



## Professor John Gerard Breslin

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## SUMMARY

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Award-Winning and Highly-Cited Professor in Engineering and Informatics at the University of Galway; Principal Investigator at Insight; Programme Director of TechInnovate and AgInnovate; Serial Entrepreneur, Startup Co-Founder and Board Member; Bestselling Co-Author of the “Old Ireland in Colour” Book Series

## PROFESSIONAL EXPERIENCE

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*Personal Professor (2019 – Present)*

*Senior Lecturer (2014 – 2019)*

*Lecturer Above the Bar (2008 – 2014)*

College of Engineering and Informatics, University of Galway (NUI Galway)

2008 – Present

*Postgraduate Researcher and Adjunct Lecturer*

Digital Enterprise Research Institute, University of Galway (NUI Galway)

2004 – 2008

*Junior Lecturer (Fixed Term)*

Department of Electronic Engineering, University of Galway (NUI Galway)

2000 – 2004

*Research Officer*

Power Electronics Research Centre, University of Galway (UCG, NUI Galway)

1997, 1998, 1999

## EDUCATION

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*Diploma in Arts, French, First Class Honours*

University of Galway (NUI Galway), Ireland

2021

*Executive Program, Entrepreneurship Development*

Massachusetts Institute of Technology, Cambridge, MA, USA

2017

*Postgraduate Certificate, Teaching and Learning in Higher Education*

University of Galway (NUI Galway), Ireland

2013

*Doctor of Philosophy, Engineering*

University of Galway (NUI Galway), Ireland

2002

*Bachelor of Engineering, Electronics, First Class Honours*

University of Galway (UCG), Ireland

1994

## RESEARCH SUMMARY

## Research Interests

- Data Science; Artificial Intelligence; Social Semantics; Social Media; Semantic Web
  - Agricultural Technology; Smart Manufacturing; Innovation and Entrepreneurship
  - Electrical and Electronic Engineering; Power and Energy; Sensors and Internet of Things

## Research Activity

Total refereed papers:

300+

Total books / book chapters:

9 / 19

Total PhDs / Masters graduated:

4.5 / 6

Total University of Galway funding as budget holder: €10,117,286

Total University of Galway funding as PI / Co-PI: €47,884,469

Current size of team: 14 (8.5 postgraduates; 5 postdocs; 1.5 lecturers; 0.5 admin)

Awards and honours: Best papers at IDCS, IoT, DL4KGS, SEMANTiCS, ICEGOV, ESWC, IEEE PELS

Journals reviewed for: Conference on World Bank  
20

Conference / workshop chairs: 5 / 20  
Guest speakers: 10 / 20

Conference / workshop programme committees: 40 / 30  
Other sub-committees: G-PI, the G40, wills, Inheritance, Probate and Gentry, Pl. 2

Other relevant indicators: Co-PI on the €49 million Insight Research Centre Phase 2 grant Co-PI on the €25 million Confirm Research Centre grant

Co-PI on the €25 million ComHrm Research Centre grant  
Co-PI on the €44 million Insight Research Centre grant

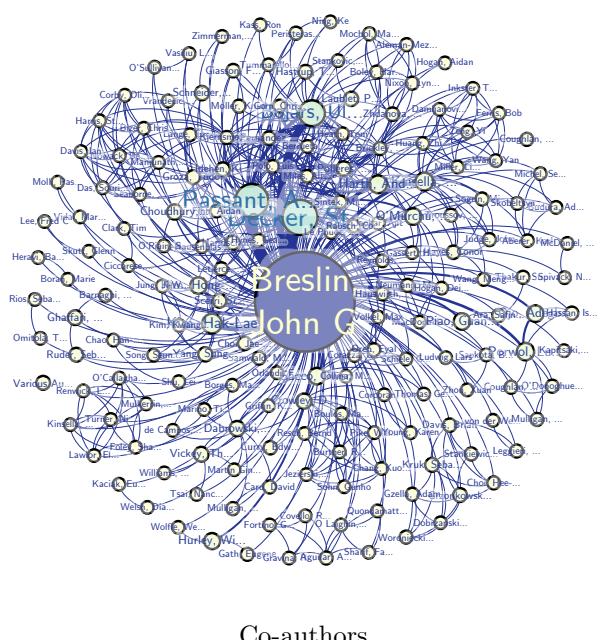
Co-PI on the €44 million Insight Research Centre grant Co-PI on the €15 million DEBIL Léon II CSF grant

## PUBLICATIONS

According to Google Scholar Citations, my h-index is **50** and I have over **10,000** citations. My ORCID is 0000-0001-5790-050X.

My top cited publications (with over 300 citations) are: "Crowdsourcing, Citizen Sensing and Sensor Web Technologies for Public and Environmental Health Surveillance and Crisis Management" (cited by 532); "Optimizing the AC Resistance of Multilayer Transformer Windings with Arbitrary Current Waveforms" (cited by 427); "Towards Semantically Interlinked Online Communities" (cited by 354); "The Social Semantic Web" (cited by 350); "The Future of Social Networks on the Internet: The Need for Semantics" (cited by 349); and "Optimized Transformer Design: Inclusive of High Frequency Effects" (cited by 313).

I have collaborated with about **200** other authors.



(see graph on right), including academic, government and industrial co-authors in organisations such as Cisco, Harvard Medical School, IBM, the US Government's Department of Health and Human Services.

My publications have been cited in patents granted to Cisco, Google, IBM, Offerpop and SAP, and patent applications by HP and Siemens, amongst others.

“Old Ireland in Colour” co-authored with Dr. Sarah-Anne Buckley is a bestselling book that brings Irish historical black and white photographs to life using a combination of artificial intelligence and human colourisation, and sold 50,000 copies in Ireland during 2020 (over €1,000,000 in sales). The sequel “Old Ireland in Colour 2” was also an Irish bestseller in 2021. Combined, both books have sold over 125,000 copies.

“The Social Semantic Web” is a recommended course book in modules at Anna University Chennai, Boğaziçi University, Institute of Technology Tallaght, National Institute of Technology Patna, Technical University of Munich, University of Bamberg, University of Vigo, Utrecht Graduate School of Humanities. It has been downloaded over 10,000 times. Two independent reviews are given below:

“The book focuses mainly on the social Web and possibilities of its integration with the semantic Web. ... For Web developers, researchers, and graduate students, this book would be an ideal source for becoming acquainted with the evolving field of social applications on the Web. It may well fit into a seminar in information systems or related graduate study programs” (Mária Bieliková, ACM Computing Reviews, September 2010)

“This book provides an easy-to-understand insight into Semantic Web and Social Web technologies and highlights research challenges when applying these technologies. ... each chapter provides a literature survey which provides an introduction state-of-the-art research from the domain. ... can be of interest for those, who consider using any of these Social Web applications in their research as well as those just want to get a solid foundation on the topic. ... IT professionals, researchers, academics and graduate students can all benefit from reading this book.” (Frank Hopfgartner, Informer, January 2012)

My Erdős number is 4: I was a coauthor with Eugene G. Gath on DOI: 10.1109/63.838110. Eugene G. Gath was a coauthor with Thomas J. Laffey on MR1335554 (96f:11139). Thomas J. Laffey was a coauthor with LeRoy B. Beasley on MR1058113 (91f:15008). LeRoy B. Beasley was a coauthor with Paul Erdős on MR0902513 (88j:20006).

## Peer Reviewed Publications

### Books

- [1] John G Breslin and Sarah-Anne Buckley. *Old Ireland in Colour 3*. Merrion Press, Oct. 2023. ISBN: 9781785374715.
- [2] John G Breslin and Sarah-Anne Buckley. *Old Ireland in Colour 2*. Irish Bestseller. Merrion Press, Sept. 2021. ISBN: 9781785374111.
- [3] John G Breslin and Sarah-Anne Buckley. *Old Ireland in Colour*. Irish Bestseller. Merrion Press, Oct. 2020. ISBN: 9781785373701.
- [4] Pascal Molli, John G Breslin, and Maria-Esther Vidal, eds. *Semantic Web Collaborative Spaces*. Vol. 9507. LNCS. Springer, Apr. 2016.
- [5] Fabien Gandon, Christophe Guéret, Serena Villata, John G Breslin, Catherine Faron-Zucker, and Antoine Zimmermann, eds. *The Semantic Web: ESWC 2015 Satellite Events*. Springer, Oct. 2015. ISBN: 9783319256382.

- [6] Tope Omitola, Sebastián A Ríos, and John G Breslin. *Social Semantic Web Mining*. Morgan and Claypool, Jan. 2015. ISBN: 9781627053983.
- [7] John G Breslin, Nicole B Ellison, James G Shanahan, and Zeynep Tufekci, eds. *Proceedings of the Sixth International Conference on Weblogs and Social Media*. AAAI Press, June 2012. ISBN: 9781577355564.
- [8] John G Breslin, Thomas N Burg, Hong-Gee Kim, Tom Raftery, and Jan-Hinrik Schmidt, eds. *Recent Trends and Developments in Social Software*. Springer, Nov. 2010. ISBN: 9783642165801.
- [9] John G Breslin, Alexandre Passant, and Stefan Decker. *The Social Semantic Web*. Springer, Oct. 2009. ISBN: 9783642011719.

### **Book Chapters**

- [10] Kosala Y Bandara, Subhasis Thakur, and John G Breslin. “Industry Use Cases on Blockchain Technology Applications in IoT and the Financial Sector”. In: *End-to-End Tracing and Congestion in a Blockchain: A Supply Chain Use Case in Hyperledger Fabric*. IGI Global, May 2021, pp. 68–91. ISBN: 9781799866503. DOI: 10.4018/978-1-7998-6650-3.ch004.
- [11] Subhasis Thakur and John G Breslin. “Wireless Blockchain: Principles, Technologies and Applications”. In: *Decentralized Content Vetting in Social Network with Blockchain*. Wiley, Nov. 2021, pp. 269–296. ISBN: 9781119790808. DOI: 10.1002/9781119790839.ch12.
- [12] Francesco Guerra, Yannis Velegrakis, Jorge Cardoso, and John G Breslin. “The KEYSTONE IC1302 COST Action”. In: *Semantic Keyword-Based Search on Structured Data Sources*. Vol. 10456. LNCS. Springer, Feb. 2018, pp. 187–195. DOI: 10.1007/978-3-319-74497-1\_19.
- [13] Pascal Molli, John G Breslin, and Maria-Esther Vidal. “Challenges for Semantically Driven Collaborative Spaces”. In: *Semantic Web Collaborative Spaces*. Vol. 9507. LNCS. Springer, Apr. 2016, pp. 3–9.
- [14] David N Crowley, Edward Curry, and John G Breslin. “Leveraging Social Media and IoT to Bootstrap Smart Environments”. In: *Big Data and Internet of Things: A Roadmap for Smart Environments*. Springer, Mar. 2014, pp. 379–399.
- [15] Theodore A Vickey and John G Breslin. “Social Networks for Quantified Self”. In: *The Encyclopedia of Social Network Analysis and Mining*. Springer, Oct. 2014, pp. 1901–1904.
- [16] John G Breslin, Alexandre Passant, and Denny Vrandecic. “Social Semantic Web”. In: *The Handbook of Semantic Web Technologies*. Springer, June 2011. Chap. 12, pp. 467–506. ISBN: 9783540929123.
- [17] Alexandre Passant, Sheila Kinsella, Uldis Bojārs, John G Breslin, and Stefan Decker. “Understanding Online Communities by Using Semantic Web Technologies”. In: *The Handbook of Research on Methods and Techniques for Studying Virtual Communities: Paradigms and Phenomena*. IGI Global, Feb. 2011, pp. 429–456. ISBN: 9781609600402.
- [18] Uldis Bojārs, John G Breslin, and Stefan Decker. “Porting Social Media Contributions with SIOC”. In: *Recent Trends and Developments in Social Software*. Springer, Nov. 2010, pp. 116–122. ISBN: 9783642165801.
- [19] Alexandre Passant, Philippe Laublet, John G Breslin, and Stefan Decker. “Enhancing Enterprise 2.0 Ecosystems Using Semantic Web and Linked-Data Technologies: The SemSLATES Approach”. In: *Linking Enterprise Data*. Springer, Oct. 2010, pp. 79–102. ISBN: 9781441976642.
- [20] Hak-Lae Kim, John G Breslin, and Hong-Gee Kim. “Representing and Sharing Tagging Data Using Semantic Web”. In: *The Handbook of Research on Social Interaction Technologies and Collaboration Software: Concepts and Trends*. IGI Global, July 2009. Chap. 46, pp. 519–527. ISBN: 9781605663685.
- [21] Sheila Kinsella, Alexandre Passant, John G Breslin, Stefan Decker, and Ajit Jaokar. “The Future of Social Websites: Sharing Data and Trusted Applications with Semantics”. In: *Advances in Computers*. Vol. 76. Elsevier, June 2009, pp. 121–175.
- [22] John G Breslin. “Social Semantic Information Spaces”. In: *Semantic Digital Libraries*. Springer, Oct. 2008, pp. 55–70. ISBN: 9783540854333.

- [23] Hee-Chul Choi, Sebastian Ryszard Kruk, Sławomir Grzonkowski, Katarzyna Stankiewicz, Brian Davis, and John G Breslin. “Trust Models for Community Aware Identity Management”. In: *Trust Management in Virtual Environment*. Icfai Books, June 2008. Chap. 7, pp. 95–122. ISBN: 8131412541.
- [24] Hak-Lae Kim and John G Breslin. “Towards OpenTagging Platform Using Semantic Web Technologies”. In: *Web 2.0: The Business Model*. Springer, Nov. 2008, pp. 189–200.
- [25] Sheila Kinsella, Andreas Harth, Alexander Trousov, Mikhail Sogrin, John Judge, Conor Hayes, and John G Breslin. “Navigating and Annotating Semantically-Enabled Networks of People and Associated Objects”. In: *Why Context Matters: Applications of Social Network Analysis*. VS Verlag, Sept. 2008, pp. 79–96. ISBN: 9783531163284.
- [26] Ina O’Murchu, John G Breslin, and Stefan Decker. “Online Social and Business Networking Communities”. In: *Viral Marketing: Concepts and Cases*. Icfai Books, June 2007. Chap. 6, pp. 53–80. ISBN: 8131407667.
- [27] Ina O’Murchu, Anna V Zhdanova, and John G Breslin. “Semantic Community Portals”. In: *The Encyclopaedia of Portal Technology and Applications*. IGI Global, Apr. 2007, pp. 875–880.
- [28] Uldis Bojārs, John G Breslin, and Alexandre Passant. “SIOC Browser - Towards a Richer Blog Browsing Experience”. In: *BlogTalks Reloaded: Social Software - Research and Cases*. Vienna, Austria: BoD, Oct. 2006, pp. 141–166. ISBN: 3833496142.

### Journal Papers

- [29] Anupa De Silva, Subhasis Thakur, and John G Breslin. “Card Payment Protocol for Cryptocurrencies with Payment Channel Network”. In: *Distributed Ledger Technologies* (2024). ISSN: 27696480.
- [30] Priyanka Verma, Nitesh Bharot, John G Breslin, Donna O’Shea, Ankit Vidyarthi, and Deepak Gupta. “Zero-Day Guardian: A Dual Model enabled Federated Learning Framework for Handling Zero-day Attacks in 5G Enabled IIoT”. In: *IEEE Transactions on Consumer Electronics* (2024). ISSN: 00983063.
- [31] Priyanka Verma, Nitesh Bharot, John G Breslin, Mukta Sharma, Nisha Chaurasia, and Ankit Vidyarthi. “Uncovering Collateral Damages and Advanced Defense Strategies in Cloud Environments against DDoS Attacks: A Comprehensive Review”. In: *Transactions on Emerging Telecommunications Technologies* (Jan. 2024). ISSN: 21613915. DOI: 10.1002/ett.4934.
- [32] Abdul Wahid, John G Breslin, and Muhammad I Ali. “TCRSCANet: Harnessing Temporal Convolutions and Recurrent Skip Component for Enhanced RUL Estimation in Mechanical Systems”. In: *Human-Centric Intelligent Systems* (2024). ISSN: 26671336.
- [33] Satheesh Abimannan, El-Sayed M El-Alfy, Shahid Hussain, Yue-Shan Chang, Saurabh Shukla, Dhivyadharshini Satheesh, and John G Breslin. “Towards Federated Learning and Multi-Access Edge Computing for Air Quality Monitoring: Literature Review and Assessment”. In: *Sustainability* 15.18 (Sept. 2023). ISSN: 20711050. DOI: 10.3390/su151813951.
- [34] Shahid Hussain, Reyazur Irshad, Fabiano Pallonetto, Qasim Jan, Saurabh Shukla, Subhasis Thakur, John G Breslin, Mousa Mazarband, Yun-Su Kim, Muhammad Ahmad Rathore, and Hesham Elsayed. “Enhancing the Efficiency of Electric Vehicles Charging Stations based on Novel Fuzzy Integer Linear Programming”. In: *IEEE Transactions on Intelligent Transportation Systems* (May 2023). ISSN: 15580016. DOI: 10.1109/TITS.2023.3274608.
- [35] Reyazur R Irshad, Shahid Hussain, Ihtisham Hussain, Ibrar Ahmad, Adil Yousif, Ibrahim M Alwayle, Ahmed A Alattab, Khaled M Alalayah, John G Breslin, Mohammed M Badr, and Joel JPC Rodrigues. “An Intelligent Buffalo-Based Secure Edge-Enabled Computing Platform for Heterogeneous IoT Network in Smart Cities”. In: *IEEE Access* (June 2023). ISSN: 21693536. DOI: 10.1109/ACCESS.2023.3288815.
- [36] Jefkine Kafunah, Muhammad I Ali, and John G Breslin. “Uncertainty-Aware Ensemble Combination Method for Quality Monitoring Fault Diagnosis in Safety-Related Products”. In: *IEEE Transactions on Industrial Informatics* (June 2023). ISSN: 19410050. DOI: 10.1109/TII.2023.3280566.

- [37] Jefkine Kafunah, Priyanka Verma, Muhammad I Ali, and John G Breslin. “Out-of-Distribution Data Generation for Fault Detection and Diagnosis in Industrial Systems”. In: *IEEE Access* (Nov. 2023). ISSN: 21693536. DOI: 10.1109/ACCESS.2023.3337658.
- [38] Muhammad Jaleed Khan, John G Breslin, and Edward Curry. “NeuSyRE: Neuro-Symbolic Visual Understanding and Reasoning Framework Based on Scene Graph Enrichment”. In: *Semantic Web Journal* (Dec. 2023). ISSN: 15700844. DOI: 10.3233/SW-233510.
- [39] Sweta Malik, Subhasis Thakur, Maeve Duffy, and John G Breslin. “Comparative Double Auction Approach for Peer-to-Peer Energy Trading on Multiple Microgrids”. In: *Smart Grids and Sustainable Energy* (Nov. 2023). ISSN: 27318087. DOI: 10.1007/s40866-023-00178-x.
- [40] Saurabh Shukla, Shahid Hussain, Reyazur Rashid Irshad, Ahmed Abdu Alattab, Subhasis Thakur, John G Breslin, M Fadzil Hassan, Satheesh Abimannan, Shahid Husain, and Syed Muslim Jameel. “Network Analysis in a Peer-to-Peer Energy Trading Model using Blockchain and Machine Learning”. In: *Computer Standards and Interfaces* 88 (Oct. 2023). ISSN: 18727018. DOI: 10.1016/j.csi.2023.103799.
- [41] Rory Ward and John G Breslin. “Overcoming Challenges with Automatic Video Colourisation”. In: *Engineers Ireland Journal* (Mar. 2023).
- [42] Muhammad Yahya, Aabid Ali, Qaiser Mehmood, Lan Yang, John G Breslin, and Muhammad I Ali. “A Benchmark Dataset with Knowledge Graph Generation for Industry 4.0 Production Lines”. In: *Semantic Web Journal* (May 2023). ISSN: 15700844. DOI: 10.5281/zenodo.7779522.
- [43] Muhammad Yahya, Baifan Zhou, John G Breslin, Muhammad I Ali, and Evgeny Kharlamov. “Semantic Modeling, Development and Evaluation for the Resistance Spot Welding Industry”. In: *IEEE Access* (Apr. 2023). ISSN: 21693536. DOI: 10.1109/ACCESS.2023.3267000.
- [44] Shahid Hussain, Yun-Su Kim, Subhasis Thakur, and John G Breslin. “Optimization of Waiting Time for Electric Vehicles Using a Fuzzy Inference System”. In: *Transactions on Intelligent Transportation Systems* (Jan. 2022), pp. 1–12. DOI: 10.1109/TITS.2022.3140461.
- [45] Shahid Hussain, Subhasis Thakur, Saurabh Shukla, John G Breslin, Qasim Jan, Faisal Khan, Ibrar Ahmad, Mousa Marzband, and Michael G Madden. “A Heuristic Charging Cost Optimization Algorithm for Residential Charging of Electric Vehicles”. In: *Energies* (Feb. 2022). DOI: 10.3390/en15041304.
- [46] Shahid Hussain, Subhasis Thakur, Saurabh Shukla, John G Breslin, Qasim Jan, Faisal Khan, and Yun-Su Kim. “A Two-Layer Decentralized Charging Approach for Residential Electric Vehicles Based on Fuzzy Data Fusion”. In: *Journal of King Saud University - Computer and Information Sciences* (May 2022). DOI: 10.1016/j.jksuci.2022.04.019.
- [47] Muhammad Jaleed Khan, John G Breslin, and Edward Curry. “Common Sense Knowledge Infusion for Visual Understanding and Reasoning: Approaches, Challenges, and Applications”. In: *Internet Computing* (May 2022), pp. 21–27. DOI: 10.1109/MIC.2022.3176500.
- [48] Abderahman Rejeb, John G Keogh, Wayne Martindale, Damion Dooley, Edward Smart, Steven Simske, Samuel Fosso Wamba, John G Breslin, Kosala Yapa Bandara, Subhasis Thakur, Kelly Liu, Bridgette Crowley, Sowmya Desaraju, Angela Ospina, and Horia Bradau. “Charting Past, Present, and Future Research in the Semantic Web and Interoperability”. In: *Future Internet* (May 2022). DOI: 10.3390/fi14060161.
- [49] Bharath Sudharsan, John G Breslin, Mehreen Tahir, Muhammad I Ali, Omer Rana, Schahram Dustdar, and Rajiv Ranjan. “OTA-TinyML: Over the Air Deployment of TinyML Models and Execution on IoT Devices”. In: *Internet Computing* (June 2022), pp. 69–78. DOI: 10.1109/MIC.2021.3133552.
- [50] Priyanka Verma, John G Breslin, and Donna O’Shea. “FLDID: Federated Learning enabled Deep Intrusion Detection in Smart Manufacturing Industries”. In: *Sensors* (Nov. 2022). DOI: 10.3390/s22228974.
- [51] Abdul Wahid, John G Breslin, and Muhammad I Ali. “Prediction of Machine Failure in Industry 4.0: A Hybrid CNN-LSTM Framework”. In: *Applied Sciences* (Apr. 2022). DOI: 10.3390/app12094221.

- [52] Muhammad I Ali, Pankesh Patel, John G Breslin, Rami Harik, and Amit Sheth. “Cognitive Digital Twins for Smart Manufacturing”. In: *Intelligent Systems* 36.2 (May 2021), pp. 96–100. DOI: 10.1109/MIS.2021.3062437.
- [53] Faris A Almalki, Saeed H Alsamhi, Radhya Sahal, Jahan Hassan, Ammar Hawbani, Navin S Rajput, Abdu Saif, Jeff Morgan, and John G Breslin. “Green IoT for Eco-Friendly and Sustainable Smart Cities: Future Directions and Opportunities”. In: *Mobile Networks and Applications* (Aug. 2021). DOI: 10.1007/s11036-021-01790-w.
- [54] Kosala Y Bandara, Subhasis Thakur, and John G Breslin. “Flocking-Based Decentralised Double Auction for P2P Energy Trading within Neighbourhoods”. In: *International Journal of Electrical Power and Energy Systems* (Feb. 2021). DOI: 10.1016/j.ijepes.2021.106766.
- [55] Jefkine Kafunah, Muhammad I Ali, and John G Breslin. “Handling Imbalanced Datasets for Robust Deep Neural Network-Based Fault Detection in Manufacturing Systems”. In: *Applied Sciences* (Oct. 2021). DOI: 10.3390/app11219783.
- [56] Sweta Malik, Maeve Duffy, Subhasis Thakur, Barry Hayes, and John G Breslin. “A Priority-Based Approach for Peer-to-Peer Energy Trading Using Cooperative Game Theory in Local Energy Community”. In: *International Journal of Electrical Power and Energy Systems* (Dec. 2021). DOI: 10.1016/j.ijepes.2021.107865.
- [57] Jeff Morgan, Mark Halton, Yuansong Qiao, and John G Breslin. “Industry 4.0 Smart Reconfigurable Manufacturing Machines”. In: *Journal of Manufacturing Systems* (Apr. 2021). DOI: 10.1016/j.jmsy.2021.03.001.
- [58] Radhya Sahal, Saeed H Alsamhi, John G Breslin, and Muhammad I Ali. “Industry 4.0 Towards Forestry 4.0: Fire Detection Use Case”. In: *Sensors* (Jan. 2021). DOI: 10.3390/s21030694.
- [59] Radhya Sahal, Saeed H Alsamhi, John G Breslin, Kenneth N Brown, and Muhammad I Ali. “Digital Twins Collaboration for Automatic Erratic Operational Data Detection in Industry 4.0”. In: *Applied Sciences* (Apr. 2021). DOI: 10.3390/app11073186.
- [60] Saurabh Shukla, Subhasis Thakur, Shahid Hussain, John G Breslin, and Syed Muslim Jameel. “Identification and Authentication in Healthcare Internet-of-Things Using Integrated Fog Computing Based Blockchain Model”. In: *Internet of Things* (June 2021). DOI: 10.1016/j.iot.2021.100422.
- [61] Bharath Sudharsan, John G Breslin, and Muhammad I Ali. “ML-MCU: A Framework to Train ML Classifiers on MCU-based IoT Edge Devices”. In: *Internet of Things* (July 2021). DOI: 10.1109/JIOT.2021.3098166.
- [62] Bharath Sudharsan, Pankesh Patel, John G Breslin, Muhammad I Ali, Karan Mitra, Schahram Dustdar, Omer Rana, Prem Prakash Jayaraman, and Rajiv Ranjan. “Toward Distributed, Global, Deep Learning Using IoT Devices”. In: *Internet Computing* (May 2021). DOI: 10.1109/MIC.2021.3053711.
- [63] Muhammad Yahya, John G Breslin, and Muhammad I Ali. “Semantic Web and Knowledge Graphs for Industry 4.0”. In: *Applied Sciences* (May 2021). DOI: 10.3390/app11115110.
- [64] Subhasis Thakur and John G Breslin. “Scalable and Secure Product Serialization for Multi-Party Perishable Good Supply Chains Using Blockchain”. In: *Internet of Things* (June 2020). DOI: 10.1016/j.iot.2020.100253.
- [65] Barry P Hayes, Subhasis Thakur, and John G Breslin. “Co-Simulation of Electricity Distribution Networks and Blockchain Energy Trading Platforms”. In: *International Journal of Electrical Power and Energy Systems* 115 (July 2019). DOI: 10.1016/j.ijepes.2019.105419.
- [66] Hoan Nguyen Mau Quoc, Martin Serrano, Han Mau Nguyen, John G Breslin, and Danh Le Phuoc. “EAGLE—A Scalable Query Processing Engine for Linked Sensor Data”. In: *Sensors* (Oct. 2019). DOI: 10.3390/s19204362.
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- [73] Theodore A Vickey and John G Breslin. “Online Influence and Sentiment of Fitness Tweets: Analysis of Two Million Fitness Tweets”. In: *JMIR Public Health Surveillance* (Oct. 2017). ISSN: 15700844.
- [74] Lukasz Porwol, Adegboyega Ojo, and John G Breslin. “An Ontology for Next Generation e-Participation Initiatives”. In: *Government Information Quarterly* (Feb. 2016). ISSN: 0740624X.
- [75] Lukasz Porwol, Adegboyega Ojo, and John G Breslin. “Social Software Infrastructure for e-Participation”. In: *Government Information Quarterly* (Feb. 2016). ISSN: 0740624X.
- [76] Tiago Marino, Maria Luiza Machado de Campos, Marco R S Borges, John G Breslin, and Maciej Dabrowski. “Architecture for Gathering and Integrating Collaborative Information for Decision Support in Emergency Situations”. In: *The International Journal of Information and Communication Technology* (Sept. 2015).
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  - P. Molli, J.G. Breslin, M.E. Vidal, Proceedings of the 3rd Workshop on Semantic Web Collaborative Spaces (SWCS 2014) at the 13th International Semantic Web Conference (ISWC 2014), CEUR vol. 1275, ISSN 1613-0073, Trentino, Italy, October 2014. <http://ceur-ws.org/Vol-1275>
  - E. Demidova, S. Dietze, J. Szymanski, J.G. Breslin, Proceedings of the 1st International Workshop on Dataset PROFILING and fEderated Search for Linked Data (PROFILES 2014) at the 11th Extended Semantic Web Conference (ESWC 2014), CEUR vol. 1151, ISSN 1613-0073, May 2014. <http://ceur-ws.org/Vol-1151>
  - J.G. Breslin, U. Bojārs, A. Passant, S. Fernández (eds.), Proceedings of the 4th International Workshop on Social Data on the Web (SDOW 2011) at the 10th International Semantic Web Conference (ISWC 2011), CEUR vol. 830, ISSN 1613-0073, Bonn, Germany, October 2011. <http://ceur-ws.org/Vol-830>
  - J.G. Breslin, U. Bojārs, A. Passant, S. Fernández (eds.), Proceedings of the 3rd International Workshop on Social Data on the Web (SDOW 2010) at the 9th International Semantic Web Conference (ISWC 2010), CEUR vol. 664, ISSN 1613-0073, Washington, DC, USA, Shanghai, China, November 2010. <http://ceur-ws.org/Vol-664>
  - J.G. Breslin, U. Bojārs, A. Passant, S. Fernández (eds.), Proceedings of the 2nd International Workshop on Social Data on the Web (SDOW 2009) at the 8th International Semantic Web Conference (ISWC 2009), CEUR vol. 520, ISSN 1613-0073, Washington, DC, USA, October 2009. <http://ceur-ws.org/Vol-520>
  - J.G. Breslin, U. Bojārs, A. Passant, S. Fernández (eds.), Proceedings of the 1st International Workshop on Social Data on the Web (SDOW 2008) at the 7th International Semantic Web Conference (ISWC 2008), CEUR vol. 405, ISSN 1613-0073, Karlsruhe, Germany, October 2008. <http://ceur-ws.org/Vol-405>
  - M. Mochol, A.V. Zhdanova, L.J.B. Nixon, J.G. Breslin, A. Polleres (eds.), Proceedings of The 3rd International ExpertFinder Workshop on Personal Identification and Collaborations: Knowledge Mediation and Extraction (PICKME 2008) at the 7th International Semantic Web Conference (ISWC 2008), CEUR vol. 403, ISSN 1613-0073, Karlsruhe, Germany, October 2008. <http://ceur-ws.org/Vol-403>
  - A.V. Zhdanova, L.J.B. Nixon, M. Mochol, J.G. Breslin (eds.), Proceedings of The 2nd International ExpertFinder Workshop on Finding Experts on the Web with Semantics (FEWS 2007) at the 6th International Semantic Web Conference and the 2nd Asian Semantic Web Conference (ISWC 2007 + ASWC 2007), CEUR vol. 290, ISSN 1613-0073, Busan, Korea, November 2007. <http://ceur-ws.org/Vol-290>

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## FUNDING

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## Funding as Budget Holder

Period	Funding agency	€ Own / University of Galway total	Role	Title of research project / programme
2023-2026	EC	€108,572 / €434,289	PI	Decarbonisation and Digitalisation of Atlantic Ports (ENEPORTS) (with Umair Ul Hassan and Pau Farràs) / Interreg Atlantic Area
2023-2026	EC	€225,781	PI	Advanced Digital Technologies for the Blue Economy (ADT4Blue) / Interreg Atlantic Area
2023-2023	GÉANT	€30,000	Co-PI	Secure Data Management for Multi-Cloud Environments (SecMC) (with Nitesh Bharot) / Innovation Programme
2023-2026	EC, EI	€1,143,029	Co-PI	Data2Sustain / European Digital Innovation Hubs
2022-2027	SFI	€399,201	Co-PI	Sustainable, Green and Energy Efficient Artificial Intelligence for Autonomous Systems (SustAIn) (with Steven Davy at TU Dublin) / Frontiers for the Future
2022-2025	HEA	€861,000	PI	MSc in AgInnovation / Springboard+
2021-2022	HEA	€220,580	PI	MSc in AgInnovation (with Brendan Allen) / Springboard+
2020-2023	EC	€217,750	Co-PI	OntoCommons / Horizon 2020 DT-NMBP-39-2020
2020-2021	SFI	€87,475	Co-PI	Distributed Ledger Technology Identifying and Solving Public Service Problems Using the Blockchain (with Kosala Yapa Bandara and Subhasis Thakur) / SFI Public Service Fellowship Programme
2020-2021	HEA	€263,220	PI	MSc in AgInnovation (with Brendan Allen) / Springboard+
2020-2021	SFI	€220,000	Co-PI	The First Digital Biomarker in Female Reproductive Health, Uncloaking Endometriosis and Filling the Diagnostic Gap (Cailín) (with Siobhán Kelleher) / SFI Future Innovator Prize
2019-2025	SFI	€350,151 / €12,000,000	Co-PI	Insight Centre for Data Analytics / Research Centre Phase 2
2019-2023	EC	€194,239	PI	Smart Manufacturing Advanced Research Training (SMART 4.0) / Marie Skłodowska-Curie Action COFUND
2019-2022	DBEI	€384,089	Co-PI	Cooperative Energy Trading System (CENTS) (with Subhasis Thakur) / Disruptive Technologies Innovation Fund
2019-2021	EC	€41,480	Co-PI	Circular HRM (with Paul Flynn) / EACEA Erasmus+ Strategic Partnerships
2019-2020	HEA	€245,970	PI	MSc in AgInnovation / Springboard+
2018-2024	SFI	€377,249	FI	VistaMilk Centre for Precision Pasture-Based Dairying / Research Centre
2018-2021	EC	€219,227	Coordinator	Startup Skills for Researchers and Innovators in Entrepreneurship Development (STARTED) / EACEA Erasmus+ Programme Knowledge Alliances

2018-2019	EI	€12,430	PI	Dynamic Cybersecurity Infrastructure Simulation (with Subhasis Thakur) / Coordinator Proposal Preparation Support
2018-2019	HEA	€185,707	Co-PI	MSc in AgInnovation (with Paul Flynn) / Springboard+
2018-2019	IERC	€45,707	Co-PI	P2P Energy Trading Using Blockchain (En-erPort) (with Subhasis Thakur and Barry Hayes) / T2 Collaborative Research Programme (top-ranked proposal)
2018-2018	SFI, IBM	€42,397	Co-PI	Blockchain and FinTech (with Subhasis Thakur) / Targeted Project
2017-2023	SFI	€1,093,767	Co-PI	Confirm Centre for Smart Manufacturing / Research Centre
2017-2018	HEA	€171,086	PI	Postgraduate Diploma in TechInnovation / Springboard+
2015-2019	IRC, AYLIEN	€96,000	PI	PhD on Neural Transfer Learning / Employment Based Postgraduate Programme
2015-2017	IRC, AYLIEN	€48,000	PI	MApplSc on Streaming Sentiment Analysis / Employment Based Postgraduate Programme
2015-2015	EI	€15,000	PI	Privacy Preference Framework / Commercial Case Feasibility Grant
2015-2015	EI	€11,452	PI	Digital Age Narrative Trajectories / Coordinator Proposal Preparation Support
2014-2019	SFI	€785,806 / €12,450,025	Co-PI	Insight Centre for Data Analytics / Research Centre
2014-2018	SFI, SAP	€175,000	Co-PI	PhD on Modelling in OSNs for Recommendation / Targeted Project
2014-2017	EC	€30,000 / €90,000	Co-PI	A Collaboration Ecosystem Enabling EU Creative SMEs to Exchange Multimedia Content and Create Multiplot, Interactive Apps for Children, Curated According to Reader Ability and Educational Value (Q-Tales) (with Michael Hogan and Tony Hall) / Horizon 2020 ICT-18-2014
2014-2015	EI	€12,000	PI	Biology-Like Monitoring of Innovation Strategies / Coordinator Proposal Preparation Support
2014-2015	EI	€12,920	PI	Citizen Activism to Improve Law Enforcement and Policing by Communities / Coordinator Proposal Preparation Support
2014-2015	EI	€12,000	PI	Protecting Privacy in the Social Web / Coordinator Proposal Preparation Support
2014-2014	SFI	€97,049	PI	Social Media Repository of Ireland (with Royal Irish Academy) / Technology Innovation Development Award
2013-2017	EC	€0	Co-Proposer	KEYSTONE Semantic Keyword-Based Search on Structured Data Sources / COST Action
2013-2014	SFI	€200,000	FI	Insight Centre for Data Analytics / Research Centre
2013-2014	EC	€291,925	PI	Eurapp Study on the EU App Economy (with Gigaom Research) / Startup Europe Study
2013-2013	IRC	€9,995	PI	researchers.ie / N/A

2012-2012	SFI	€23,700	PI	AAAI ICWSM-12 Support Grant / Conferences and Workshops Programme
2010-2010	SFI	€6,501	PI	Visiting Researcher at the National Institute for Informatics in Tokyo / Short Term Travel Fellowship Grant
2010-2014	IRC, ACE	€72,009	PI	PhD on Physical Activity and Social Networks / Enterprise Partnership Scheme
2009-2011	IRC	€48,006	PI	MEngSc on Social Networks for Irish Researchers / Government of Ireland Postgraduate Scholarship
2008-2013	SFI	€822,000 / €14,889,398	Co-PI	DERI Lón II / Centre for Science, Engineering and Technology
2008-2009	EI, TouristR	€197,184	PI	TripPlanr / Innovation Partnership
2008-2008	EI	€4,132	PI	TouristR Background Research / Innovation Voucher
2003-2003	NUI Galway	€6,500	PI	Web-Based Magnetic Component Design / Millennium Fund

## Other Funding

Period	Funding agency	€ Total	Role	Title of research project / programme
2018	EI	€2,487,000	Non-Profit	Galway City Innovation District: Building Two / Regional Enterprise Development Fund
2017	EI	€20,000	Non-Profit	Galway City Innovation District: Building Two / Regional Enterprise Development Fund Feasibility Grant
2017	EI	€670,000	Non-Profit	Galway City Innovation District: NDRC at PorterShed / Regional Accelerator Development Scheme
2015	EI	€178,417	Non-Profit	Galway City Innovation District: The PorterShed / Community Enterprise Initiative

## Funding Reviewer

- European Innovation Council Accelerator Jury Member (Evaluator) [2023]
- Horizon 2020 Soft Landing Project for the European Commission (Monitor) [2019]
- Research Foundation - Flanders (FWO) [2018]
- College of Expert Reviewers for the European Science Foundation (ESF) [2017 – Present]
- Horizon 2020 Call ICT-11-2017 for the European Commission (Evaluator) [2017]
- French National Institute for Research in Computer Science and Control (INRIA) Project Team [2013]
- National Fund for Scientific and Technological Development (FONDECYT) of the Chilean Government Commission for Scientific and Technological Development (CONICYT) [2012]
- Expeditions in Computing for the US National Science Foundation (NSF) [2008]
- Innovation Partnership Programme for Enterprise Ireland [2007]

## COLLABORATIONS

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## Industry Collaborations

- “Eurapp” with Gigaom Research
  - First EC-funded study to size the EU app economy in terms of developer / support jobs and app sales / contract work revenues
  - Study was carried out with the research arm of major online technology publisher Gigaom, and was part of the EC’s Startup Europe initiative
  - Crowdsourcing was used to come up with solutions to the main bottlenecks encountered in the EU app economy
  - Final report was launched by European Commission VP Neelie Kroes in February 2014
- “SIOC” with Opera, OpenLink Software, Asemantics, etc.
  - Social data framework is one of the most widely used Semantic Web vocabularies on the Web
  - W3C Member Submission was made in collaboration with the above companies and a collection of academic partners
  - SIOC has been deployed on over 65,000 websites with 35 million data instances, including energy.gov, london.gov.uk, www.iq.harvard.edu, software.intel.com, and others that use the Drupal 7 CMS
  - SIOC is used in more than 100 software systems including Yahoo! SearchMonkey, Boeing inSite, Vodafone ZYB, OpenLink Virtuoso and Talis Engage
  - The words ‘SIOC’ and ‘semantic’ occur together in over **3,060** publications
- “S2E” with Cisco
  - Semantic mapping was created for core XMPP stanzas, physical presences (e.g. sensor devices, geolocation), social network profiles and desktop activities in RDF using existing standard vocabularies including SIOC, FOAF, SSN (and SPITFIRE), PIMO
  - Served as inspiration for the social semantic framework used in Cisco Quad, developed by Cisco R&D in Galway
- “Social Semantic Spreading Activation” with IBM
  - Small collaboration with IBM’s LanguageWare group that led to published work in the book “Why Context Matters”
  - Galaxy tool from IBM used spreading activation on social semantic data to cluster people and topics

## Academic Collaborations

- “SWAN/SIOC” with Massachusetts General Hospital / Harvard Medical School



With EC Vice President Neelie Kroes at the launch of the Eurapp Final Report

- Project to align the SWAN (Semantic Web Applications in Neuromedicine) and SIOC (Semantically Interlinked Online Communities) ontologies
  - Aimed to provide a complete model to represent scientific discourse in online communities at different levels of granularity (discourse elements and content items)
- “KEYSTONE” with Universitá degli Studi di Modena e Reggio Emilia and others
  - Co-authored this COST Action proposal on semantic keyword search on structured data, which grew to include 28 countries
  - Coordinated dissemination of this project’s results, working with Chair Francesco Guerra and the rest of the Executive Scientific Board
- “Social Media Archive of Ireland” with the Digital Repository of Ireland at the Royal Irish Academy
  - Project exploring the feasibility of creating an archive of social media-related activity that surrounds important national debates and events
  - Aims to facilitate the selection and preservation of social media from an Irish context, as well as looking at the legal and ethical issues surrounding this preservation
  - Should be useful to those looking at how current or historical events in a particular region are reflected in the combination of social and mainstream media
- “Semantic Tagging” with Seoul National University
  - Created a semantic model for tag clouds and a tag sharing / exchange service based on this model
- Various collaborators on interdisciplinary research papers, projects and proposals at NUI Galway
  - College of Arts, Social Sciences, & Celtic Studies:  
Dr. Tony Hall, Dr. Michael Hogan, Dr. Niall Ó Dochartaigh, Dr. Conchúr Ó Giollagáin, Dr. Denis O’Hora, Dr. Henrike Rau, Dr. Kiran Sarma
  - College of Business, Public Policy, & Law:  
Dr. Thomas Acton, Mr. Michael Campion, Dr. Johanna Clancy, Dr. Kieran Conboy, Dr. Christine Domegan, Dr. Natasha Evers, Dr. Eoin Whelan
  - College of Engineering & Informatics:  
Dr. Peter Corcoran, Dr. Kathryn Cormican, Dr. Edward Curry, Prof. Stefan Decker, Dr. Conor Hayes, Dr. Myra Lydon, Dr. Adegboyega Ojo, Prof. David O’Sullivan, Prof. Dietrich Rebholz-Schuhmann, Karen Young
  - College of Medicine, Nursing, & Health Sciences:  
Dr. Dympna Casey, Prof. Kathleen Murphy, Dr. Fabio Quondamatteo
  - College of Science:  
Prof. Afshin Samali, Prof. Charles Spillane

## Government Collaborations

- “HADA+PPO/PPM” with US Government Health and Human Services
  - Leveraged NUI Galway’s privacy preference management for linked data architectures, specifically for the area of health and hospital-related linked data
  - Deployed on a system that published Linked Government Data and required an access control framework to filter who could access specific data
  - Worked with the late George Thomas and his team in Washington DC on this project
  - This work resulted in a data.gov article<sup>1</sup> and subsequent press release
- “researchers.ie” with the Irish Research Council
  - Index of Irish-based researcher profiles, initially of students funded by IRCSET (later the Irish Research Council)

<sup>1</sup><http://www.data.gov/communities/node/116/blogs/20731>

- Demonstrated to Professor Paddy Cunningham, Ireland’s Chief Scientific Adviser to the Taoiseach, and other stakeholders at the end of the project
- “Galway Traffic Forum” with Galway City Council, etc.
  - Initiated efforts to create a social platform for this group to address transportation bottlenecks in Galway City
  - Part of the Galway Transport Forum and Better Transport for Galway Initiative
  - Worked with key stakeholders from the Galway City Council, Galway Chamber of Commerce, NUI Galway Civil Engineering, and Engineers Ireland

## POSTGRADUATE/STAFF SUPERVISION

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### **Current Supervisions**

- Rory Ward, PhD, Data Science Institute, University of Galway, 2021 – Present. Funder: CRT-AI (Science Foundation Ireland)

### **Current Co-Supervisions as Primary Supervisor**

- Qing Liu, PhD, Data Science Institute, University of Galway, 2023 – Present. Co-Supervisor: Priyanka Verma. Funder: China Scholarship Council.
- Hassan Khan, PhD, Data Science Institute, University of Galway, 2023 – Present. Co-Supervisor: Subhasis Thakur. Funder: Sustain (Science Foundation Ireland)

### **Current Co-Supervisions as Secondary Supervisor**

- Rishabh Chandaliya, PhD, Data Science Institute, University of Galway, 2021 – Present. Co-Supervisor: Martin Serrano. Funder: i3-Market (Horizon 2020)
- Anupa Shyamlal, PhD, Data Science Institute, University of Galway, 2020 – Present. Co-Supervisor: Subhasis Thakur. Funder: VistaMilk (Science Foundation Ireland)
- Jaleed Khan, PhD, Data Science Institute, University of Galway, 2019 – Present. Co-Supervisor: Edward Curry. Funder: CRT-AI (Science Foundation Ireland)
- Abdul Wahid, PhD, Data Science Institute, University of Galway, 2019 – Present. Co-Supervisor: Ali Intizar. Funder: Confirm (Science Foundation Ireland)
- Atiya Usmani, PhD, Data Science Institute, University of Galway, 2018 – Present. Co-Supervisor: Edward Curry. Funder: Insight (Science Foundation Ireland)
- Yasar Khan, PhD, Data Science Institute, University of Galway, 2016 – Present. Co-Supervisor: Mathieu d’Aquin. Funder: Insight (Science Foundation Ireland)

### **Previous Supervisions**

- Dr. Sebastian Ruder, “Neural Transfer Learning for Natural Language Processing”, PhD, Data Science Institute, NUI Galway, 2015 – 2019. Examiners: Ivan Titov, Paul Buitelaar. Funder: Irish Research Council and AYLIEN Ltd.
- Dr. Guangyuan Piao, “Semantics-Aware User Modeling and Recommender Systems in Online Social Networks”, PhD, Data Science Institute, NUI Galway, 2014 – 2018. Examiners: Harith Alani, Dietrich Rebholz-Schuhmann. Funder: Insight (Science Foundation Ireland) and SAP

- Marie Boran, “Understanding Social Media Adoption in the Irish Scientific Community and its Relevance to Interpreting Altmetrics”, MApplSc, Insight Research Institute, NUI Galway, 2012 – 2015. Examiners: Tope Omitola, Conor Hayes. Funder: DERI/Insight (Science Foundation Ireland)
- Julie Letierce, “Understanding If and How the Web Improves Scientific Communication Between its Stakeholders”, MEngSc, DERI, NUI Galway, 2009 – 2012. Examiners: Padraig Murphy, Stefan Decker. Funder: DERI (Science Foundation Ireland)
- Dr. Smitashree Choudhury, “A Social Context-Enabled Framework for the Semantic Enrichment and Integration of Web Videos”, PhD, DERI, NUI Galway, 2006 – 2011. Examiners: Lora Aroyo, Stefan Decker. Funder: DERI (Science Foundation Ireland)
- Dr. Sheila Kinsella, “Augmenting Social Media Items with Metadata using Related Web Content”, PhD, DERI, NUI Galway, 2006 – 2011. Examiners: Fabien Gandon, Stefan Decker. Funder: DERI (Science Foundation Ireland)
- Gerard Cahill, “A Web Portal Powered by Social Network Data for Irish Researchers”, MEngSc, DERI, NUI Galway, 2009 – 2011. Examiners: Robin Teigland, Stefan Decker. Funder: Irish Research Council for Science, Engineering and Technology
- Dr. Uldis Bojars, “The SIOC Methodology for Lightweight Ontology Development”, PhD, DERI, NUI Galway, 2004 – 2009. Examiners: Chris Bizer, Stefan Decker. Funder: DERI (Science Foundation Ireland)
- Dr. Hak-Lae Kim, “Leveraging a Semantic Framework for Augmenting Social Tagging Practices in Heterogeneous Content Sharing Platforms”, PhD, DERI, NUI Galway, 2006 – 2009. Examiners: Tom Gruber, Philippe Laublet, Stefan Decker. Funder: DERI (Science Foundation Ireland)

## Previous Co-Supervisions as Primary Supervisor

- Dr. Jefkine Kafunah, “Uncertainty-Aware Fault Diagnosis for Safety-Related Industrial Systems”, PhD, Data Science Institute, University of Galway, 2019 – Present. Co-Supervisor: Ali Intizar. Funder: Confirm and Insight (Science Foundation Ireland)
- Duc-Duy Nguyen, “On-Demand Decentralised Internet of Things Collectability Marketplace Using Crowdsensing”, MEngSc, Data Science Institute, University of Galway, 2017 – 2022. Examiners: Damon Berry, Edward Curry. Co-Supervisors: Mathieu d’Aquin, Alessandro Adamou, Ali Intizar. Funder: Confirm (Science Foundation Ireland)
- Dr. Bharath Sudharsan, PhD, Data Science Institute, NUI Galway, 2019 – 2022. Co-Supervisor: Ali Intizar. Examiners: Thomas Runkler, Edward Curry. Funder: Confirm (Science Foundation Ireland)
- Dr. Safina Showkat Ara, “Exploration Algorithms for Discoverable and Undiscoverable Decentralised Online Social Networks”, PhD, Data Science Institute, NUI Galway, 2015 – 2021. Co-Supervisor: Subhasis Thakur. Examiners: Antonio Moreno, Peter Corcoran. Funder: Insight (Science Foundation Ireland)
- Dr. Hoan Nguyen Mau Quoc, “A Scalable Spatio-temporal Query Processing for Linked Sensor Data”, PhD, Data Science Institute, NUI Galway, 2012 – 2019. Examiners: Axel Polleres, Juan Miguel Gómez Berbís, Mathieu d’Aquin. Co-Supervisor: Danh Le Phuoc. Funder: OpenIOT (FP7)
- Huy Le Van, “Near Real-Time Data Warehousing of Linked Streams”, MApplSc, Data Science Institute, NUI Galway, 2013 – 2018. Examiners: Antonio Jara, Mathieu d’Aquin. Co-Supervisors: Martin Serrano, Danh Le Phuoc. Funder: Fed4FIRE (FP7) and OpenIOT (FP7)
- Dr. Ted Vickey, “Just Tweet It: The Collection, Processing, Classification and Analysis of 2 Million Fitness Tweets”, PhD, Data Science Institute and Electrical & Electronic Engineering, NUI Galway, 2010 – 2018. Examiners: Alan Smeaton, Gearóid Ó Laighin. Co-Supervisors: Cedric Bryant, Kathleen Martin Ginis, Stephen Kinsella. Funder: Irish Research Council for Science, Engineering and Technology and American Council on Exercise
- Dr. Lukasz Porwol, “The Duality of e-Participation - A Model and Technical Infrastructure to Study and Harness Social Media-Based Participation”, PhD, Insight Research Institute, NUI Galway, 2010 – 2016. Co-Supervisor: Adegboyega Ojo. Examiners: Soon Ae Chun, Murray Scott. Funder: DERI/Insight (Science Foundation Ireland) and Cloud4SOA

- Dr. Myriam Leggieri, “Distributional Semantics for Sensors Linking and Selection”, PhD, Insight Research Institute, NUI Galway, 2010 – 2015. Examiners: Steffen Staab, Michael Schukat. Co-Supervisors: Brian Davis, Alexandre Passant. Funder: SPITFIRE
- Dr. Owen Sacco, “Trust-Aware Privacy Preferences for Information Sharing on the Web of Data”, PhD, DERI, NUI Galway, 2010 – 2014. Examiners: Mathieu d’Aquin, Stefan Decker. Co-Supervisors: Alexandre Passant, Alessandra Mileo. Funder: Irish Research Council for Science, Engineering and Technology and Cisco Systems
- Dr. Antonio Aguilar, “Design and Evaluation of an Automated Algorithm for Cardiac Risk Stratification”, PhD, Electrical & Electronic Engineering, NUI Galway, 2009 – 2013. Examiners: Ronney Panerai, Gerard Hurley. Co-Supervisors: Gearóid Ó Laighin, Fabio Quondamatteo. Funder: Ambient Assisted Living Joint Programme
- Dr. Fabrizio Orlandi, “Profiling User Interests on the Social Semantic Web”, PhD, DERI, NUI Galway, 2010 – 2014. Examiners: Fabien Gandon, Stefan Decker. Co-Supervisor: Alexandre Passant. Funder: Irish Research Council for Science, Engineering and Technology and Cisco Systems
- Dr. Jodi Schneider, “Enabling Reuse of Arguments and Opinions in Open Collaboration Systems”, PhD, DERI, NUI Galway, 2009 – 2013. Examiners: Simon Buckingham Shum, Siegfried Handschuh. Co-Supervisors: Alexandre Passant, Stefan Decker. Funder: DERI (Science Foundation Ireland)
- Ina O’Murchu, “Connecting Local Community Groups Using Semantic Technologies”, MSc, DERI, NUI Galway, 2004 – 2006. Examiners: Sung-Kook Han, Stefan Decker. Co-Supervisor: Stefan Decker. Funder: DERI (Science Foundation Ireland)

## Previous Co-Supervisions as Secondary Supervisor

- Dr. Muhammad Yahya, “Building Semantic Models and Knowledge Graphs for Intelligent Smart Manufacturing Applications”, PhD, Data Science Institute, University of Galway, 2019 – 2023. Co-Supervisor: Ali Intizar. Funder: Confirm (Science Foundation Ireland)
- Dr. Sweta Malik, “Peer-to-Peer Energy Trading in Microgrids: A Game-Theoretic Approach”, PhD, Data Science Institute, University of Galway, 2019 – Present. Co-Supervisors: Subhasis Thakur, Maeve Duffy. Funder: CENTS (DTIF) and Insight (Science Foundation Ireland)
- Chan Le Van, “Optimisation of a Linked Stream Processing Engine”, MAppSc, Insight Research Institute, NUI Galway, 2013 – 2016. Examiners: Emanuele Della Valle, Michael Schukat. Co-Supervisors: Alessandra Mileo, Danh Le Phuoc, Muhammad Intizar Ali. Funder: GAMBAS (FP7)
- Dr. Shane Lowe, “The Design, Development and Validation of a Wearable Behaviour Monitor for the Autonomous Assessment of the Functional Health of Older Adults”, PhD, Electrical & Electronic Engineering, NUI Galway, 2009 – 2013. Examiners: Rose Anne Kenny, Maeve Duffy. Co-Supervisor: Gearóid Ó Laighin. Funder: Irish Research Council for Science, Engineering and Technology and Georgia Tech Ireland
- Alan Dunne, “Development of a Touchscreen System for Upper Extremity Rehabilitation of Children with Cerebral Palsy”, MEngSc, Electrical & Electronic Engineering, NUI Galway, 2009 – 2011. Examiners: Eugene Coyle, Gearóid Ó Laighin. Co-Supervisor: Gearóid Ó Laighin. Funder: Irish Research Council for Science, Engineering and Technology and Georgia Tech Ireland

## Previous Supervisions of Minor Projects

- Richard Hunt, “Using QR Codes to Improve the Touristic Experience”, MA in Digital Media, Huston School of Film and Digital Media, NUI Galway, 2013 – 2014
- Mary Murphy, “A Study of Social Inclusion and the Use of Technology in Encouraging Interaction”, MA in Digital Media, Huston School of Film and Digital Media, NUI Galway, 2010 – 2011
- Martin Fitzgerald, “Creating a Community-Based IPTV Channel”, MA in Digital Media, Huston School of Film and Digital Media, NUI Galway, 2006 – 2007

## **Current Research Fellows**

- Dr. Subhasis Thakur
- Dr. Priyanka Verma

## **Current Postdoctoral Researchers/Research Associates**

- Dr. Nitesh Bharot
- Dr. Mirco Soderi
- Dr. Lan Yang

## **Current Research Assistants**

- None

## **Previous Postdoctoral Researchers/Research Associates**

- Dr. Kosala Yapa Bandara
- Dr. Ronan Cummins
- Dr. Maciej Dabrowski
- Dr. Aidan Finn
- Dr. Conor Hayes
- Dr. Bahareh Heravi
- Dr. Shahid Hussain
- Dr. Jeff Morgan
- Gabriel Mullarkey
- Dr. Alexandre Passant
- Dr. Saurabh Shukla

## **Previous Research Assistants**

- Arnaud Daron
- Vignesh Kamath
- Kamalesh Kanakaraj
- Ajay Nair
- Fionntán O'Donnell

## **Visiting Students and Professors**

- Filippo Berto, University of Milan, Italy
- Nakul Mehta, Dr B R Ambedkar National Institute of Technology, Jalandhar, India
- Federica Rollo, University of Modena and Reggio Emilia, Italy
- Julien Paganelle, L'École d'Ingénieurs du Centre des Études Supérieures Industrielles de Pau, France
- Charles-Adrien Beneteau, L'École d'Ingénieurs du Centre des Études Supérieures Industrielles de Pau, France
- Giustina Ciccarello, Roma Tre University, Italy
- Alessia Antelmi, University of Salerno, Italy
- Karen Young, NUI Galway, Ireland
- Matthieu Rebouh, L'École d'Ingénieurs du Centre des Études Supérieures Industrielles de Pau, France
- Nitish Mittal, Netaji Subhas Institute of Technology, India

- Ayushi Gupta, Indira Gandhi Delhi Technical University for Women, India
- Vanya Sharma, Indira Gandhi Delhi Technical University for Women, India
- Karthik Aluru, Université Paris-Sud XI Orsay, France
- Roberto Covello, University of Calabria, Italy
- Tara Donoghue, University of Limerick, Ireland
- Sergio Fernández, Fundación CTIC, Spain
- Tuukka Hastrup, University of Jyväskylä, Finland
- Gandhi Hernandez, Universidad Carlos III de Madrid, Spain
- Christian Hunsen, University of Göttingen, Germany
- Jung Jin-Uk, Seoul National University, Korea
- Prof. Jason Jung, Yeungnam University, Korea
- Tiago Marino, Universidade Federal do Rio de Janeiro, Brazil
- Mateusz Marmołowski, Technical University of Gdańsk, Poland
- Yuki Matsuoka, National Institute of Informatics, Japan
- Thomas Schandl, Vienna University of Economics and Business, Austria
- Daniel Villanueva, Universidad Carlos III de Madrid, Spain
- Sungkwon Yang, Seoul National University, Korea

### **Current TechInnovate Lecturers**

- Prof. W. Bernard Carlson

### **Previous TechInnovate Lecturers**

- Brendan Allen
- Dr. Edelle Doherty
- Dr. Paul Flynn
- Dr. Samir Vinchurkar

### **Previous TechInnovate Fellows**

- Capt. Neil Curran
- Ronan Boyle
- Leon Butler
- Dr. Paul Flynn
- Niamh Lynch
- Jane O'Connor
- Gregory Payne
- Kelsey Roberts
- Ciara Shields

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### **POSTGRADUATE COMMITTEES**

## **External Examiner**

- Thaís Quintas de Arcanjo, “Sending Cryptocurrency Over Mobile Applications”, MSc, Dublin City University, 2019. Supervisor: Ray Walshe. Examiner: John G. Breslin.
- Dr. Saud Aljaloud, “An Investigation into the Performance of Regular Expressions within the SPARQL Query Language”, PhD, University of Southampton, 2018. Supervisor: Nicholas Gibbins. Examiner: John G. Breslin.
- Dr. Zide Meng, “Temporal and Semantic Analysis of Richly Typed Social Networks from User-Generated Content Sites on the Web”, PhD, Université Nice Sophia Antipolis, 2016. Supervisors: Fabien Gandon, Catherine Faron-Zucker. Examiners: John G. Breslin, Frederique Laforest, Frederic Precioso.
- Dr. Richard Hosking, “Arguing over Copyright: An eScience Tool for Understanding and Reasoning over Copyright in Digital Scholarship”, PhD, University of Auckland, 2016. Supervisor: Mark Gahegan. Examiners: John G. Breslin, David Nichols.
- Dr. Gregoire Burel, “Community and Thread Methods for Identifying Best Answers in Online Question Answering Communities”, PhD, Open University, 2015. Supervisor: Harith Alani. Examiners: John G. Breslin, Stefan Rueger.
- Dr. Carlos Vinent, “Automatic, Unsupervised and Domain-Independent System for Extracting Features and Topics from Documents and Microblogs”, PhD, Universitat Rovira i Virgili, 2015. Supervisor: Antonio Moreno. Examiner: John G. Breslin.
- Dr. Nicolas Marie, “Linked Data-Based Exploratory Search”, PhD, Université Nice Sophia Antipolis, 2014. Supervisors: Myriam Ribiére, Fabien Gandon. Examiners: John G. Breslin, Harald Sack, Guy Melançon.
- Dr. Hannes Ebner, “Supporting Loose Forms of Collaboration: Using Linked Data to Realize an Architecture for Collective Knowledge Construction”, PhD, KTH Royal Institute of Technology, 2014. Supervisors: Marko Turpeinen and Ambjörn Naeve. Examiners: John G. Breslin (Opponent), Teemu Leinonen, Åsa Smedberg, Marcelo Milrad.
- Andreas Textor, “Semi-Automatic Management of Knowledge Bases Using Formal Ontologies”, MSc, Cork Institute of Technology and University of Applied Sciences in Wiesbaden, 2011. Supervisors: Jeanne Stynes, Reinhold Kröger. Examiner: John G. Breslin.

## **Internal Examiner**

- Rajdeep Sarkar, “Exploring Structured and Unstructured Knowledge Sources for Developing Domain-Specific Chatbots”, PhD, 2023. Supervisor: John McCrae. Examiners: Ondřej Dušek, John G. Breslin.
- Meshari Alshammari, “Bidirectional Inverter with Improved Light Load Efficiency for Integration in a Hybrid AC/DC Distribution System in Buildings”, PhD, 2023. Supervisor: Maeve Duffy. Examiners: Esteban Sanchis, John G. Breslin.
- Dr. Bassim Mahbooba, “Enhancing Trust in Detecting Security Threats using Machine Learning Approaches and Its Relevance in Internet of Things Scenarios”, PhD, 2022. Supervisor: Martin Serrano. Examiners: Antonio Jara, John G. Breslin.
- Dr. Maman Ahmad Khan, “Enhancing the Situational Awareness of the Active Distribution Network”, PhD, 2022. Supervisor: Barry Hayes. Examiners: Marco Pau, John G. Breslin.
- Dr. Tarek Zaarour, “Adaptive Knowledge Extraction and Loose Semantic Coupling in Multimedia Publish/Subscribe Overlay Networks”, PhD, 2022. Supervisor: Edward Curry. Examiners: Boris Koldehofe, John G. Breslin.
- Dr. Asma Khatoon, “Design and Development of Smart Contract System for Blockchain Based Applications”, PhD, 2021. Supervisor: Peter Corcoran. Examiners: Anirban Sengupta, John G. Breslin.
- Dr. Heike Vornhagen, “Supporting Sense-Making Experiences of City Dashboards: A Design Solution”, PhD, 2021. Supervisors: Karen Young, Brian Davis, Manel Zarrouk. Examiners: Rob Brennan, John G. Breslin.
- Dr. Qaiser Mahmood, “Efficient Path Query Approaches Over Distributed Linked Data”, PhD, 2021. Supervisor: Mathieu d’Aquin. Examiners: Pascal Molli, Thomas Riechert, John G. Breslin.

- Felipe Arruda Pontes, “Energy- and Speed-Aware Self-Adaptive Scheduler for Deep Learning Models for Multimedia Event Processing on the Cloud-Edge”, MApplSc, 2021. Supervisor: Edward Curry. Examiners: María Pérez-Hernández, John G. Breslin.
- Dr. Mohan Timilsina, “Graph-Based Diffusion Methods for Node Classification and Link Prediction”, PhD, 2020. Supervisor: Mathieu d’Aquin. Examiners: Nicola Perra, John G. Breslin.
- Dr. Lan Yang, “Ontology Learning for Systems Engineering Body of Knowledge”, PhD, 2020. Supervisor: Kathryn Cormican. Examiners: Cecilia Haskins, John G. Breslin.
- Dr. Danielly Ferriera Oliveira DePaula, “Design Thinking Capability Model: A Management Framework to Support Design Thinking Implementation”, PhD, 2019. Supervisor: Kathryn Cormican. Examiners: Juliana Hsuan, John G. Breslin.
- Durre Zehra, “Linked Open Data for Cancer Genomics”, MSc, 2019. Supervisors: Ratnesh Sahay, Mathieu d’Aquin. Examiners: Paris Vogazianos, John G. Breslin.
- Dr. Hugo Hromic, “Detecting, Defining and Interpreting Communities in Fast Moving Social Media Platforms”, PhD, 2019. Supervisor: Conor Hayes. Examiners: Miriam Fernandez, John G. Breslin.
- Dr. Zia Ush Shamszaman, “Enabling Smart Societies Using Social Internet of Things”, PhD, 2019. Supervisor: Ali Intizar. Examiners: Giancarlo Fortino, John G. Breslin.
- Dr. Shane Tuohy, “Hybrid Simulation of Ethernet Based Intra-Vehicle Networks”, PhD, 2017. Supervisors: Liam Kilmartin, Edward Jones, Martin Glavin. Examiners: Nicolas Navet, John G. Breslin.
- Dr. Nur Rakhmawati, “Evaluating and Benchmarking the Performance of Federated SPARQL Endpoints and Their Partitioning using Selected Metrics”, PhD, 2016. Supervisors: Stefan Decker, Dietrich Rebholz-Schuhmann. Examiners: Sören Auer, John G. Breslin.
- Dr. Darren Craven, “Low Power Strategies for Signal Compression in Ambulatory Healthcare”, PhD, 2016. Supervisors: Edward Jones, Martin Glavin, Liam Kilmartin. Examiners: Jonathon Chambers, John G. Breslin.
- Dr. Umair Ul Hassan, “Adaptive Task Assignment in Spatial Crowdsourcing”, PhD, 2016. Supervisor: Edward Curry. Examiners: Seng Loke, John G. Breslin.
- Dr. Shejin Thavalengal, “Contributions to Practical Iris Biometrics on Smartphones”, PhD, 2016. Supervisor: Peter Corcoran. Examiners: Kevin Bowyer, John G. Breslin.
- Dr. Souleiman Hasan, “Loose Coupling in Heterogeneous Event-Based Systems via Approximate Semantic Matching and Dynamic Enrichment”, PhD, 2015. Supervisor: Edward Curry. Examiners: Gordon Blair, John G. Breslin.
- Dr. Muhammad Qureshi, “Application and Analysis of Structured Data to Problems in Information Retrieval”, PhD, 2015. Supervisor: Colm O’Riordan. Examiners: Joemon Jose, John G. Breslin.
- Dr. Jun Zhang, “High Frequency Resonant Converter with Planar Magnetics”, PhD, 2015. Supervisors: Gerard Hurley, Maeve Duffy. Examiners: Jesus Acero, John G. Breslin.
- Dr. Sabrina Kirrane, “Linked Data with Access Control”, PhD, 2014. Supervisors: Alessandra Mileo, Stefan Decker. Examiners: Tim Finin, John G. Breslin.
- Dr. Muhammad Aftab Iqbal, “Large Scale Data Integration of OSS Repositories for Automated Soft and Technical Factors Assessment”, PhD, 2014. Supervisors: Michael Hausenblas, Stefan Decker. Examiners: Jeff Pan, Asunción Gómez Pérez, John G. Breslin.
- Dr. Benjamin Heitmann, “An Open Framework for Multi-Source, Cross-Domain Personalisation with Semantic Interest Graphs”, PhD, 2014. Supervisor: Conor Hayes. Examiners: Tommaso Dinoia, John G. Breslin.
- Sonya Abbas, “Reference Architecture and Implementation of a Linked Geospatial Data Infrastructure”, MSc, 2014. Supervisor: Adegboyega Ojo. Examiners: Matteo Palmonari, John G. Breslin.
- Divanshu Gupta, “Scalable Facet Synthesis for Relational Faceted Navigation System”, MSc, 2013. Supervisors: Stefan Decker, Giovanni Tummarello, Renaud Delbru. Examiners: Fabrizio Silvestri, John G. Breslin.
- Sajin Kumar, “A Framework to Publish Tweets in Linked Data Web”, MSc, 2013. Supervisors: Stefan Decker, Adegboyega Ojo. Examiners: Marijn Janssen, John G. Breslin.
- Mengjiao Wang, “Information Fusion Methods for the Automatic Creation of User Lists in Microblogs”, MSc, 2013. Supervisor: Conor Hayes. Examiners: Matthew Rowe, John G. Breslin.
- Dr. Lei Shu, 2010, “Streaming Data Gathering in Wireless Multimedia Sensor Networks”, PhD, 2010. Supervisor: Manfred Hauswirth. Examiners: Takahiro Hara, John G. Breslin.

- Dr. Andreas Harth, “Exploring Linked Data on Web Scale”, PhD, 2010. Supervisor: Stefan Decker. Examiners: Karl Aberer, John G. Breslin.
- Stephane Corlosquet, “Bootstrapping the Web of Data with Drupal”, MSc, 2009. Supervisor: Axel Polleres. Examiners: Tim Clark, John G. Breslin.

## Viva Chair

- Dr. Faisal Khan, “Contributions to Neural Network Models and Training Datasets for Facial Depth Estimation from a Single Image”, PhD, 2023. Supervisor: Peter Corcoran. Examiners: Anil Kokaram, Michael Schukat.
- Dr. Muhammad Ali Farooq, “Evaluations of Thermal Imaging Technology for Automotive Use Cases”, PhD, 2022. Supervisor: Peter Corcoran. Examiners: Saraju Mohanty, Martin O’Halloran.
- Dr. Mona Isazad Mashinchi, “Dashboards for Supporting Cancer Care in Value-Based Healthcare Context: Information Needs, Design Principles and Acceptance”, PhD, 2021. Supervisors: Karen Young, Adegboyega Ojo, Frank Sullivan. Examiners: Elsa Estevez, Murray Scott.
- Dr. Alokkumar Jha, “Semantic Knowledge Graphs to Understand Tumor Evolution and Predict Disease Survival in Cancer”, PhD, 2019. Supervisors: Mathieu d’Aquin, Ratnesh Sahay. Examiners: Maria Esther Vidal, John Newell.
- Dr. Laleh Kazemzadeh, “Identification of Regional Interaction Patterns in Regulatory Networks”, PhD, 2017. Supervisor: Frank Barry. Examiners: Michael Schröder, Mary Murphy.
- Dr. Mihael Arcan, “Multilingual Enhancement of Domain-Specific Knowledge”, PhD, 2016. Supervisor: Paul Buitelaar. Examiners: Josef van Genabith, Dietrich Rebholz-Schuhmann.
- Dr. Andre Freitas, “Schema-Agnostic Queries for Large-Schema Databases: A Distributional Semantics Approach”, PhD, 2014. Supervisor: Edward Curry. Examiners: Christopher Brewster, Paul Buitelaar.
- Dr. Sanaullah Nazir, “Data Availability Analysis in P2P Networks”, PhD, 2012. Supervisor: Manfred Hauswirth. Examiners: Anwitaman Datta, Siegfried Handschuh.
- Dr. Ratnesh Nandan Sahay, “An Ontological Framework for Interoperability of Health Level Seven (HL7) Applications: The PPEPR Methodology and System”, PhD, 2012. Supervisors: Axel Polleres, Ronan Fox, Manfred Hauswirth. Examiners: Jeff Pan, Alberto Fernández Gil, Stefan Decker.
- Dr. Peyman Nasirifard, “Advances in Understanding, Mining and Using People Tags”, PhD, 2012. Supervisor: Conor Hayes. Examiners: Robert Engels, Stefan Decker.
- Dr. Vinh Tuan Thai, “Visual Exploration of Text Collections”, PhD, 2012. Supervisor: Siegfried Handschuh. Examiners: Enrico Motta, Stefan Decker.

## Confirmation Examination Committees

- Paul Stacey, “Interoperable Knowledge Engineering Techniques for Ultra-Constrained Heterogeneous Geo-Observational Sensor Systems”, Dublin Institute of Technology. Supervisor: Damon Berry. Examiners: John G. Breslin.

## Graduate Research Committees

- College of Arts, Social Sciences, & Celtic Studies
  - School of Education: Annette Cosgrove
  - School of Political Science & Sociology: Mike Hynes
- College of Business, Public Policy, & Law
  - Discipline of Business Information Systems, School of Business & Economics: Colin Callinan
- College of Science & Engineering:

- Discipline of Electrical & Electronic Engineering: Andrei Barcovschi, Kevin Farrell, Seyedrooholah Hosseini, Jaroslaw Jakubowicz, Asma Khatoon, Paul Kiely, Fearghal Kineavy, Tudor Nedelcu, David Newell, Mostafa Rezaeimozafar, Shejin Thavalengal, Tirui Wu, Jun Zhang, Wei Zhao
- Discipline of Information Technology: Stephen Bradshaw
- Discipline of Mechanical Engineering (Industrial Engineering): Fabiola Cortes Chavez, Neda Makrooni, Sagar Shinde
- Data Science Institute: Salma Abdulaziz, Alex Acquier, Erik Aumayr, Andrea Barraza, Milena Caires, Sarah Carter, Lin Clark, Stephane Corlosquet, Tobias Daudert, Feng Gao, Benjamin Heitmann, Aidan Hogan, Maciej Janowski, Yasar Khan, Waqas Khawaja, Sabrina Kirrane, Julie Letierce, Bassim Mahbooba, Mona Mashinchi, Qaiser Mahmood, Duc-Duy Nguyen, Bianca Pereira, Thu-Le Pham, Felipe Arruda Pontes, Narumol Prangnawarat, Nur Aini Rakhmawati, Hazem Safwat, Zia Ush Shamszaman, Annanda Sousa, Atiya Usmani, Piyush Yadav, Tarek Zaarour, Omnia Zayed, Durre Zehra
- Plant & AgriBiosciences Research Centre, School of Natural Sciences: Zewdy Gebremedhin

### INVITED TALKS, TUTORIALS AND PANELS

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Invited talk at Stanford University in 2013

### Invited Talks

I have given invited talks on my research, teaching and community activities at various prestigious locations including Stanford University, University of Chile, US Library of Congress, University of Maryland Baltimore County, Applied Physics Laboratory at Johns Hopkins University, New York Times, Tsinghua University, and Open University.

- “Cognitive Digital Twins for Industry 4.0”, Keynote Talk at the Huawei Global Software Technology Summit, Dublin, 2nd June 2023.
- “Behind Old Ireland in Colour”, Invited Talk for the Public Record Office of Northern Ireland [Online], 31st March 2023.

- “Behind Old Ireland in Colour”, Invited Talk at the University College Cork Computer Science Seminar Series [Online], 10th February 2023.
- “Bringing the Past Back to Life: The Science and Engineering Behind Old Ireland in Colour”, Invited Talk to Engineers Ireland Thomond Region [Online], 19th January 2023. <https://www.youtube.com/watch?v=ZBN3vq55nHc>
- “Behind Old Ireland in Colour”, Invited Talk to the CollabArchive Project, Public Record Office of Northern Ireland [Online], 16th November 2022.
- “The OntoCommons Ecosystem (OCES) and Ontology Communities”, Keynote Talk to the OntoCommons Demo and Use Case Workshop, Stuttgart, Germany [Hybrid], 8th November 2022.
- “Old Ireland in Colour” (with Sarah-Anne Buckley), Invited Talk to Glen Eira Libraries, Melbourne, Australia [Online], 26th May 2022.
- “Teaching Researchers and Innovators How to Create Startups”, Invited Talk to the Trinity College Dublin (TCD) Postgraduate Certificate in Innovation and Entrepreneurship [Online], 12th May 2022.
- “Teaching Researchers and Innovators How to Create Startups”, Keynote Talk at the South East Technological University (SETU) Research Postgraduate Conference 2022 [Online], 6th May 2022.
- “Old Ireland in Colour 2” (with Sarah-Anne Buckley), Manchester and Lancashire Family History Society [Online], 2nd December 2021.
- “Old Ireland in Colour 2” (with Sarah-Anne Buckley), Irish American Heritage Museum [Online], 24th November 2021. <https://www.youtube.com/watch?v=A0svI4BTGNQ>
- “Old Ireland in Colour 2” (with Sarah-Anne Buckley), Museum of Childhood Ireland [Online], 27th October 2021.
- “Old Ireland in Colour 2” (with Sarah-Anne Buckley), Kildare Readers Festival [Online], 16th October 2021.
- “Artificial Intelligence for Image/Video Colourisation and Enhancement”, NUI Galway KPMG Summer School [Online], 14th June 2021.
- “Book Talk: Old Ireland in Colour” (with Sarah-Anne Buckley), Maine Irish Heritage Center [Online], 6th June 2021.
- “Let’s C in JCT: Our History in Colour”, Junior Cycle for Teachers (JCT) Support Service [Online], 28th May 2021.
- “Old Ireland in Colour”, Trasna na Tíre [Online], 7th December 2020. <https://www.trasnanatire.ie/?wix-vod-video-id=i7M8YMCUFUw&wix-vod-comp-id=comp-kb431v45>
- “Smartups”, Invited Talk to Údarás na Gaeltachta and Junior Achievement Ireland’s Company Programme National Finalists, Áras na Gaeilge, NUI Galway, 2nd April 2019.
- “Creativity, Innovation and Entrepreneurship in Higher Education”, Invited Talk at CELT, NUI Galway, 30th January 2019.
- “Who Is Your Customer?”, Invited Talk to Irish SAP.iO Accelerate Participants, The PorterShed, Galway, 23rd November 2018.
- “Building the Galway Startup Ecosystem”, Invited Talk to the SAP.iO Venture Partners Team, Potsdam, Germany, 24th October 2018.
- “Go to Market and COCA”, Invited Talk to SAP.iO Accelerate Teams, Potsdam, Germany, 24th October 2018.
- “Technology Innovation”, Invited Talks to the Enterprise Ireland High Potential Start-Up Team, Mervue, Galway and East Point, Dublin, 12th June 2018 and 18th September 2018.
- “Accelerating Regional Entrepreneurship”, Invited Talk to the Enterprise Subgroup of the Atlantic Economic Corridor Taskforce, Mayo County Council, Claremorris, 30th May 2018.
- “TRICS: Teaching Researchers and Innovators How to Create Startups”, Keynote Talk at the 14th Annual Conference of the International Society for Design and Development in Education (ISDDE 2018), Galway, 29th May 2018. <https://www.slideshare.net/Cloud/trics-teaching-researchers-and-innovators>
- “Collaborative Leadership to Increase the Northern & Western Region’s Innovation and Entrepreneurship Capacity”, Northern & Western Region Masterclass in Collaborative Leadership, The Glasshouse Hotel, Sligo, 25th May 2018. <https://www.slideshare.net/Cloud/collaborative-leadership-to-increase-t>
- “Innovation Districts and Innovation Hubs”, Wexford Town Innovation District, The Gallery at Green Acres, Wexford, 3rd May 2018.

- “Disciplined Entrepreneurship”, Course on Applying Innovation, University of Minho, Portugal, 23rd March 2018.
- “Imeachtaí Nuálaíochta agus Fiontraíochta san Ollscoil agus san Iarthar”, Roinn Fiontraíochta agus Fostaíochta, Údarás na Gaeltachta, Na Forbacha, 14ú Mí na Nollag 2017.
- “Entrepreneurship is in Our DNA”, NWRA/WDC One Region One Vision Annual Conference 2017, 28th October 2017. <https://www.slideshare.net/Cloud/entrepreneurship-is-in-our-dna>
- “What Can You Do for Your Customer?”, Invited Talk to the BonBillo Social Impact Incubator, Impact Hub, Boston, 14th October 2017.
- “Innovation Ecosystems”, Invited Talk to the College of Medicine, Nursing & Health Sciences, NUI Galway, 26th September 2017.
- “Disciplined mHealth Entrepreneurship, Invited Talk at the mHealth Conference 2017, NUI Galway, 15th June 2017. <http://www.slideshare.net/Cloud/disciplined-mhealth-entrepreneurship>
- “Innovation Districts and Innovation Hubs”, Innovation Hubs Briefing to TDs and Senators, Leinster House, Dublin, 1st February 2017. <https://www.slideshare.net/Cloud/innovation-districts-and-innovation-hubs>
- “Innovation and Entrepreneurship: Tips and Tricks”, Invited Talk to IRUPA / Connacht Rugby Players, The PorterShed, Galway, 2nd November 2016. <https://www.slideshare.net/Cloud/innovation-and-entrepreneurship-tips-and-tricks>
- “Growing Galway’s Startup Community”, Invited Talk to the Social Sciences Research Centre Conference 2016, ILAS, NUI Galway, 20th October 2016. <https://www.slideshare.net/Cloud/growing-galways-startup-community>
- “Startup Community: What Galway Can Do Next”, Bank of Ireland Workbench Launch, Bank of Ireland, Mainguard Street, Galway, 12th August 2015. <https://www.slideshare.net/Cloud/startup-community-what-galway-can-do-next>
- “Searching for Startups”, Keynote Talk at the 5th KEYSTONE MC Meeting and Winter WG Meeting, Aix-Marseille Université, Marseille, France, 23rd February 2016. <https://www.slideshare.net/Cloud/searching-for-startups>
- “Adding More Semantics to the Social Web”, Invited Talk to the Semantic Web and Ontology Special Interest Group, National Institute of Informatics, Tokyo, Japan, 10th July 2015. <https://www.slideshare.net/Cloud/adding-more-semantics-to-the-social-web>
- “Communities and Tech: Build Which and What Will Come?”, Invited Talk at Techgate, Junior Chamber International Galway, Galway, Ireland, 3rd December 2014. <https://www.slideshare.net/Cloud/communities-and-tech-build-which-and-what-will-come>
- “Data Analytics and Industry-Academic Partnerships: An Irish Perspective”, Keynote Talk at the Business Intelligence Workshop (BIWO 2014), Santiago, Chile, 14th August 2014. <https://www.slideshare.net/Cloud/data-analytics-and-industryacademic-partnerships-an-irish-perspective-3798>
- “Eurapp”, Invited Talk at Workshop on Tech Entrepreneurs: The Path to Success, Digital Agenda Assembly 2013, NDRC, Dublin, Ireland, 20 June 2013.
- “Innovation Café Talk”, Invited Talk at the TCD-UCD-QUB Joint Graduate Certificate Lunchtime Speaker Series, The Innovation Academy, Dublin, Ireland, 17th April 2013. <https://www.slideshare.net/Cloud/john-breslin-at-the-innovation-academy>
- “Engaging Citizens in Research and Innovation: Opportunities and Challenges Afforded by Social Media”, Invited Talk at the European Intersectoral Summit on Research and Innovation, Trinity College Dublin, Ireland, 26th February 2013. <https://www.slideshare.net/Cloud/engaging-citizens-in-research-and-innovation>
- “dW/dI: How a Small Country Like Ireland Can Make a Big Difference to the World (and a Bit About a ‘Professor Entrepreneur’)”, Invited Talk at the European Entrepreneurship and Innovation Thought Leaders Seminar Series, Stanford University, USA, January 2013. <https://www.slideshare.net/Cloud/europepreneurs>
  - Slides from this talk have been viewed over 8,000 times, and also generated significant interest on social media
- “Social Semantic Web”, Invited Talk at Innovation at the Verge: Computational Models of Physical / Virtual Space Interaction, Lorentz Center, Leiden, The Netherlands, 18th December 2012. <https://www.slideshare.net/Cloud/the-social-semantic-web-15712355>
- “Social Media for Charities”, Invited Talk at Fundraising Ireland, Galway, Ireland, September 2012. <https://www.slideshare.net/Cloud/social-media-for-charities-14332460>

- “Breaking Down Walls in Enterprise with Social Semantics”, Keynote Talk at the International Workshop on New Trends in Service Oriented Architecture for massive Knowledge processing in Modern Enterprise (SOA-KME 2012) at CISIS 2012, Palermo, Italy, July 2012. <https://www.slideshare.net/Cloud/breaking-down-walls-in-enterprise-with-social-semantics>
- “Lots of SIOC Data: Now What?”, Invited Talk at the IFIP Working Group 12.7 on Social Networking Semantics and Collective Intelligence, VU University, Amsterdam, 26th April 2012. <https://www.slideshare.net/Cloud/20110426a-amsterdam-ifipsnsci>
- “Social Media: Making It Work for You”, Invited Talk at the Irish Times Innovation Roadshow, Galway, 29th November 2011. <https://www.slideshare.net/Cloud/social-media-making-it-work-for-you-10381200>
- “Dealing with Information Overload”, Invited Talk at Mayo 2040, Castlebar, Ireland, November 2011. <https://www.slideshare.net/Cloud/dealing-with-information-overload-10202433>
- “SIOC Tactics”, Invited Talk at the Web Science Summer School, Galway, Ireland, July 2011. <https://www.slideshare.net/Cloud/sioc-tactics-gaining-acceptance-for-a-semantic-web-vocabulary-on-the-web>
- “Social Media: Making It Work for You”, Invited Talk at the HPSU Skillnet Turning Online Networking into Real Business Symposium, Galway, 11th November 2010. <https://www.slideshare.net/Cloud/social-media-making-it-work-for-you-5740048>
- “The SIOC Project”, Invited Talk at the Federated Social Web Summit, Portland, Oregon, July 2010. <https://www.slideshare.net/Cloud/sioc>
- “The Social Semantic Web”, Invited Talk at New York Times R&D, June 2010. <https://www.slideshare.net/Cloud/the-social-semantic-web-new-york-times-edition-4650198>
- “The Social Semantic Web”, Invited Talk at University of Maryland Baltimore County, Maryland, USA, June 2010.
- “The Social Semantic Web”, Invited Talk at the New York Semantic Web Meetup, May 2010. <https://www.slideshare.net/Cloud/another-social-semantic-web>
- “The Social Semantic Web”, Invited Talk at the Washington Semantic Web Meetup, Library of Congress, Washington DC, USA, May 2010. <https://www.slideshare.net/Cloud/a-social-semantic-web>
- “Social Media and the Semantic Web”, Invited Talk to Business School Students, DCU, Dublin, Ireland, 19th February 2010. <https://www.slideshare.net/Cloud/social-media-and-the-semantic-web>
- “The Social Semantic Web”, Invited Talk at Survival, Evolution or Extinction? Shaping Our Futures, British Librarians Group (BBSLG), Dublin, Ireland, July 2009. <https://www.slideshare.net/BLAlib/shaping-our-futures-the-social-semantic-web>
- “The Social Semantic Web”, Invited Talk at the ERCIM Workshop, Dublin, Ireland, June 2009.
- “Enhancing the Web Experience: DERI, Social Semantic Web and SIOC”, Invited Talk at the Engineers Ireland Annual Conference, Tullamore, 24th April 2009. <https://www.slideshare.net/Cloud/enhancing-the-web-experience>
- “The Social Semantic Web”, Invited Talk during Library Ireland Week, University of Limerick, March 2009, and Invited Talk at IUIISC, Galway, 5th March 2009. <https://www.slideshare.net/Cloud/the-social-semantic-web-1328494>
- “Web 2.0”, Invited Talk to Engineers Ireland Thomond Region, Limerick Institute of Technology, 2nd February 2009.
- “The Social Semantic Web”, Invited Talk to the IET Ireland Network and NUI Galway CompSoc, DERI, NUI Galway, 27th November 2008. <https://www.slideshare.net/Cloud/the-social-semantic-web-prepared-by-deri-nui-galway>
- “Alumni Social Networks”, Invited Talk to the NUI Galway Alumni Board, Hodson Bay Hotel, 7th November 2008.
- “Learning via the Social Web”, Invited Talks at the CELT Seminar Series, NUI Galway, 27th February and 30th April 2008. <https://www.slideshare.net/Cloud/learning-and-the-social-web-379318>
- “Enabling Networked Knowledge”, Invited Talk at the Digital Government / Web and Software Research Centre, Tsinghua University, Beijing, China, April 2008.
- “Emerging Social Networking Technologies and Possible Implications for Libraries”, Invited Talk at the LIR HEAnet Annual Seminar, Dublin, April 2008. <http://lirgroup.heanet.ie/sites/default/files/Seminars/2008/JohnBreslin.ppt>
- “The Social Semantic Web”, Invited Talk at the Irish Web Technologies Conference (IWTC 2008), Dublin, March 2008.

- “Social Networking and Collaboration Tools for Enterprise 2.0”, Invited Talk at the Fidelity Investments, TerraNua and ITAG Conference on Enriching the Internet Experience, Galway, October 2007. <https://www.slideshare.net/Cloud/social-networking-and-collaboration-tools-for-enterprise-20>
- “Finding Experts Using Internet-Based Discussions in Online Communities and Associated Social Networks”, Invited Talk at the ExpertFinder Workshop, Knowledge Web Assembly, Berlin, Germany, January 2007. <https://www.slideshare.net/Cloud/finding-experts-using-internetbased-discussions-in-on>
- “Semantic Web 2.0: Creating Social Semantic Information Spaces”, Invited Talk to the Technology Transfer Initiative (TTI) and ITAG, 30th November 2006. <https://www.slideshare.net/Cloud/semantic-web-20-creating-social-semantic-information-spaces>
- “Wiki Ireland”, Invited Talk to the Galway Heritage Forum, Galway, 12th July 2006. <https://www.slideshare.net/Cloud/20060712a>
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## Panels

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- “A Balanced Routing Algorithm for Blockchain Offline Channels using Flocking”, The 1st International Congress on Blockchain and Applications (BLOCKCHAIN ’19), Avila, Spain, June 2019.
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- “NUI Galway and Tourist Republic to make travelling tailor-made”, Galway Advertiser, 26th June 2008.
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- “Breslin talks Facebook’ and Bebo’, The Keith Finnegan Show, Galway Bay FM, 20th June 2008.
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- “A funny thing happened on the way to the forum”, Marie Boran, Irish Independent, 14th February 2008. <http://www.independent.ie/business/technology/a-funny-thing-happened-on-the-way-to-the-forum-1289652.html>
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- “New year, new web”, Jennifer Zaino, SemanticWeb.com, 31st December 2007.
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- “Anti-social networking”, Susan Mitchell, Sunday Business Post, 7th October 2007.
- “NUIG gets caught up in semantics”, Knowledge Ireland, 20th September 2007.
- “Flawed system for monitoring Irish web use”, Damien Mulley, Sunday Tribune, 16th September 2007.
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- “Galway bloggers nominated for Irish Digital Media Awards”, Galway Independent, 31st January 2007.
- “Virtual world is breaking old mould”, Bernie Goldbach, Irish Examiner, 26th January 2007.
- “Cyberstalking”, The Last Word with Matt Cooper, Today FM, 12th January 2007.
- “Twenty Major scoops internet award”, Irish Times, 8th December 2006.
- “Galway winners in the Net Visionary awards”, Galway Bay FM, 17th November 2006.
- “HostelWorld scoops top prize at IIA awards”, Maxim Kelly, ElectricNews.net, 17th November 2006.
- “Greene emerges as pick of the pods”, John Kennedy, Silicon Republic, 17th November 2006.
- “The secret life of the Irish blogger”, Haydn Shaughnessy, Irish Times, 6th November 2006.
- “Three Galway residents receive Net Visionary nominations”, Galway Bay FM, 6th November 2006.
- “A survivor’s guide to pods and blogs...”, Ed Power, Irish Independent, 1st November 2006.
- “Web wonders”, Ed Power, Irish Independent, 19th June 2006.
- “Bebo and NUI Galway”, Talk with Jack And Ali, Spin 1038, 29th March 2006.
- “Bebo and online social networks”, Lunchtime with Brendan O’Brien, Newstalk, 29th March 2006.
- “Colleges ban Bebo”, Enda Feeney, Daily Mail, 27th March 2006.
- “Colleges put stop to Bebo.com craze”, Mark Tighe, Sunday Times, 26th March 2006.
- “Prepare for the power of the blog”, Liam Reid, Irish Times, 21st March 2006.
- “King-size kudos for web author Twenty Major”, Jon Ihle, Irish Times, 13th March 2006.
- “NUI Galway researcher up for national award”, Julie Tierney, Galway Advertiser, 3rd November 2005.
- “Tech forum aims to share IT ideas”, Sunday Business Post, 4th September 2005.
- “TechCamp to foster innovation”, Silicon Republic, 29th August 2005.
- “Techie forum comes to Ireland”, Business Plus, 29th August 2005.
- “Rewriting the rule books”, BBC News, 15th August 2005.
- “Interview with John Breslin”, The Breakfast Show, Anna Livia FM, 10th August 2005.
- “Friend of a friend”, Five Seven Live, RTÉ Radio 1, 2nd September 2004.
- “Workshop in NUI is to take the mystery out of the Internet”, Connacht Sentinel, 31st August 2004.
- “Social networking and the Semantic Web”, Future Tense, RTÉ Radio 1, 31st August 2004.
- “At the cutting edge of computer science: meet Dr. John Breslin, helping to engineer the future of the Web”, Forfás and science.ie, 1st June 2004.

## PRIZES AND DISTINCTIONS

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- Nominee for the President's Award for Teaching Excellence at the University of Galway [2023]
- Winner of the Best Irish-Published Book of the Year at the Irish Book Awards [2020]
- Nominee for the President's Award for Teaching Excellence at NUI Galway [2020]
- Winner of the President's Award (Business Person of The Year) at the Galway Chamber Business Awards [2019]
- Winner of the President's Award for Societal Impact at NUI Galway [2019]
- Co-Supervisor and Co-Author of the Best Student Paper Award at the 12th International Conference on Internet and Distributed Computing Systems (IDCS 2019) [2019]
- Nominee for the President's Award for Research Excellence at NUI Galway [2018]
- Nominee for the President's Award for Teaching Excellence at NUI Galway [2018]
- Winner of the Best Paper Award at the 8th International Conference on the Internet of Things (IoT 2018) [2018]
- Winner of the Runner-Up Poster Award for “Entrepreneurial Skills Development for Researchers and Innovators” at the 13th European Conference on Innovation and Entrepreneurship (ECIE 2018) [2018]
- Winner of the Best Paper Award at the Workshop on Deep Learning for Knowledge Graphs and Semantic Technologies (DL4KGS 2018) [2018]
- Winner of the Best Poster Award at the MIT Innovation Ecosystem (iEcosystem) Symposium [2017]
- Listed #1 on the Lovin Media Group’s “50 Incredible People Who Are Shaping Modern Ireland” [2017]
- Winner of the Outstanding Contribution to the ICT Sector Award from ITAG (Information Technology Association of Galway) [2016]
  - This excellence award is conferred on an individual (or organisation) that has made a measurable, sustained and lasting contribution to the development of Galway / West of Ireland region as an IT / software hub of international renown
- Winner of the Best Research and Innovation Paper Award at the 12th International Conference on Semantic Systems (SEMANTiCS 2016) [2016]
  - Senior author on this paper about “Exploring Dynamics and Semantics of User Interests for User Modeling on Twitter for Link Recommendations”
- Finalist in the Research2Business Award from Knowledge Transfer Ireland (Central TTO) [2014]
  - One of four shortlisted finalists for this award, drawn from 16 nominations
  - Celebrates excellence in engagement between researchers and the business community: collaborative research, contracted services, consultancy, etc.
- Winner of the Best Paper Award for Completed Research at the 7th International Conference on Theory and Practice of Electronic Governance (ICEGOV 2013) [2013]
  - Co-author on this paper about “Harnessing the Duality of e-Participation - Social Software Infrastructure Design”
  - Top egovernment conference worldwide, organised yearly by the United Nations University
- Winner of the ESWC Seven-Year Most Influential Paper Award [2012]
  - Lead author on “Towards Semantically Interlinked Online Communities”, one of my top-cited papers
  - Main outcome was a concrete ontology that is still being used and that has been adopted by many others: website builders, tool builders, etc.
  - According to the judges: *“The authors were visionary on the approach seven years ago, the sustainability and impact of the research corroborated by the fact that SIOC is a de facto standard that is used today. The SIOC ontology has become one of the most used in the field, challenging FOAF in terms of most used outside of those supported by Google and Facebook. It has influenced numerous other pieces of work.”*
- Winner of the Prize Paper Award in the IEEE Transactions on Power Electronics [2000]

- Co-recipient of this prestigious award from the IEEE Power Electronics Society for the paper “Optimizing the AC Resistance of Multilayer Transformer Windings with Arbitrary Current Waveforms”
- Awarded Power Electronics Ireland (Enterprise Ireland) postgraduate scholarship for my PhD studies [1994]
- Won various awards as an entrepreneur
  - Winner of the Irish Internet Association’s Net Visionary Award for online trader [2006]
  - Winner of the Irish Internet Association’s Net Visionary Award for social contribution [2005]
  - Winner of a Golden Spider Award in the dot.ie readers’ choice category [2001]
  - Winner of a Zddy Award for the best community and leisure website [2001]
  - Runner-up in the National Internet Business Awards (NIBA) under the NTL Web Ireland readers’ choice category [2000]

## PROFESSIONAL ACTIVITIES

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### **External Examiner**

- Undergraduate Certificate in Innovation & Entrepreneurship, The Innovation Academy / Tangent, Trinity College Dublin [2017 – 2020]

### **Academic and Research Boards and Committees**

- Member of the Trace Alliance Data Interoperability and Semantic Web Working Group [2021 – Present]
- Member of the Panel of Experts and Funding Release Management Board, EC Horizon 2020 IN-CLUSILVER Project [2017 – 2019]
- Member of the Engineering and Computer Science Committee, Royal Irish Academy [2016 – 2018]
  - Provided input to the Department of Education and Skills’ STEM Education Policy and Implementation Plan for Schools
  - Contributed to the EU Commission Secretariat’s Horizon 2020 Societal Challenge 6 Work Programme 2018-2020
  - Suggested actions to the Gender Equality Taskforce of the Higher Education Authority
- Technical Committee Member, The IEEE Industrial Electronics Society (IES) Technical Committee on Cloud and Wireless Systems for Industrial Applications [2014 – Present]
- Dissemination Chair and Member of the Executive Scientific Board and the Management Committee, COST Action IC1302, “KEYSTONE - Semantic Keyword-Based Search on Structured Data Sources” [2013 – 2017]
- Steering Committee Member, The International AAAI Conference on Weblogs and Social Media (ICWSM) [2012 – 2019]
- Member of the User Advisory Board, EC FP7 ROBUST Project [2011 – 2013]
- Vice-Chair and Founding Member, International Federation for Information Processing (IFIP) Working Group 12.7 on Social Networking Semantics and Collective Intelligence [2010 – Present]

### **Editorial Boards**

- Editorial Board, International Journal of Health Geographics (Impact Factor 3.2) [2017 – Present]
- Editorial Board, AAAI AI Magazine [2015 – 2017]
- Guest Editor, Special Issue on Dataset Profiling and Federated Search for Linked Data, International Journal on Semantic Web and Information Systems (IJSWIS) [2016]

- Managing Editor, International Journal on Semantic Web and Information Systems (IJSWIS) [2014 – 2015]
- Editorial Board, International Journal on Semantic Web and Information Systems (IJSWIS) [2013 – 2014]
- Editorial Board, Special Issue on the Role of Semantics in Smart Cities, IOS Press Semantic Web Journal (SWJ)
- Editorial Board, International Journal of Interactive Communication Systems and Technologies (IJICST)
- Editorial Board, Transactions on Computational Collective Intelligence (TCCI), Springer LNCS
- Guest Editor, International Journal of Autonomous and Adaptive Communications Systems (IJAACS), Special Issue on Ubiquitous Deployments of Body Sensor Networks
- Guest Editor, Elsevier Journal of Web Semantics, Special Section on the Semantic and Social Web [2013]
- Guest Editor, Elsevier Journal of Computers in Industry, Special Issue on Semantic Web Computing in Industry [2010]

## Journal Reviews

- International Journal of Environmental Research and Public Health (2023)
- AI Communications (2017)
- Journal of Data and Information Quality (2015, 2016)
- Journal of Homeland Security and Emergency Management (2014)
- Elsevier Journal of Computers in Industry (2010, 2011, 2014)
- IEEE Internet Computing (2010, 2011, 2013)
- Science Communication (2013)
- Transactions on Computational Collective Intelligence (2010, 2011, 2012, 2013)
- Elsevier Journal of Web Semantics (2007, 2008, 2009, 2010, 2012)
- IEEE Spectrum (2011)
- Springer Book Series (2010)
- IEEE Intelligent Systems (2009)
- IEEE Computer Magazine (2008)
- International Journal of Health Geographics (2008)
- IEEE Transactions on Power Electronics (2004)
- IEEE Letters on Power Electronics (2004)
- Journal of Circuits, Systems and Computers (2003)



With Lada Adamic (Facebook), Igor Perisic (LinkedIn), Jimi Shanahan (Church & Duncan) at ICWSM-12  
[Picture from Irish Times]

## Conference Chairs and Organisation

- Conference Local Chair, The 29th ACM International Conference on Information and Knowledge Management (CIKM 2020)
- Planning Committee, The 2020 American Bar Association EMEA Conference: Law, Technology and Innovation
- Advisory Committee, The 5th IEEE Games, Entertainment and Media Conference (GEM 2018)
- Conference Workshops Chair, The 12th Extended Semantic Web Conference (ESWC 2015)
- Conference General Chair, The 6th International AAAI Conference on Weblogs and Social Media (ICWSM-12)
  - Brought the premier social media research conference to Ireland in 2012
  - Oversaw an increase in the number of submissions (from 260 to 274) and had a record number of attendees (345)
  - Keynotes from Andrew Tomkins, Lada Adamic, Robin Dunbar, Igor Perisic
  - Co-organised the conference's first Industry Day to connect Irish-based social media companies (NewsWhip, Storyful, Datahug) with the conference's top social media researchers
- Conference Tutorials and Workshops Chair, The 5th International AAAI Conference on Weblogs and Social Media (ICWSM-11)
- Conference General Chair, The 7th International Conference on Social Software (BlogTalk 2010)
  - Keynotes from Stowe Boyd, Dan Gillmor, Blaine Cook
- Conference Programme Chair, The 6th International Conference on Social Software (BlogTalk 2009)
  - Keynotes from Isaac Mao, Yeonho Oh
- Conference General Chair, The 5th International Conference on Social Software (BlogTalk 2008)
  - Keynotes from Salim Ismail, Nova Spivack, Michael Breidenbrücker
- Conference Organising Committee, The 31st IEEE Power Electronics Specialists Conference (PESC 2000)
- Conference Organising Committee, The 29th Universities Power Engineering Conference (UPEC 1994)

## Workshop Chairs and Organisation

- Workshop Organiser, VistaMilk Blockchain in Agriculture Masterclass 2020
- Workshop Programme Chair, The 7th International Workshop on Dataset PROFILING and fEderated Search for Linked Data (PROFILES 2020) at the 19th International Semantic Web Conference (ISWC 2020)
- Workshop Programme Chair, The 6th International Workshop on Dataset PROFILING and fEderated Search for Linked Data (PROFILES 2019) at the 18th International Semantic Web Conference (ISWC 2019)
- Workshop Programme Chair, The International Workshop on Profiling and Searching Data on the Web (PROFILES & DATA:SEARCH 2018) at the 27th Web Conference 2018 (TheWebConf 2018)
- Workshop Sponsorship Co-Chair, The 1st Workshop on Hybrid Human-Machine Computing (HHMC 2017)
- Workshop Programme Chair, The 4th International Workshop on Dataset PROFILING and fEderated Search for Linked Data (PROFILES 2017) at the 16th International Semantic Web Conference (ISWC 2017)
- Workshop Programme Chair, The 3rd International Workshop on Dataset PROFILING and fEderated Search for Linked Data (PROFILES 2016) at the 13th Extended Semantic Web Conference (ESWC 2016)
- Workshop Programme Chair, The 6th Workshop on Semantics for Smarter Cities (S4SC 2015) at the 14th International Semantic Web Conference (ISWC 2015)

- Workshop Programme Chair, The 2nd International Workshop on Dataset PROFILING and fEderated Search for Linked Data (PROFILES 2015) at the 12th Extended Semantic Web Conference (ESWC 2015)
- Workshop Programme Chair, The 5th Workshop on Semantics for Smarter Cities (S4SC 2014) at the 13th International Semantic Web Conference (ISWC 2014)
- Workshop Programme Chair, The 3rd Workshop on Semantic Web Collaborative Spaces (SWCS 2014) at the 13th International Semantic Web Conference (ISWC 2014)
- Workshop Programme Chair, The 1st International Workshop on Dataset PROFILING and fEderated Search for Linked Data (PROFILES 2014) at the 11th Extended Semantic Web Conference (ESWC 2014)
- Workshop Programme Chair, The Semantic Smart City Workshop (SemCity 2013) at the 3rd International Conference on Web Intelligence, Mining and Semantics (WIMS 2013)
- Workshop Programme Chair, The 1st International IFIP Working Conference on Value-Driven Social Semantics & Collective Intelligence (VaSCo 2013) at the 5th International ACM Web Science Conference (WebSci 2013)
- Workshop Programme Chair, The 2nd Workshop on Semantic Web Collaborative Spaces (SWCS 2013) at the 10th Extended Semantic Web Conference (ESWC 2013)
- Workshop Programme Chair, The 1st Workshop on Engineering for Semantic Enterprise (ESE 2012) at the 13th International Conference on Web Information Systems Engineering (WISE 2012)
- Workshop Programme Chair, The 1st Workshop on Semantic Web Collaborative Spaces (SWCS 2012) at the 21st International World Wide Web Conference (WWW 2012)
- Workshop Programme Chair, The 4th International Workshop on Social Data on the Web (SDOW 2011) at the 10th International Semantic Web Conference (ISWC 2011)
- Workshop Programme Chair, The 3rd International Workshop on Social Data on the Web (SDOW 2010) at the 9th International Semantic Web Conference (ISWC 2010)
- Workshop Programme Chair, The International Workshop on Ubiquitous Body Sensor Networks (UBSN 2010) at the 5th Annual International Wireless Internet Conference (WICON 2010)
- Workshop Programme Chair, The International Workshop on Social Networks Interoperability (SNI 2009) at the 4th Annual Asian Semantic Web Conference (ASWC 2009)
- Workshop Programme Chair, The 2nd International Workshop on Social Data on the Web (SDOW 2009) at the 8th International Semantic Web Conference (ISWC 2009)
- Workshop Steering Committee, The 2nd Workshop on Collective Intelligence in Semantic Web and Social Networks (CISWSN 2008) at the 7th IEEE-WIC-ACM Joint International Conference on Web Intelligence (WI 2008)
- Workshop Programme Chair, The 1st International Workshop on Social Data on the Web (SDOW 2008) at the 7th International Semantic Web Conference (ISWC 2008)
- Workshop Programme Chair, The 3rd International ExpertFinder Workshop (PICKME 2008) at the 7th International Semantic Web Conference (ISWC 2008)
- Workshop Organiser, The 1st BarCamp Workshop in Galway (BarCamp Galway)
- Workshop Programme Chair, The 2nd International ExpertFinder Workshop (FEWS 2007) at the 6th International Semantic Web Conference and the 2nd Asian Semantic Web Conference (ISWC 2007 and ASWC 2007)
- Workshop Organiser, The 1st WebCamp Workshop on Social Networks (WebCamp SN)
- Workshop Organiser, The 1st Workshop on Friend of a Friend, Social Networking and the (Semantic) Web (FOAF Galway)

## Conference and Workshop Programme Committees

- The 2nd International Conference on Mathematical Research for Blockchain Economy (MARBLE 2021)
- The 2nd Workshop on Semantic Web for Social Good (SW4SG 2019) at the 18th International Semantic Web Conference (ISWC 2019)
- The 18th International Semantic Web Conference (ISWC 2019)
- The 28th Web Conference 2019 (TheWebConf 2019)

- The International Workshop on Knowledge-Aware Recommender Systems (KaRS 2018) at the 12th ACM Conference on Recommender Systems (RecSys 2018)
- The 1st Workshop on Semantic Web for Social Good (SW4SG 2018) at the 17th International Semantic Web Conference (ISWC 2018)
- The 17th International Semantic Web Conference (ISWC 2018)
- The 14th International Conference on Semantic Systems (SEMANTiCS 2018)
- The 27th Web Conference 2018 (TheWebConf 2018)
- The 16th International Semantic Web Conference (ISWC 2017)
- The 11th International AAAI Conference on Weblogs and Social Media (ICWSM-17), Senior Programme Committee
- The 14th Extended Semantic Web Conference (ESWC 2017)
- The 1st International Linked Startup Workshop (LinkedStartup 2016) at the 15th International Semantic Web Conference (ISWC 2016)
- The 16th International Conference on Electronic Commerce and Web Technologies (ECWEB 2015), Social Web and E-Commerce Track
- The 5th Workshop on Making Sense of Microposts (#microposts2015) at the 24th International World Wide Web Conference (WWW 2015)
- The 9th International AAAI Conference on Weblogs and Social Media (ICWSM-15), Senior Programme Committee
- The 23rd Conference on User Modelling, Adaptation and Personalization (UMAP 2015)
- The Workshop on Inclusive Web Programming: Programming on the Web with Open Data for Societal Applications (IWP 2014)
- The 13th International Semantic Web Conference (ISWC 2014)
- The 8th International AAAI Conference on Weblogs and Social Media (ICWSM-14), Senior Programme Committee
- The 4th Workshop on Making Sense of Microposts (#microposts2014) at the 23rd International World Wide Web Conference (WWW 2014)
- The 11th Extended Semantic Web Conference (ESWC 2014)
- The 23rd International World Wide Web Conference (WWW 2014), Web Science Track
- The 22nd Conference on User Modelling, Adaptation and Personalization (UMAP 2014)
- The International Conference on High Performance Compilation, Computing and Communications (HP3C 2014), Technical Programme Committee
- The 7th International AAAI Conference on Weblogs and Social Media (ICWSM-13), Senior Programme Committee
- The 12th International Semantic Web Conference (ISWC 2013)
- The 3rd Workshop on Making Sense of Microposts (MSM 2013) at the 22nd International World Wide Web Conference (WWW 2013)
- The 10th Extended Semantic Web Conference (ESWC 2013), Industrial and In Use Track
- The 1st Workshop on Knowledge Extraction and Consolidation from Social Media (KECSM 2012) at the 11th International Semantic Web Conference (ISWC 2012)
- The 11th International Semantic Web Conference (ISWC 2012)
- The 2nd Workshop on Making Sense of Microposts (MSM 2012) at the 21st International World Wide Web Conference (WWW 2012)
- The 4th Workshop on Ontology Driven Information Systems Engineering (ODISE 2012) at the 7th International Conference on Formal Ontology in Information Systems 2012 (FOIS 2012)
- The 5th International AAAI Conference on Weblogs and Social Media (ICWSM-11)
- The Workshop on Language in Social Media (LSM 2011) at the 49th Annual Meeting of the Association for Computational Linguistics: Human Language Technologies (ACL HLT 2011)
- The 22nd ACM Conference on Hypertext and Hypermedia (HT 2011), Social Media Track
- The 1st Workshop on Making Sense of Microposts (MSM 2011) at the 8th Extended Semantic Web Conference (ESWC 2011)
- The 8th Extended Semantic Web Conference (ESWC 2011), Social Web and Web Science Track
- The 2nd Workshop on the Social Mobile Web (SMW 2010) at the 12th International Conference on Human Computer Interaction with Mobile Devices and Services (MOBILEHCI 2010)

- The 4th Irish Human Computer Interaction Conference (ICHI 2010)
- The International Workshop on Linking of User Profiles and Applications in the Social Semantic Web (LUPAS 2010) at the 7th Extended Semantic Web Conference (ESWC 2010)
- The International Conference on Intelligent Semantic Web: Services and Applications (ISWSA 2010)
- The Workshop on the Future of the Web For Collaborative Science (FWCS 2010) at the 19th International World Wide Web Conference (WWW 2010)
- The International Conference on Advances in Social Networks Analysis and Mining (ASONAM 2010)
- The 4th International AAAI Conference on Weblogs and Social Media (ICWSM-10)
- The 7th Extended Semantic Web Conference (ESWC 2010), Social Web, In Use, Demonstration and Poster Tracks
- The 1st International Workshop on Data Engineering Meets the Semantic Web (DESWeb 2010) at the 26th IEEE International Conference on Data Engineering (ICDE 2010)
- The 21st National Conference on Artificial Intelligence and Cognitive Science (AICS 2010)
- The 2nd Workshop on Trust and Privacy on the Social and Semantic Web (SPOT 2010) at the 7th European Semantic Web Conference (ESWC 2010)
- The 1st Workshop on Mobile Social Semantic Web (MSSW 2009) at the 4th Annual Asian Semantic Web Conference (ASWC 2009)
- The 1st Asian Workshop on Social Computing and Web Science (ASCWS 2009) at the 4th Annual Asian Semantic Web Conference (ASWC 2009)
- The International Workshop on Mobile, Multimedia, Ad-Hoc and Sensor Networks (MMASN 2009) at the 8th International Conference on Pervasive Intelligence and Computing (PICoM 2009)
- The 1st International Workshop on Collaborative Social Networks (CollaborateSN 2009) at the 5th IEEE International Conference on Collaborative Computing (CollaborateCom 2009)
- The 1st Workshop on the Social Mobile Web (SMW 2009) at the IEEE International Conference on Social Computing (SocialCom 2009)
- The 2nd International Workshop on Community-Based Evolution of Knowledge-Intensive Systems (COMBEK 2009) at the 8th On The Move Federated Conferences and Workshops (OTM 2009)
- The Workshop on Semantic Web Applications in Scientific Discourse (SWASD 2009) at the 8th International Semantic Web Conference (ISWC 2009)
- The 8th International Semantic Web Conference (ISWC 2009)
- The Workshop on Exploiting Structured Information on the Web (ESIW 2009) at the 10th International Conference on Web Information Systems Engineering (WISE 2009)
- The 1st International Conference on Computational Collective Intelligence (ICCCI 2009)
- The Workshop on Coordination, Organization, Institutions and Norms in Agent Systems in Online Communities (COIN 2009) at the Multi-Agent Logics, Languages, and Organisations Federated Workshops (MALLOW 2009)
- The 1st Workshop on Trust and Privacy on the Social and Semantic Web (SPOT 2009) at the 6th European Semantic Web Conference (ESWC 2009)
- The 6th European Semantic Web Conference (ESWC 2009)
- The W3C Workshop on the Future of Social Networking
- The AAAI Spring Symposium on the Social Semantic Web: Where Web 2.0 Meets Web 3.0 (SSW 2009)
- The 3rd Workshop on Social Aspects of the Web (SAW 2009) at the 12th International Conference on Business Information Systems (BIS 2009)
- The 1st International Workshop on Community-Based Evolution of Knowledge-Intensive Systems (COMBEK 2008) at the 7th On The Move Federated Conferences and Workshops (OTM 2008)
- The 1st International Workshop on Data Semantics in Social Computing Systems (DiSCo 2008) at the 7th On The Move Federated Conferences and Workshops (OTM 2008)
- The 3rd Asian Semantic Web Conference (ASWC 2008)
- The 6th IEEE International Workshop on Distributed Mobile Collaboration (DMC 2008)
- The 4th International Conference on Semantic Systems (I-Semantics 2008)
- The 5th European Semantic Web Conference (ESWC 2008)
- The 5th European Semantic Web Conference (ESWC 2008), Demonstration Track
- The European Web Technologies Conference (XTech 2008)

- The 17th International World Wide Web Conference (WWW 2008)
- The 2nd Workshop on Social Aspects of the Web (SAW 2008) at the 11th International Conference on Business Information Systems (BIS 2008)
- The 2nd International AAAI Conference on Weblogs and Social Media (ICWSM-08)
- The 5th International Conference on Social Software (BlogTalk 2008)
- The 6th International Semantic Web Conference and the 2nd Asian Semantic Web Conference (ISWC 2007 and ASWC 2007)
- The 1st International Conference on Advances in Semantic Processing (SEMAPRO 2007)
- The 1st SABRE Conference on the Social Semantic Web (CSSW 2007)
- The 1st Workshop on Social Aspects of the Web (SAW 2007) at the 10th International Conference on Business Information Systems (BIS 2007)
- The 31st IEEE Power Electronics Specialists Conference (PESC 2000)

## **Additional Conference and Workshop Reviews**

- The 2020 IEEE PES Innovative Smart Grid Technologies Conference Europe (ISGT Europe 2020)
- The 1st International Workshop on Ontologies in Interactive Systems (ONTORACT 2008) at the 22nd British HCI Group Annual Conference (HCI 2008)
- The 16th Conference on Information and Knowledge Management (CIKM 2007)
- Knowledge Web PhD Symposium (KWEPSY 2007)
- The 5th International Conference on Ontologies, Databases, and Applications of Semantics (ODBASE 2006)
- The 5th International Semantic Web Conference (ISWC 2006)
- The 15th International Conference on Knowledge Engineering and Knowledge Management (EKAW 2006)
- Knowledge Web PhD Symposium (KWEPSY 2006)
- The 14th International World Wide Web Conference (WWW 2006)
- Workshop on the Semantic Desktop (SEMDESK 2005) at the 4th International Semantic Web Conference (ISWC 2005)
- Workshop on Semantics in Peer-to-Peer and Grid Computing (SEMPGRID 2004) at the 13th International World Wide Web Conference (WWW 2004)
- Demonstration Session at the 3rd International Semantic Web Conference (ISWC 2004)

## **Session Chairs**

- Plenary Session V, “Revisiting Networks and Their Fundamentals”, The 8th International AAAI Conference on Weblogs and Social Media (ICWSM-14)
- Session 17, “Free Content”, The 1st International Wikimedia Conference (Wikimania 2005)
- Session FP 25.1, “Group Processes and Self-Organisation: Social Networks, Tribal- and Open Communities, Peace Education”, The 2nd IADIS International Conference on Web-Based Communities (WBC 2005)
- Session 23, “PWM DC-DC Converters”, The 31st IEEE Power Electronics Specialists Conference (PESC 2000)

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## **TEACHING EXPERIENCE**

Over my years of teaching, I have granted 25,730 ECTS, i.e. (ECTS × students) totalled over all time. I have an ECTS turnover of over 2,200 ECTS, i.e. (ECTS × students) per year on average in recent years.

In my modules, I have taught 7,370 students. In total, I have taught 4,367 unique students (i.e. taking into account people taught on multiple modules).

### **Postgraduate Diploma/Masters in TechInnovation**

- GS5105 TechInnovate I: Needs Finding to Concept Generation (2016 - 2018, 2019 - 2020)
- GS5106 TechInnovate II: Concept Development and Implementation (2016 - 2018)

### **Masters in Digital Media**

- DM110 Emerging Web Media (2006 - 2008)

### **Bachelors in Information Technology**

- EE130 Fundamentals of Electrical & Electronic Engineering I (2010 - 2016, 2018 - Present)
- CT108 Next Generation Technologies I: Semantic Web (2005 - 2007)
- CT433.iii Advanced Studies in IT: Semantic Web and Web Services (2004 - 2006)

### **Masters in Engineering**

- EE6102 Power Systems (2018 - Present)

### **Bachelors in Engineering**

- EE4103 / EE5103 Digital Control Systems for Automation and Robotics (2023 - Present)
- EE4100 / EE5120 Digital Control Systems (2011 - 2022)
- EE450 / EE6102 Power Systems (2018 - Present)
- EE231 Electronic Instrumentation and Sensors (2013 - 2016, 2018 - Present)
  - Includes classes on the Internet of Things
- EE219 Analogue Systems Design I (2013 - 2016)
- EI140 / CE141 Fundamentals of Engineering (2012 - 2016, 2018 - Present)
- EE131 Fundamentals of Electrical & Electronic Engineering II (2011 - 2012)
- EE130 Fundamentals of Electrical & Electronic Engineering I (2010 - 2012)
- EE206.ii Microprocessor Systems Engineering II (2009 - 2013)
  - Taught the first course on the Arduino at NUI Galway
  - Supervised 55 different Arduino projects ranging from ethernet-connected sensor loggers to Gmail audiovisual notifiers
- EE211 Analogue Systems Design I (2008 - 2013)
- EE109 Fundamentals of Electronic Engineering (2008 - 2010)
- EE211 / EE322 Analogue Systems Design I (2003 - 2004)
- EE207 Digital Systems I (2003 - 2004)
- EE308 Signals and Communications (2000 - 2004)
- EE321 Analogue Systems Design II (2000 - 2003)

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### **ACADEMIC CONTRIBUTIONS AND COMMUNITY LEADERSHIP**

## Discipline / Unit

- Supervisor of Valeo Prize-winning third year undergraduate project students, Brian Kelly and David Kong [2023]
- Programme Director for TechInnovate [2016 – Present] and AgInnovate [2018 – Present]
  - Having been selected for the competitive Entrepreneurship Development Program<sup>2</sup> from MIT Sloan Executive Education in 2017, adopted the MIT Disciplined Entrepreneurship process for TechInnovate
  - Received seed funding for nine 10-month, full-time, stipend-supported entrepreneurship fellowships where interdisciplinary teams from engineering, business and design backgrounds aligned unmet domain needs with a market opportunity through a technology innovation
  - Received Springboard+ funding for 30-35 participants on the MSc in AgInnovation each year from 2018 to 2026
  - Received Springboard+ funding for 33 participants on the Postgraduate Diploma in TechInnovation in 2017: “*Very good proposal, well researched with good references. Proposal identifies a skills need in the region demonstrating that there is a pool of candidates.*”
  - Brought entrepreneurship skills to 33 PhDs/postdocs during a one-week intensive module in 2017
  - Delivered intrapreneurship training to 15 industry professionals in 2017 and 15 more in 2018
  - Ran five workshops in Blackstone LaunchPad and in the PorterShed in 2017 and 2018
  - Also promotes Galway as a hub for tech/medtech startups/companies through the Galway Startup Guide, the Galway Tech Map and the Galway Medtech Map, which have in turn attracted more companies to the region
  - More recently, created maps for Galway Marine Innovation, Creative Galway and the Western AgInnovation Ecosystem at <https://github.com/techinnovate>
- Academic Simplification Director for Electrical & Electronic Engineering [2012 – 2016]
- Procurement Committee Member for Electrical & Electronic Engineering [2011 – 2012]
- Administrator for Electrical & Electronic Engineering social media presences on Twitter and Facebook [2010 – Present]
- Course Director for the BE Degree in Engineering Innovation (Electronic) [2010 – 2012]
- Module Coordinator for IE326 Oral & Written Communications and IE214 Graphic Communications [2010 – 2012]
- Marketing Committee Member for Electrical & Electronic Engineering [2010 – 2012]
- Lab Champion for Innovation and Project Laboratory in the New Engineering Building [2010 – 2011]
- Open Day Coordinator for Electrical & Electronic Engineering [2009 – 2010]
- Laboratory Director for First Year Electronic Engineering [2008 – 2012]
  - Includes students from Second Year Mechanical and Biomedical Engineering
  - Coordinator of “Beat the Box” labs for Undenominated Engineering
- PEP Coordinator for Electrical & Electronic Engineering [2008 – 2011]
- Member of the World Wide Web Consortium (W3C) Advisory Committee (Representing DERI) [2008]
- Member of the Engineering Faculty’s Academic Affairs Committee [2003 – 2004]
- Supervisor of award-winning final year undergraduate project student, Sean Coughlan [2003]
  - Winner of the regional Nortel Networks Prize and the IEI Ryan Hanley Prize
  - Runner-up in the national IEI Siemens Young Engineer Awards
- Member of the Library Committee [2001 – 2002]
  - I helped to secure electronic access to IEEE Xplore for the University
- Timetabling Director for Electronic Engineering [2000 – 2004]
- Third Year Laboratory Director for Electronic Engineering [2000 – 2004]

<sup>2</sup><https://executive.mit.edu/blog/bringing-the-disciplined-entrepreneurship-process-to-ireland-a-q-a-with-edp-participant>

## School / College

- Progression Interview Board for Lecturer Above the Bar [2022]
- Co-Principal Investigator at the Confirm SFI Research Centre for Smart Manufacturing [2019 – Present]
  - Member of the Confirm Education and Public Engagement Advisory Committee [2021 – Present]
  - Member of the Confirm Strategy Core Team [2019]
- Named Supervisor at the Artificial Intelligence and Data Analytics SFI Centre for Research Training [2019]
- Named Supervisor at the Digitally Enhanced Reality SFI Centre for Research Training [2019]
- Member of the Executive Management Team (formerly Senior Executive Committee) at the Data Science Institute [2019 – Present]
- Promotion for LGBT STEM Day at NUI Galway [2018]
- Funded Investigator at the VistaMilk SFI Research Centre for Precision Pasture-Based Dairying [2018 – Present]
- Funded Investigator at the Confirm SFI Research Centre for Smart Manufacturing [2017 – 2019]
- Co-Principal Investigator (Co-PI) at the Insight SFI Research Centre for Data Analytics [2015 – Present]
  - Insight is Ireland’s largest ICT research centre, funded by Science Foundation Ireland (SFI)
  - Co-PI indicates an independent researcher who co-holds an award from SFI, in this case under the Research Centres programme
- Funded Investigator at the Insight SFI Research Centre for Data Analytics [2013 – 2015]
- Co-Creator of CodeNinja App Competition [2011 – 2014]
  - An app development competition to grow the skillsets of students at NUI Galway and GMIT
  - Established with local SME CEOs (Ex Ordo, OnePageCRM)
  - Hundreds of students have participated in CodeNinja training workshops given by app development experts
  - One of the winner’s iSpeak app went on to feature worldwide as Microsoft’s “App of the Month”
- Mentor for First Year Engineering Students [2011 – 2012]
- Games Fleadh Mentor [2009 – 2012]
  - Mentor of XNA Games Studio runner-up team [2012]
  - Mentor of DirectX challenge winning team [2011]
  - Mentor of Robocup third-place entry [2009]
- Engineering and Informatics Liaison for the Microsoft Imagine Cup [2009 – 2012]
- Member of the College Communications Committee and Chair of Open Day Sub-Committee [2008 – 2010]
- Member of the HEA-funded ICT Working Group at NUI Galway [2008 – 2009]
- Member of multiple Graduate Research Committees in Electrical & Electronic Engineering and Data Science Institute / Insight Research Institute / DERI [2008 – Present]
- Leader of the Unit for Social Semantics (USS) at the Data Science Institute / Insight Research Institute / DERI [2005 – Present]
  - USS is the longest established research group within the institute, established as the Social Software Subcluster

## University

- Speaker at the School of Law Promotions Webinar [2022]
- Member of the Judging Panel, NUI Galway Entrepreneurship Society Startup School [2020]
- Tutor at the Start Me Up Innovation, Creativity and Entrepreneurship Bootcamp for Transition Year Students [2018]
- POC for Naughton Fellowships for Master's Students [2017 – 2018]
  - Fellowships are for University of Notre Dame undergraduates who wish to pursue a Master's degree in Ireland
  - Successfully negotiated inclusion of 16 NUI Galway Master's degrees in the areas of engineering and science
  - These degrees have been listed on the range of programmes of study from 2018 onwards
- Member of the Feedback Panel for Creative Steps as part of the Creative Momentum Project (Interreg Northern Periphery and Arctic Programme) Project [2017]
- Member of the Judging Panel, NUI Galway Entrepreneurship Society Startup School [2017]
- Principal Investigator with the Ryan Institute [2017 – Present]
- Member of Interview Board for University's Press & Information Executive [2017]
- Volunteer of Sample Case Study (Video, Application) for the Senior Lecturer Promotion Scheme [2017]
- Affiliated Researcher with the Plant & AgriBiosciences Research Centre [2016 – Present]
- Member of the Academic Reputation Advisory Board [2016 – Present]
- Member of the Blackstone LaunchPad Academic Stewardship Council [2015 – Present]
- Participant in the W3C Social Web Incubator Group [2015 – 2018]
- Member of the mHealth Research Group [2014 – Present]
- Coordinator of student entrepreneurship taskforce to create a permanent space, student society and point of contact for student entrepreneurs [2013 – 2015]
- Co-Founder and Staff Treasurer for the NUI Galway Entrepreneurship Society (EntreSoc) [2013 – Present]
  - Over 1,400 members have joined this society whose aim is to promote entrepreneurship within the University's student population.
  - Co-organised their startups2students event where 15 startup founders each gave a three-minute pitch to 120 students about internship and job opportunities with their companies, while also inspiring students to start their own companies
- Member of the University's national INSPIRED billboard and media campaign [2012 – 2013]
- Chairperson of Interview Board for University's Online Marketing Officer [2012, 2013]
- Chairperson of Interview Board for Corrib Village Marketing Officer [2012]
- Staff Partner for The New Businessman / Businesswoman, Campus Map App, Laptop Cluster, MyCollegeCal projects (Funded by NUI Galway EXPLORE) [2011 – 2012]
  - NUI Galway Award for Innovative Collaboration for EXPLORE [2012]
- Student Liaison for the Institution of Engineering and Technology [IET] [2010 – Present]
- Member of the NUI Galway Library Strategic Planning Group [2010 – 2011]
- Contributor to Strategic Partnership on Exercise strategy document for NUI Galway [2010]
- Creator and Co-Administrator of NUI Galway social media presence on Twitter @nuigalway and centralised presence on Facebook at facebook.com/nuigalway with stakeholders [2008 – Present]
- Mentor to various NUI Galway student projects in the BComm (ICE module), the BSc in Business Information Systems, Cumarsáide in Acadamh na hOllscolaíochta Gaeilge, the MSc in Enterprise Systems, the BSc in Information Technology, the AUA HDip in Technology Commercialisation, and the HDip in Software Design [2008 – Present]
  - Mentored “Bosca Glas”, 2021 winners of the ICE module

## Professional / Industry / Wider Society

- Judge for the Forbes 30 Under 30 Europe [2022]
- Tenure with Promotion Review for the American University of Beirut [2021]
- Mentor for a Marie Skłodowska-Curie Action SMART 4.0 Fellow [2021 – Present]
- Tenure Review for Associate Professor, College of Staten Island, City University of New York [2020]
- Jury Member for the EIC Accelerator [2020 – Present]
- Contributor to the “Digital Collaboration in the Food and Drink Production Supply Chain” Report for the Internet of Food Things Project [2019]
- Mentor to the Irish Team in the Junior Achievement Europe Company of the Year Competition [2019]
- Submission to the Seanad Public Consultation Committee Report on Small and Medium Sized Businesses in Ireland [2019] [https://data.oireachtas.ie/ie/oireachtas/committee/dail/32/seanad-public-consultation-committee/reports/2019/2019-05-16\\_small-and-medium-sized-businesses-in-ireland.pdf](https://data.oireachtas.ie/ie/oireachtas/committee/dail/32/seanad-public-consultation-committee/reports/2019/2019-05-16_small-and-medium-sized-businesses-in-ireland.pdf)
- Member of the Steering Group for Scale Ireland (formerly the Startup Policy Project) [2019 – Present]
  - Provided input to the White Paper on Enterprise Policy Submission [2022]
  - Provided input to the Pre-Budget Submission for Budget 2020 [2019]
- Member of the Advisory Board for the Copernicus Hackathon Ireland [2019]
- Mentor at SAP.iO Accelerate at the SAP Innovation Center in Potsdam, Germany [2018]
- Member of the Steering Group for Tech/Life Ireland with the Department of Business, Enterprise and Innovation, Enterprise Ireland and the IDA [2018]
- Participant in the Bioeconomy Innovation Platform Group for the Department of Agriculture, Food and the Marine [2018]
- Participant in the Galway 2020 Legacy Conference [2018]
- Mentor at Social Entrepreneurs Ireland Galway Academy [2018]
- Mentor at Bank of Ireland startlab Galway [2018]
- Member of the Regional Mentoring/Judging Panel for SAP.iO Accelerate [2018]
  - One of our SAP Ireland teams was among the eight finalists that were selected from a global entry of 75 teams
- Member of the Judging Panel for the Invest In Ireland Awards [2018 – 2019]
- Member of the Judging Panel for the Defence Forces Chief of Staff Innovation Award [2018]
- Mentor at the BonBillo Social Impact Incubator, Boston, USA [2017 – 2018]
- Member of the Review Panel for the Department of Business, Enterprise and Innovation’s National Policy Statement on Entrepreneurship [2017 – 2018]
  - Invited to the Entrepreneurship Academics Pillar
  - Provided input to the mid-term review and findings from stakeholder consultations
- Member of the Galway Judging Panel, AIB Start-up Academy [2017]
- Member of the Advisory Board, TechIreland.org (previously the Definitive Data Project, Dublin Commissioner for Startups) [2016 – 2017]
- Member of the Judging Panel, Bank of Ireland TY Academy [2016]
- Member of the Regional Judging Board, Bank of Ireland Startup Awards [2016]
- Contributor to the “Computers and Data” Science Apprentice Book [2016]
  - This book was distributed by the Irish Independent, produced by UCD and partners, and supported by SFI Discover and PRTLI
- Member of the Fáilte Ireland Conference Ambassador Club [2015 – Present]
- Co-Founder of Innovating West [2015 – Present]
- Member of the Advisory Panel for the Galway 2020 European Capital of Culture [2015 – 2016]
  - Advised on Galway’s bid for the European Capital of Culture (ECoC)
  - Met with the judging panel during their visit (as a representative of the business community)
  - Galway was awarded European Capital of Culture 2020 in July 2016

- Member of the New Media Consortium Horizon Project Ireland Expert Panel [2015]
- Participant in the Startups Session of the Global Irish Economic Forum [2015]
- Galway City Coordinator and Member of the Steering Group, Startup Gathering [2015]
  - The Startup Gathering was a public/private partnership intended to advance the goal of Ireland becoming a startup hub by 2020
  - Invited by Gerald Nash TD, Minister of State for Business and Employment, to participate on the Steering Group
  - The initiative was led by Startup Ireland, now part of Connect Ireland
- Organiser of the first Galway Startup Weekend [2014]
- NUI Galway ICT Research POC for 20+ prospective companies locating in the Galway region on request from the IDA, including various success stories like CyberScout/IDT911, Genesys, MetLife, Perseus and SOTI [2011 – Present]
- Member of the Judging Board, SCCUL Enterprise Awards [2014, 2015]
- Co-Organiser of Exponential Tech Talks [2012 – 2013]
  - Exponential was a series of tech founder talks held in a casual setting, funded by NUI Galway EXPLORE
  - Speakers included the CEOs of GetHealth, Decisions4Heroes and Redeem&Get
  - Exponential was one of the first mechanisms to foster links between aspiring student entrepreneurs and those already established in the business community
- Social Media Committee Member for the Information Technology Association of Galway (ITAG) [2012]
- Interview Board Member for Lecturer in Computing at the University of Limerick [2009]
- Interviewee about the app economy by RTÉ Nine O'Clock News [2018] and France 24 [2013], about social media on Newstalk [2011], about sensors and smartphone privacy for New Scientist [2010], about the birth of the web for RTÉ Radio 1 Morning Ireland [2010], and other media coverage (over 250 items) [2008 – Present]
  - Quoted by various other media sources on my research topics including Sunday Business Post, Sunday Times, Sunday Tribune, Irish Times, Irish Independent, Irish Examiner, Today FM, Galway Bay FM, TG4, Knowledge Ireland, BBC News, PC World, Washington Post and CNN

## PROFESSIONAL MEMBERSHIPS

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Senior Member, The Institute of Electrical and Electronics Engineers (IEEE)	[1994 – Present]
Member, Engineers Ireland	[2008 – 2019]
Member, The Irish Federation of University Teachers (IFUT)	[2011 – 2017]
Member, The Institution of Engineering and Technology (IET)	[1994 – 2014]

## ENTREPRENEURSHIP AND BOARD / ADVISORY ROLES

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### Founder

- Co-Founder and Non-Executive Director, Galway City Innovation District CLG (PorterShed) [2015 – Present]
  - The first innovation hub in the not-for-profit Galway City Innovation District, the PorterShed, opened in April 2016

- The PorterShed now has over 100 seats, and is home to 44 startup companies
  - It contributes an estimated €15 million per annum to the local economy
  - The average salary is €65,000
  - It has supported the creation of 660 jobs, including graduating companies, scaleups, soft landing successes, acquisitions, and associated support jobs
  - 15 companies have now graduated from the NDRC at PorterShed accelerator
  - 35% of PorterShed's members are female
  - 11 of the 44 member companies based in the PorterShed are led by female founders
  - PorterShed companies have raised over €20 million in funding
  - 550 events have been held in the space since it opened with nearly 10,000 attendees
  - The Galway City Innovation District was widely cited in Ireland's ranking as an "Innovation Leader" country in the International Innovation Scorecard 2018 from the Consumer Technology Association (CTA), the organisation behind CES
  - Featured in Forbes in December 2015
- Co-Founder and Chairman, Startup Galway [2013 – 2016]
  - Not-for-profit organisation with a governing structure
  - An initiative to develop a more entrepreneurial ecosystem in Galway
  - Established with Barry O'Sullivan (ex-SVP Cisco, now Altocloud), Michael FitzGerald (OnePage-CRM), John Brosnan (Netfort)
  - Community of over 900 people and growing, with over 100 at each monthly tech meetup
  - Brings together founders and budding entrepreneurs, students and researchers, government agency representatives, multinational / SME employees, to learn from a successful tech leader
  - Speakers so far include founders and investors (Pat Phelan, Dermot Berkery, Declan Ganley, Paul Kenny, Christopher Byrne, Iseult Ward, Colman Farrell, Mark Bowles, Sean O'Sullivan, Siobhan Maughan, Bob Rosenberg, Mareese Keane, Gareth Keane, Jerry Kennelly)
- Founder, Social Media Ltd. (New Tech Post) [2011 – 2012] and Technology Voice [2012 – Present]
  - Promotes technology innovation and research in Ireland
  - Published a yearly list of 38 Irish and Ireland-based technology women (the 2014 version, syndicated to IrishCentral.com, received over 2,000 social media shares and 10,000 views)
  - Produced the monthly "Technology Voice Show" (podcast and broadcast on Galway's student radio station), discussing Irish tech companies and university / industry research
- Co-Founder, StreamGlider Inc. (real-time streaming newsreader for tablets) [2011 – 2014]
  - Set up with Nova Spivack and the late Bill McDaniel
  - Featured on top tech news site TechCrunch
  - Received investment from SVG Partners (John Hartnett, John Ryan, Barry O'Sullivan)
  - US patent pending (20120227077)
- Co-Founder, Adverts Marketplace Ltd. [2006]
  - adverts.ie is a popular online classified adverts service, and a spin-off company from boards.ie
  - Acquired in a joint venture by Distilled Media Group and Schibsted Media Group in 2015
  - adverts.ie employed about 10 people in Dublin
- Co-Founder, boards.ie Ltd. [2000]
  - Director [2000 – 2018]
  - Ireland's largest forum community, 2.5 million visitors per month
  - boards.ie employed about 12 people in Dublin before its merger with Journal Media Ltd. in 2018
  - Made a 10-year social media dataset available to academic and industrial researchers worldwide, which has been leveraged in the Enterprise Ireland-funded SociaLens, by FP7 Integrated Projects ROBUST, Ecospace and Aristotle, and by research in companies such as HP

## Company Board and Advisory Roles

- Comhalta den Bhord Stiúrthóirí, Gaillimh le Gaeilge [2022 – Anois]
  - Cathaoirleach [2024 – Anois]
- Member of the Board of Directors, WestBIC [2014 – 2022]
  - Chair [2019 – 2021, 2021 – 2022]
  - Vice-Chair [2019, 2021]
  - WestBIC provides advice and services for entrepreneurs planning or starting a new business in the West of Ireland
- Member of the Board of Directors, American Council on Exercise [2013 – 2019]
  - ACE is the largest non-profit fitness certification organisation in the world
  - Director Emeritus [2019 – Present]
  - Secretary (officer of the corporation), Member of the Executive Committee, Member of the Compensation Committee [2017 – 2019]
  - Chair of the Bylaws and Governance Committee [2014 – 2019]
- Advisor to various emerging technology companies
  - AYLIEN (IE): a text analytics framework powered by semantic technologies, and funded by SOSV (Sean O’Sullivan, Bill Liao) and Atlantic Bridge Ventures [2014 – 2023]
  - Pocket Anatomy (IE, based in Ignite TTO at NUI Galway): a 3D human body educational tool for the iPad; winner of The Next Web Best Tech Startup Award in 2014 [2014 – 2019]
  - AISLER (DE): seamlessly integrates the electrical engineering process into a company-wide collaboration platform [2014 – 2016]
  - BuilderEngine (IE): a next-generation HTML5 web builder and CMS [2013 – 2019]
  - BirdLeaf (IE): aggregate demographic analyses of customer prospects simply based on a list of email addresses [2013 – 2016]
  - CrowdGather (US): a discussion forum network [2011 – 2014]

## Colourisation Work

- Imagery for an exhibition on Lady Mary Heath, Foynes Flying Boat & Maritime Museum, 2023.
- Cover for a forthcoming book by Stephen Finlay Archer, 2023.
- Exhibition of “Old Ireland in Colour”, Festival Interceltique de Lorient, France, August 2023.
- Imagery for “Star Wars: Visions Filmmaker Focus — Screecher’s Reach”, 2023. [Unused]
  - Old Ireland in Colour photos were used as references by Cartoon Saloon for “Screecher’s Reach” in the Star Wars universe.
- Front and back cover for the book “Crean: The Extraordinary Life of an Irish Hero”, Tim Foley, Merrion Press, 2023.
- Imagery for a film on the Thompson Dock and Pumphouse, Belfast, 2023 to Present.
- Imagery for Templemore Baths, Belfast, 2023 to Present.
- Imagery for the exhibition “Irish Civil War”, Tipperary Museum of Hidden History, 2023.
- Imagery for the TV series “The Irish Civil War”, Tyrone Productions, RTÉ One, December 2022.
- Imagery for an episode of the TV series, “Tommy Tiernan’s Epic West”, Crossing the Line Productions, December 2022.
- Cover for the album “Rebel Irishwomen”, Claddagh Records, December 2022.
- Cover for the book “No Middle Path: The Civil War in Kerry”, Owen O’Shea, Merrion Press, October 2022.
- Taispeántas “Pictiúir Daite d’Árann Ársa (Old Aran in Colour)”, Áras Dán na Mílaoise, Ollscoil na Gaillimhe, Meán Fómhair go Nollaig 2022.
- Taispeántas “Pictiúir Daite d’Árann Ársa (Old Aran in Colour)”, Áras Éanna, Inis Oírr, Iúil go Meán Fómhair 2022.

- Exhibition of “Old Cork in Colour”, Mitchel Hall, Spike Island, Cork, April to November 2022.
- Exhibition of “Old Ireland in Colour”, Áras Uí Chonghaile (James Connolly Visitor Centre), Belfast, March and April 2022.
- Exhibition of “Old Galway in Colour”, Galway City Museum, Galway, December 2021 to June 2022. <https://www.galwaycitymuseum.ie/blog/old-galway-in-colour-a-word-from-john-breslin/>
- Cover for the book “Kenmare: History and Survival”, Colum Kenny, Eastwood Books, October 2021. [https://wordwellbooks.com/index.php?route=product/product&product\\_id=1983](https://wordwellbooks.com/index.php?route=product/product&product_id=1983)
- Cover for the book “The Songs of Elizabeth Cronin: Irish Traditional Singer”, Dáibhí Ó Cróinín, Four Courts Press, October 2021. <https://www.fourcourtspress.ie/books/new-year-folder/elizabeth-cronin/>
- Imagery for the exhibition “War of Independence”, Tipperary Museum of Hidden History, June 2021.
- Cover for the magazine “When a Princess Came Calling”, Ireland’s Own, June 2021. <https://www.irelandsown.ie/when-princess-grace-came-to-ireland/>
- Cover for the book “Liberty Hall”, Michael O’Loughlin, New Island Books, April 2021. <https://www.newisland.ie/poetry-drama/liberty-hall>
- Imagery for the article “Anglo-Irish War / 100th Anniversary: Go All Out or Get Out”, John Dorney, Britain at War Magazine, March 2021.
- Íomháonna don tsraith teilihíse “Scéalta Grá na hÉireann”, Bo Media, TG4, January 2021. <https://www.imdb.com/title/tt13710598/>
- Imagery for the TV programme “74 Days: The Hunger Strike of Terence MacSwiney”, ForeFront Productions, RTÉ, October 2020. <https://www.imdb.com/title/tt13334754/>
- Imagery for the web series “War of Independence in Colour”, RTE.ie, July and August 2020. <https://www.rte.ie/author/1151129-john-breslin/>
- Poster for the theatre production “DruidGregory”, Druid Theatre, September 2020. <https://www.druid.ie/productions/druidgregory>
- Cover for the book “Art, Ireland, and the Irish Diaspora”, Éimear O’Connor, Irish Academic Press, September 2020. <https://irishacademicpress.ie/product/art-ireland-and-the-irish-diaspora/>
- Cover for the book “The Comeraghs: Gunfire and Civil War”, Waterford County Museum, May 2020. <https://www.amazon.com/Comeraghs-Gunfire-Civil-War-1914-1924-ebook/dp/B0894QXYX3>

## REFERENCES

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Referees are available on request.

Recommendations from discipline / institute leadership:

- Professor Manfred Hauswirth, Former Vice Director, DERI: “John is one of the most creative and innovative people I know. I am always surprised how he can work on so many things in such great detail in parallel and come up with really great results. Besides being an excellent researcher, John is truly a committed teacher, always trying to support his students in the best possible way.”
- Professor David Wilcox, Former Head of Department, Electronic Engineering: “John Breslin is dedicated and sincere in all his work. He is exceptionally talented and can be relied on to perform perfectly any assignment. He is versatile and rapidly adapts to new developments. It is a pleasure to see John establish himself as a deserving international leader in his field.”