language Course at the English Language Centre of York, UK
- 2001 -Fifth to seventh level of English courses at the Cultural University Centre (CUC), Mexico
- 2000 -First to fourth level of English courses at the Cultural University Centre (CUC), Mexico

AWARDS, SCHOLARSHIPS, GRANTS AND CERTIFICATIONS

- JUN 2022 Fellow (FHEA) (Advance Higher Education). Advance HE. Credential ID PR242861.
- JUN 2021 Associate Fellow (AFHEA) (Advance Higher Education). Advance HE. Credential ID P04472226.
- AUG 2018 - MAR 2019 Global Challenges Research Fund (GCRF) Building Capacity and Networking grant. Project entitled: "Low-cost monitoring to assist people with dementia and their caregivers using smart microphones". This project was a collaboration between Ulster University and CICESE (Centro de Investigación y de Educación Superior de Ensenada) from Mexico. One of the main objectives of the project was to build a strong collaboration relationship between the Smart Environments Research Group (SERG) at Ulster University and researchers from CICESE.
- OCT 2016 PRINCE2 Practitioner certificate in Project Management. BCS, The Chartered Institute for IT, License 298991.
- OCT 2016 PRINCE2 Foundation certificate in Project Management. BCS, The Chartered Institute for IT, License 298984.
- OCT 2016 CMI Level 5 Award in Management and Leadership (QCF). Chartered Management Institute, License P04472226.
- JUN 2016 UK Driving Licence. Driver and Vehicle Licensing Agency (DVLA).
- APR - NOV 2014 ACTION 2014: Changing Age. Participated and won the first place of the ACTION 2014 programme at Newcastle University, aimed at "Addressing Societal Challenges through Enterprise"
- OCT 2009 - SEP 2013 National Council for Science and Technology (CONACYT) scholarship from the Mexican government

MEMBERSHIP OF PROFESSIONAL BODIES

British Computer Society (BCS), The Chartered Institute for IT - Associate Member

LANGUAGES

SPANISH: Mothertongue
ENGLISH: Fluent
CHINESE: Basic knowledge
BULGARIAN: Basic knowledge
ITALIAN: Basic knowledge

INTERESTS

Data Analysis
Internet of Things (IoT)
Connected Health
Pervasive Computing
Legal Technology
Artificial Intelligence
Human-Computer Interaction