



Professor John Gerard Breslin

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SUMMARY

Award-Winning and Highly-Cited Professor in Engineering and Informatics at NUI Galway; Researcher and Co-PI at Confirm, Insight and FI at VistaMilk; Programme Director of TechInnovate and AgInnovate; Serial Entrepreneur, Startup Co-Founder and Board Member; Bestselling Co-Author of Old Ireland in Colour

PROFESSIONAL EXPERIENCE

Personal Professor (2019 – Present)

Senior Lecturer (2014 – 2019)

Lecturer Above the Bar (2008 – 2014)

College of Engineering and Informatics, NUI Galway

2008 – Present

Postgraduate Researcher and Adjunct Lecturer

Digital Enterprise Research Institute, NUI Galway

2004 – 2008

Junior Lecturer (Fixed Term)

Department of Electronic Engineering, NUI Galway

2000 – 2004

Research Officer

Power Electronics Research Centre, NUI Galway

1997, 1998, 1999

EDUCATION

Executive Program, Entrepreneurship Development

Massachusetts Institute of Technology, Cambridge, MA, USA

2017

Postgraduate Certificate, Teaching and Learning in Higher Education

National University of Ireland Galway, Ireland

2013

Doctor of Philosophy, Engineering

National University of Ireland Galway, Ireland

2002

Bachelor of Engineering, Electronics, First Class Honours

National University of Ireland Galway, 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

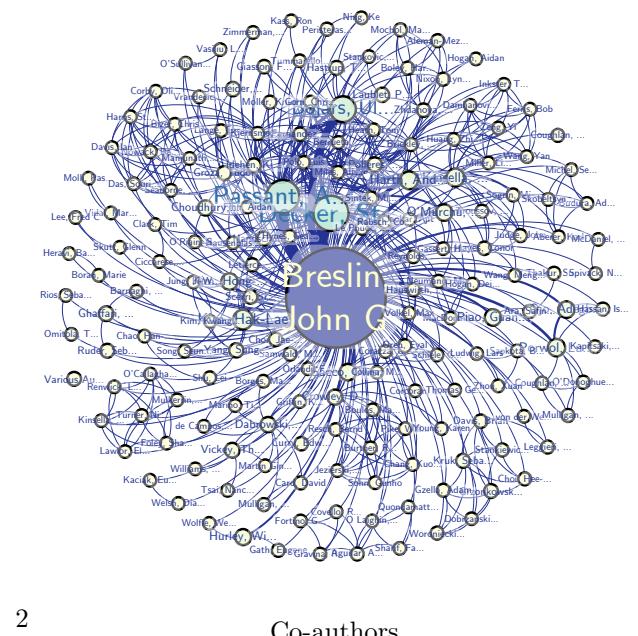
Research Activity

Total refereed papers:	228
Total books / book chapters:	7 / 18
Total PhDs / Masters graduated:	13.5 / 5.5
Total NUI Galway funding as budget holder:	€6,707,386
Total NUI Galway funding as PI / Co-PI:	€44,292,978
Current size of team:	14 (8 postgraduates; 4 postdocs; 1.5 lecturers; 0.5 admin)
Awards and honours:	Best papers at IDCS, IoT, DL4KGS, SEMANTiCS, ICEGOV, ESWC, IEEE PELS
Journals reviewed for:	20
Conference / workshop chairs:	5 / 20
Conference / workshop programme committees:	40 / 30
Other relevant indicators:	<p>Co-PI on the €49 million Insight Research Centre Phase 2 grant</p> <p>Co-PI on the €47 million Confirm Research Centre grant</p> <p>Co-PI on the €44 million Insight Research Centre grant</p> <p>Co-PI on the €15 million DERI Lón II CSET grant</p> <p>Project Leader for the €12 million DERI Lón I CSET grant from 2006 – 2008</p>

PUBLICATIONS

According to Google Scholar Citations, my h-index is **42** and I have over **7,500** citations. My ORCID is 0000-0001-5790-050X.

My top cited publications (with over 250 citations) are: “Crowdsourcing, Citizen Sensing and Sensor Web Technologies for Public and Environmental Health Surveillance and Crisis Management” (cited by 484); “Optimizing the AC Resistance of Multilayer Transformer Windings with Arbitrary Current Waveforms” (cited by 392); “Towards Semantically Interlinked Online Communities” (cited by 341); “The Future of Social Networks on the Internet: The Need for Semantics” (cited by 330); “The Social Semantic Web” (cited by 329); “Optimized Transformer Design: Inclusive of High Frequency Effects” (cited by 291), and “Online Social and Business Networking Communities” (cited by 273).



I have collaborated with **180** 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 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*. Merrion Press, Oct. 2020. ISBN: 9781785373701.
- [2] Various Authors. *Semantic Web Collaborative Spaces*. Ed. by Pascal Molli, John G Breslin, and Maria-Esther Vidal. Vol. 9507. LNCS. Springer, Apr. 2016.
- [3] Various Authors. *The Semantic Web: ESWC 2015 Satellite Events*. Ed. by Fabien Gandon, Christophe Guéret, Serena Villata, John G Breslin, Catherine Faron-Zucker, and Antoine Zimmermann. Springer, Oct. 2015. ISBN: 9783319256382.
- [4] Tope Omitola, Sebastián A Ríos, and John G Breslin. *Social Semantic Web Mining*. Morgan and Claypool, Jan. 2015. ISBN: 9781627053983.
- [5] Various Authors. *Proceedings of the Sixth International Conference on Weblogs and Social Media*. Ed. by John G Breslin, Nicole B Ellison, James G Shanahan, and Zeynep Tufekci. AAAI Press, June 2012. ISBN: 9781577355564.

- [6] Various Authors. *Recent Trends and Developments in Social Software*. Ed. by John G Breslin, Thomas N Burg, Hong-Gee Kim, Tom Raftery, and Jan-Hinrik Schmidt. Springer, Nov. 2010. ISBN: 9783642165801.
- [7] John G Breslin, Alexandre Passant, and Stefan Decker. *The Social Semantic Web*. Springer, Oct. 2009. ISBN: 9783642011719.

Book Chapters

- [8] 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. ISBN: 9781799866503. DOI: 10.4018/978-1-7998-6650-3.
- [9] 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.
- [10] 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.
- [11] 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.
- [12] 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.
- [13] 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.
- [14] 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.
- [15] 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.
- [16] 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.
- [17] 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.
- [18] 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.
- [19] John G Breslin. “Social Semantic Information Spaces”. In: *Semantic Digital Libraries*. Springer, Oct. 2008, pp. 55–70. ISBN: 9783540854333.
- [20] 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.
- [21] 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.
- [22] Sheila Kinsella, Andreas Harth, Alexander Troussov, 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.

- [23] 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.
- [24] 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.
- [25] 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

- [26] 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 & Energy Systems* (2021).
- [27] 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.
- [28] 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 & Energy Systems* 115 (July 2019). DOI: 10.1016/j.ijepes.2019.105419.
- [29] Radhya Sahal, John G Breslin, and Muhammad I Ali. "Big Data and Stream Processing Platforms for Industry 4.0: Requirements Mapping for Predictive Maintenance Use Case". In: *Journal of Manufacturing Systems* (Dec. 2019). DOI: 10.1016/j.jmsy.2019.11.004.
- [30] Guangyuan Piao and John G Breslin. "Inferring User Interests in Microblogging Social Networks: A Survey". In: *User Modeling and User-Adapted Interaction* 28.3 (Aug. 2018), pp. 277–329. ISSN: 15731391. DOI: 10.1007/s11257-018-9207-8.
- [31] Piyush Verma, Brian O'Regan, Barry P Hayes, Subhasis Thakur, and John G Breslin. "EnerPort: Irish Blockchain Project for Peer-to-Peer Energy Trading". In: *Energy Informatics* (Sept. 2018). DOI: 10.1186/s42162-018-0057-8.
- [32] Mohamed Ben Ellefi, Zohra Bellahsene, John G Breslin, Elena Demidova, Stefan Dietze, Julian Szymanski, and Konstantin Todorov. "RDF Dataset Profiling: A Survey of Features, Methods, Vocabularies and Applications". In: *Semantic Web Journal* (Aug. 2017). ISSN: 15700844.
- [33] Subhasis Thakur and John G Breslin. "A Robust Reputation Management Mechanism in Federated Cloud". In: *IEEE Transactions on Cloud Computing* (Mar. 2017). ISSN: 21687161. DOI: 10.1109/TCC.2017.2689020.
- [34] 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.
- [35] Lukasz Porwol, Adegboyega Ojo, and John G Breslin. "An Ontology for Next Generation e-Participation Initiatives". In: *Government Information Quarterly* (Feb. 2016). ISSN: 0740624X.
- [36] Lukasz Porwol, Adegboyega Ojo, and John G Breslin. "Social Software Infrastructure for e-Participation". In: *Government Information Quarterly* (Feb. 2016). ISSN: 0740624X.
- [37] 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).
- [38] Theodore A Vickey and John G Breslin. "Do as I Tweet, Not as I Do: Comparing Physical Activity Data Between Fitness Tweets and Healthy People 2020". In: *The mHealth Journal* (Nov. 2015). ISSN: 23069740.

- [39] Owen Sacco and John G Breslin. "In Users We Trust: Towards Social User Interactions Based Trust Assertions for the Social Semantic Web". In: *The Journal of Social Network Analysis and Mining* 4.1 (Aug. 2014).
- [40] John G Breslin. "From Arcades to Apps: The History of Computer Games is Repeating Itself / So You Want to Break Into the Games Industry? Here's How?" In: *IEEE Consumer Electronics Magazine* (Jan. 2013), pp. 59–63.
- [41] Theodore A Vickey, Kathleen Martin Ginis, Maciej Dabrowski, and John G Breslin. "Twitter Classification Model: The ABC of Two Million Fitness Tweets". In: *The Journal of Translational Behavioral Medicine* (May 2013).
- [42] Maged N Kamel Boulos, Bernd Resch, David N Crowley, John G Breslin, Gunho Sohn, Russ Burtner, William A Pike, Eduardo Jeziorski, and Kuo-Yu Slayer Chang. "Crowdsourcing, Citizen Sensing and Sensor Web Technologies for Public and Environmental Health Surveillance and Crisis Management: Trends, OGC Standards and Application Examples". In: *The International Journal of Health Geographics* 10.67 (Dec. 2011). Ed. by BioMed Central. Most Accessed Article.
- [43] Hak-Lae Kim, John G Breslin, Han-Chieh Chao, and Lei Shu. "Evolution of Social Networks Based on Tagging Practices". In: *IEEE Transactions on Services Computing* (Nov. 2011).
- [44] Hak-Lae Kim, John G Breslin, Stefan Decker, and Hong-Gee Kim. "Mining and Representing User Interests: The Case of Tagging Practices". In: *IEEE Transactions on Systems, Man, and Cybernetics, Part A: Systems and Humans* (July 2011).
- [45] Hak-Lae Kim, Simon Scerri, Alexandre Passant, John G Breslin, Siegfried Handschuh, Stefan Decker, and Hong-Gee Kim. "Integrating Tagging into the Web of Data: Overview and Combination of Existing Tag Ontologies". In: *The Journal of Internet Technology* 12.4 (July 2011).
- [46] John G Breslin, David O'Sullivan, Alexandre Passant, and Laurentiu Vasiliu. "Semantic Web Computing in Industry". In: *Computers in Industry* 61.8 (June 2010), pp. 729–741.
- [47] Hak-Lae Kim, John G Breslin, and Jae-Hwa Choi. "Semantic Representation for Copyright Metadata of User-Generated Content in Folksonomies". In: *Online Information Review* 34.4 (Aug. 2010), pp. 626–641.
- [48] Hak-Lae Kim, John G Breslin, Hong-Gee Kim, and Jae-Hwa Choi. "Social Semantic Cloud of Tags: Semantic Model for Folksonomies". In: *The Journal of Knowledge Management Research and Practice* 8.3 (Oct. 2010), pp. 193–202.
- [49] Tudor Groza, Siegfried Handschuh, John G Breslin, and Stefan Decker. "An Abstract Framework for Modeling Argumentation in Virtual Communities". In: *The International Journal of Virtual Communities and Social Networking* 1.3 (July 2009), pp. 37–49.
- [50] Sławomir Grzonkowski, Adam Gzella, Sebastian Ryszard Kruk, John G Breslin, Tomasz Woroniecki, and Jarosław Dobrzanski. "Sharing Information Across Community Portals with FOAFRealm". In: *The International Journal of Web-Based Communities* 3.5 (May 2009), pp. 351–370.
- [51] Hak-Lae Kim, John G Breslin, Stefan Decker, and Jae-Hwa Choi. "Personal Knowledge Management for Knowledge Workers Using Social Semantic Technologies". In: *The International Journal of Intelligent Information and Database Systems* 3.1 (Jan. 2009), pp. 28–43.
- [52] Hak-Lae Kim, Stefan Decker, and John G Breslin. "Representing and Sharing Folksonomies with Semantics". In: *The Journal of Information Science* (Sept. 2009).
- [53] Alexandre Passant, Philippe Laublet, John G Breslin, and Stefan Decker. "A URI is Worth a Thousand Tags: From Tagging to Linked Data with MOAT". In: *The International Journal on Semantic Web and Information Systems* 5.3 (July 2009). Ed. by Chris Bizer, Tom Heath, and Martin Hepp, pp. 71–94.
- [54] Alexandre Passant, Matthias Samwald, John G Breslin, and Stefan Decker. "Federating Distributed Social Data to Build an Interlinked Online Information Society". In: *IEEE Intelligent Systems* 24.6 (Nov. 2009), pp. 44–48.

- [55] Uldis Bojārs, John G Breslin, Aidan Finn, and Stefan Decker. “Using the Semantic Web for Linking and Reusing Data Across Web 2.0 Communities”. In: *Special Issue on the Semantic Web and Web 2.0 in the Journal of Web Semantics* 6.1 (Feb. 2008), pp. 21–28.
- [56] Uldis Bojārs, John G Breslin, Vassilios Peristeras, Giovanni Tummarello, and Stefan Decker. “Interlinking the Social Web with Semantics”. In: *IEEE Intelligent Systems* 23.3 (May 2008), pp. 29–40.
- [57] Elizabeth Lawlor, John G Breslin, Laoise Renwick, Sharon Foley, Una Mulkerrin, Anthony Kinsella, Niall Turner, and Eadbhard O’Callaghan. “Mental Health Literacy Among Internet Users”. In: *The Journal on Early Intervention in Psychiatry* 2.4 (Oct. 2008), pp. 247–255.
- [58] John G Breslin and Stefan Decker. “The Future of Social Networks on the Internet: The Need for Semantics”. In: *IEEE Internet Computing* 11 (Nov. 2007), pp. 86–90.
- [59] John G Breslin, Stefan Decker, Andreas Harth, and Uldis Bojārs. “SIOC: An Approach to Connect Web-Based Communities”. In: *The International Journal of Web-Based Communities* 2.2 (June 2006), pp. 133–142.
- [60] Uldis Bojārs, John G Breslin, Andreas Harth, and Stefan Decker. “Towards Semantically-Interlinked Online Communities”. In: *The UPGRADE European Journal for the Informatics Professional* 6.6 (Dec. 2005).
- [61] Marco Neumann, Ina O’Murchu, John G Breslin, Stefan Decker, Deirdre Hogan, and Ciaran MacDonaill. “Semantic Social Network Portal for Enterprise Online Communities”. In: *The Journal of European Industrial Training (Special Edition)* 29.6 (Aug. 2005), pp. 472–487.
- [62] John G Breslin and W Gerard Hurley. “Critical Choices in a System for Optimised Design of Arbitrary Waveform Transformers”. In: *The Journal of Circuits, Systems and Computers (JCSC)* 13.4 (Aug. 2004), pp. 919–928.
- [63] Sean Coughlan and John G Breslin. “Handheld Solutions for the Retail Sector”. In: *The Irish Engineers Journal* 57 (Nov. 2003), pp. 53–54.
- [64] W Gerard Hurley, Eugene Gath, and John G Breslin. “Optimizing the AC Resistance of Multilayer Transformer Windings with Arbitrary Current Waveforms”. In: *IEEE Transactions on Power Electronics* 15.2 (Mar. 2000). Prize Paper Award, pp. 369–376.
- [65] W Gerard Hurley, Werner Wölfle, and John G Breslin. “Optimized Transformer Design: Inclusive of High Frequency Effects”. In: *IEEE Transactions on Power Electronics* 13.4 (July 1998), pp. 651–659.

Conference and Workshop Papers

- [66] Parit Mehta, Rudresh Dwivedi, Ciaran Feeney, Pankesh Patel, Muhammad I Ali, and John G Breslin. “Towards Designing an Explainable-AI based Solution for Livestock Mart Industry”. In: *The ACM India Joint International Conference on Data Science & Management of Data (CODS-COMAD 2021)*. Young Researchers’ Symposium Track. Bangalore, India, Jan. 2021. DOI: [10.1145/3430984.3431071](https://doi.org/10.1145/3430984.3431071).
- [67] Vatsal Patel, Sarth Kanani, Tapan Pathak, Pankesh Patel, Muhammad I Ali, and John G Breslin. “An Intelligent Doorbell Design Using Federated Deep Learning”. In: *The ACM India Joint International Conference on Data Science & Management of Data (CODS-COMAD 2021)*. Bangalore, India, Jan. 2021. DOI: [10.1145/3430984.3430988](https://doi.org/10.1145/3430984.3430988).
- [68] Saurabh Shukla, Subhasis Thakur, and John G Breslin. “Secure Data Transmission in Smart Meters Using Q-Learning in Fog Computing Environment”. In: *The 6th International Congress on Information and Communication Technology (ICICT 2021)*. London, UK, Feb. 2021.
- [69] Kosala Y Bandara, Subhasis Thakur, and John G Breslin. “Enrichment of Blockchain Transaction Management with Semantic Triples”. In: *The 3rd IEEE International Conference on Blockchain (Blockchain 2020)*. Rhodes, Greece, Nov. 2020. DOI: [10.1109/Blockchain50366.2020.00030](https://doi.org/10.1109/Blockchain50366.2020.00030).
- [70] Kosala Y Bandara, Subhasis Thakur, and John G Breslin. “Renewable Energy Integration Through Coalition Formation for P2P Energy Trading”. In: *The 3rd IEEE International Conference on Renewable Energy and Power Engineering (REPE 2020)*. Best Presentation Award. Rhodes, Greece, Oct. 2020. DOI: [10.1109/REPE50851.2020.9253870](https://doi.org/10.1109/REPE50851.2020.9253870).

- [71] Sweta Malik, Maeve Duffy, Subhasis Thakur, Barry Hayes, and John G Breslin. “Cooperative Game Theory-Based Peer-to-Peer Energy Trading Algorithm”. In: *The 12th Mediterranean Conference on Power Generation, Transmission, Distribution and Energy Conversion (MEDPOWER 2020)*. Paphos, Cyprus, Nov. 2020.
- [72] Bharath Sudharsan, John G Breslin, and Muhammad I Ali. “Adaptive Strategy to Improve the Quality of Communication for IoT Edge Devices”. In: *The 6th IEEE World Forum on Internet of Things (WF-IoT 2020)*. New Orleans, Louisiana, USA, Apr. 2020. DOI: [10.1109/WF-IoT48130.2020.9221276](https://doi.org/10.1109/WF-IoT48130.2020.9221276).
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- [74] Bharath Sudharsan, John G Breslin, and Muhammad I Ali. “RCE-NN: A Five-Stage Pipeline to Execute Neural Networks (CNNs) on Resource-Constrained IoT Edge Devices”. In: *The 10th International Conference on the Internet of Things (ICIOT 2020)*. Malmö, Sweden, Oct. 2020. DOI: [10.1145/3410992.3411005](https://doi.org/10.1145/3410992.3411005).
- [75] Bharath Sudharsan, Dineshkumar Sundaram, John G Breslin, and Muhammad I Ali. “Avoid Touching Your Face: A Hand-to-Face 3D Motion Dataset (COVID-Away) and Trained Models for Smartwatches”. In: *The 1st Workshop on Internet of Things-Based Health Services and Applications (IOT-HSA 2020) at the 10th International Conference on the Internet of Things (IOT 2020)*. Malmö, Sweden, Oct. 2020. DOI: [10.1145/3423423.3423433](https://doi.org/10.1145/3423423.3423433).
- [76] Subhasis Thakur and John G Breslin. “A Model of Decentralized Social Internet of Things Using Blockchain Offline Channels”. In: *The 2nd International Conference on Blockchain Computing and Applications (IEEE BCCA 2020)*. Antalya, Turkey, Nov. 2020. DOI: [10.1109/BCCA50787.2020.9274459](https://doi.org/10.1109/BCCA50787.2020.9274459).
- [77] Subhasis Thakur and John G Breslin. “An Edge Colouring-Based Collaborative Routing Protocol for Blockchain Offline Channels”. In: *The 3rd IEEE International Conference on Blockchain (Blockchain 2020)*. Rhodes, Greece, Nov. 2020. DOI: [10.1109/Blockchain50366.2020.00050](https://doi.org/10.1109/Blockchain50366.2020.00050).
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- E. Demidova, S. Dietze, S. Gottschalk, J.G. Breslin, P. Cimiano, B. Ell, A. Lawrynowicz, L. Moss, A.-C. Ngonga Ngomo, Joint Proceedings of the 6th International Workshop on Dataset PROFILING and fEderated Search for Linked Data (PROFILES 2019) and the 1st Workshop on Semantic Explainability (SEMEX 2019) at the 18th International Semantic Web Conference (ISWC 2019), CEUR vol. 2465, ISSN 1613-0073, October 2019. <http://ceur-ws.org/Vol-2465>
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FUNDING

Funding as Budget Holder

Period	Funding agency	€ Own / NUI Galway total	Role	Title of research project / programme
2020-2021	HEA	€245,970	PI	MSc in AgInnovation / Springboard+
2020-2021	SFI	€220,000	Co-PI	Project Cailín (with Siobhán Kelleher) / SFI Future Innovator Prize
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+
2019-2025	SFI	€56,000 / €12M	Co-PI	Insight Centre for Data Analytics (€49,155,131) / Research Centre Phase 2
2019-2022	DBEI	€499,315	Co-PI	Cooperative Energy Trading System (with Subhasis Thakur) / Disruptive Technologies Innovation Fund
2019-2023	EC	€73,560	PI	Smart 4.0 / Marie Skłodowska-Curie Action COFUND
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+
2018-2024	SFI	€324,000	FI	VistaMilk Centre for Precision Pasture-Based Dairying / Research Centre
2018	SFI, IBM	€42,397	Co-PI	Blockchain and FinTech (with Subhasis Thakur) / Targeted Project
2018-2020	EC	€219,227	PI	STARTED (Coordinator of €953,501 Project) / EACEA Erasmus+ Programme Knowledge Alliances
2017-2018	HEA	€171,086	PI	Postgraduate Diploma in TechInnovation / Springboard+
2017-2018	IERC	€50,696	Co-PI	EnerPort P2P Energy Trading Using Blockchain (with Subhasis Thakur and Barry Hayes) / T2 Collaborative Research Programme (top-ranked proposal)
2017-2023	SFI	€1.4M	Co-PI	Confirm Centre for Smart Manufacturing / Research Centre
2014-2019	SFI	€785,806 / €12.3M	Co-PI	Insight Centre for Data Analytics (Linked Data Strand of €44,439,432 Project) / Research Centre
2015	IRC, AYLIEN	€96,000	PI	PhD on Neural Transfer Learning / Employment Based Postgraduate Programme
2015	IRC, AYLIEN	€48,000	PI	MApplSc on Streaming Sentiment Analysis / Employment Based Postgraduate Programme
2015	EI	€15,000	PI	Privacy Preference Framework / Commercial Case Feasibility Grant
2015	EI	€11,452	PI	Digital Age Narrative Trajectories / Coordinator Proposal Preparation Support
2014-2018	SFI, SAP	€175,000	Co-PI	PhD on Modelling in OSNs for Recommendation / Targeted Project
2014-2017	EC	€30,000 / €90k	Co-PI	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
2014-2015	EI	€12,000	PI	Protecting Privacy in the Social Web / Coordinator Proposal Preparation Support
2014	SFI	€87,349	PI	Social Media Repository of Ireland (with the Royal Irish Academy) / Technology Innovation Development Award

2013	IRC	€9,995	PI	researchers.ie Update / N/A
2013-2017	EC	N/A	Co-Proposer	KEYSTONE Semantic Keyword-Based Search on Structured Data Sources / COST Action
2013-2014	SFI	€200,000	FI	Insight Centre for Data Analytics (Semantic Web Strand of €44,439,432 Project) / Research Centre
2013-2014	EC	€291,925	PI	Eurapp Study on the EU App Economy (with Gigaom Research) / Startup Europe Study
2012	SFI	€23,700	PI	AAAI ICWSM-12 Support Grant / Conferences and Workshops Programme
2010	SFI	€6,501	PI	Visiting Researcher at the National Institute for Informatics in Tokyo / Short Term Travel Fellowship Grant
2010	IRC, ACE	€72,009	PI	PhD on Physical Activity and Social Networks / Enterprise Partnership Scheme
2009	IRC	€48,006	PI	MEngSc on Social Networks for Irish Researchers / Government of Ireland Postgraduate Scholarship
2008-2013	SFI	€822,000 / €15M	Co-PI	DERI Lón II (€14,889,398) / Centre for Science, Engineering and Technology
2008-2009	EI, TouristR	€197,184	PI	TripPlanr / Innovation Partnership
2008	EI	€4,132	PI	TouristR Background Research / Innovation Voucher

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

- 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 [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

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



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

Academic Collaborations

- “SWAN/SIOC” with Massachusetts General Hospital / Harvard Medical School
 - 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 the National University of Ireland 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. 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 article¹ and subsequent press release
- “researchers.ie” with the Irish Research Council

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

- Index of Irish-based researcher profiles, initially of students funded by IRCSET (later the Irish Research Council)
- 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

Current Supervisions

- Ihab Salawdeh, PhD, Data Science Institute, NUI Galway, 2016 – Present. Funder: Insight (Science Foundation Ireland)

Current Co-Supervisions as Primary Supervisor

- Jefkine Kafunah, PhD, Data Science Institute, NUI Galway, 2019 – Present. Co-Supervisors: Ali Intizar, Subhasis Thakur. Funder: Confirm (Science Foundation Ireland)
- Safina Showkat Ara, PhD, Data Science Institute, NUI Galway, 2015 – Present. Co-Supervisor: Subhasis Thakur. Funder: Insight (Science Foundation Ireland)

Current Co-Supervisions as Secondary Supervisor

- Anupa Shyamlal, PhD, Data Science Institute, NUI Galway, 2020 – Present. Co-Supervisor: Subhasis Thakur. Funder: VistaMilk (Science Foundation Ireland)
- Muhammad Yahya, PhD, Data Science Institute, NUI Galway, 2019 – Present. Co-Supervisor: Ali Intizar. Funder: Confirm (Science Foundation Ireland)
- Bharath Sudharsan, PhD, Data Science Institute, NUI Galway, 2019 – Present. Co-Supervisor: Ali Intizar. Funder: Confirm (Science Foundation Ireland)
- Abdul Wahid, PhD, Data Science Institute, NUI Galway, 2019 – Present. Co-Supervisor: Ali Intizar. Funder: Confirm (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. 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
- 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 and OpenIOT
- 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-Supervisors: 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. 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

- Chan Le Van, "Optimisation of a Linked Stream Processing Engine", MApplSc, 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
- 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

Current Postdoctoral Researchers/Research Associates

- Dr. Jeff Morgan
- Gabriel Mullarkey
- Dr. Kosala Yapa Bandara

Current Research Assistants

- Vignesh Kamath

Previous Postdoctoral Researchers

- Dr. Ronan Cummins
- Dr. Maciej Dabrowski
- Dr. Aidan Finn
- Dr. Conor Hayes
- Dr. Bahareh Heravi

- Dr. Alexandre Passant

Previous Research Assistants

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

Visiting Students and Professors

- 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

- Brendan Allen
- Prof. W. Bernard Carlson
- Dr. Samir Vinchurkar

Previous TechInnovate Lecturers

- Dr. Paul Flynn

Previous TechInnovate Fellows

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

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

- 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

- 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.
- Laleh Kazemzadeh, “Identification of Regional Interaction Patterns in Regulatory Networks”, PhD, 2017. Supervisor: Frank Barry. Examiners: Michael Schröder, Mary Murphy.
- Mihael Arcan, “Multilingual Enhancement of Domain-Specific Knowledge”, PhD, 2016. Supervisor: Paul Buitelaar. Examiners: Josef van Genabith, Dietrich Rebholz-Schuhmann.
- Andre Freitas, “Schema-Agnostic Queries for Large-Schema Databases: A Distributional Semantics Approach”, PhD, 2014. Supervisor: Edward Curry. Examiners: Christopher Brewster, Paul Buitelaar.
- Sanaullah Nazir, “Data Availability Analysis in P2P Networks”, PhD, 2012. Supervisor: Manfred Hauswirth. Examiners: Anwitaman Datta, Siegfried Handschuh.
- 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.
- Peyman Nasirifard, “Advances in Understanding, Mining and Using People Tags”, PhD, 2012. Supervisor: Conor Hayes. Examiners: Robert Engels, Stefan Decker.
- 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: Kevin Farrell, Seyedroohollah Hosseini, Jaroslaw Jakubowicz, Asma Khatoon, Fearghal Kineavy, Tudor Nedelcu, David Newell, Mostafa Rezaeimozafar, Shejin Thavalengal, Terry 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 Mehmood, 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



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.

- “Old Ireland in Colour”, Trasna na Tíre, 7th December 2020. <https://www.trasnatanire.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-37987077>
- “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/europreneurs>
 - 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-pre-2009>
- “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-or>
- “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>
- “Blogs and Podcasting”, Invited Talk to Masters in E-Marketing Students, DCU, Dublin, Ireland, 13th March 2006. <https://www.slideshare.net/Cloud/blogs-and-podcasting-378607>
- “Syndication and RSS”, Invited Talk at the Blogging for Business Event, IT@Cork, June 2005. <https://www.slideshare.net/Cloud/syndication-and-rss>
- “Site Interoperability Projects”, Invited Talk at the Workshop on Semantic Interoperability, Knowledge Media Institute, Open University, February 2005. <https://www.slideshare.net/Cloud/site-interoperability>
- “Transformer Design”, Invited Talk at Wroclaw University of Technology, Poland, 2001.

Tutorials

- John G. Breslin, “What Can You Do for Your Customer?”, Tutorial for the BonBillo Social Impact Incubator, Online, 5th November 2018.
- John G. Breslin, “Disciplined Entrepreneurship”, Tutorial at Blackstone LaunchPad, NUI Galway, 6th March 2018.
- John G. Breslin, “Disciplined Entrepreneurship”, Tutorials at the PorterShed, Galway, 27th and 28th July 2017.
- John G. Breslin, “Disciplined Entrepreneurship”, Tutorials at Blackstone LaunchPad, NUI Galway, 15th and 22nd March 2017.
- John G. Breslin, Paul Flynn, “Disciplined Entrepreneurship for AgTech Startups”, Tutorial to Plant & AgriBiosciences Research Centre, NUI Galway, 23 November 2016.
- John G. Breslin, Alexandre Passant, “The Social Semantic Web”, Tutorial at the Universitat Rovira i Virgili Artificial Intelligence Seminar Series, Tarragona, Spain, April 2011.
- John G. Breslin, Alexandre Passant, “The Social Semantic Web”, Tutorial at the 4th International AAAI Conference on Weblogs and Social Media (ICWSM-10), Washington DC, USA, May 2010. <https://www.slideshare.net/Cloud/the-social-semantic-web>
- John G. Breslin, Alexandre Passant, “The Social Semantic Web: An Introduction”, Tutorial at DERI, NUI Galway, 2nd April 2009. <https://www.slideshare.net/Cloud/the-social-semantic-web-an-introduction>
- John G. Breslin, Stefan Decker, Uldis Bojārs, “The Future of Social Networks: The Need for Semantics”, Tutorial at the Semantic Technologies Conference, San Jose, USA, May 2008. <https://www.slideshare.net/Cloud/the-future-of-social-networks-on-the-internet-the-need-for-semantics>
- Uldis Bojārs, John G. Breslin, Alexandre Passant, “Interlinking Online Communities and Enriching Social Software with the Semantic Web”, Tutorial at the 17th International World Wide Web Conference (WWW 2008), Beijing, China, 21st April 2008. <https://www.slideshare.net/Cloud/interlinking-online-communities-and-enriching-social-software-with-the-semantic-web>
- John G. Breslin, “Semantic Web 2.0”, Tutorial for Wireless Skillnet, Dublin, Ireland, May 2007.
- John G. Breslin, Stefan Decker, “Semantic Web 2.0: Creating Social Semantic Information Spaces”, Tutorial at the 15th International World Wide Web Conference (WWW 2006), Edinburgh, Scotland, May 2006. <https://www.slideshare.net/Cloud/semantic-web-20-creating-social-semantic-information-spaces>
- John G. Breslin, Maeve Duffy, W. Gerard Hurley, “High-Frequency Effects in Transformers and CAD Design”, Tutorials in Magnetics Design run by PEI Technologies, 1996, 2000 and 2001.

Panels

- John G. Breslin, Nata Duvvury, Adrienne Gorman, John McHale, Niall Madden, Grace McCormack, “Academic Promotions Advisory Session”, University Women’s Network, NUI Galway, 21st January 2020.
- John G. Breslin, Ken Bruton (CIT), Bill O’Leary (Chair, Confirm SFI Research Centre), Andrew Parnell (Maynooth University), Roger Richardson (Corlina), “Digital Solutions in Manufacturing: Innovations and Value from Industry and Research Perspectives”, Industrial Internet Consortium Smart Manufacturing Forum, CIT, 23rd May 2019.
- Paul Bohan (Schneider Electric), John G. Breslin, David Cunningham (Galway City Innovation District), Derarca Dennis (Chair, EY), Brian O’Callaghan (Alere), “Does the Future of Finance Mean New Technology or New People?”, EY Future of Finance, Meyrick Hotel, Galway, 27th March 2019.
- Alejtin Berisha (Universum College, Kosovo), John G. Breslin, Emilio Corchado (Startup Olé Accelerator), Agnieszka Pugacewicz (University of Warsaw, Poland), “Transforming Universities into Entrepreneurship Engines”, Workshop at the Startup Europe Summit, Sofia, Bulgaria, 15th November 2018.
- John G. Breslin (Chair), David Cunningham (Priviti), Carmel McGroarty-Mitchell (CÚRAM Centre for Research in Medical Devices), Jan Rutherford (University of Colorado Denver), “Leading by Innovating”, InterTradeIreland All-Island Innovation Programme, The PorterShed, Galway, 28th May 2018.
- John G. Breslin, Siobhán Bradley (Chair, IPA), Gerard Brady (Ibec), Brendan McCormack (President, IT Sligo), “Accelerating Growth”, Northern & Western Region Masterclass in Collaborative Leadership, The Glasshouse Hotel, Sligo, 25th May 2018.
- John G. Breslin (Chair), Barry O’Sullivan (CEO, Altocloud), Joe Smyth (VP, Genesys), “Building an AI Company from Scratch - The Altocloud Story”, Atlantec Conference ’18, NUI Galway, Ireland, 24th May 2018.
- John G. Breslin, D. Carey (Chair, Moore Institute, NUI Galway), H. Felzmann (Philosophy, NUI Galway), K. Lillington (Irish Times), N. Tosh (Philosophy, NUI Galway), “Data Protection: Where Do We Stand?”, Moore Institute, NUI Galway, 9th April 2018.
- John G. Breslin (Chair), P. Flynn (TechInnovate/AgInnovate), M. Mellotte (Insight), N. Walsh (Blackstone LaunchPad), “From Idea/Invention/Innovation to Customer”, Startup Europe Comes to Universities (SEC2U), Institute for Lifecourse & Society, NUI Galway, 24th October 2017.
- John G. Breslin, P. Anglim (BioInnovate Ireland), E. Browne (Free Feet Medical), D. Clarke (Hatchery of Ideas), A. Rialp (Chair, Autonomous University of Barcelona), B. Woods (OCREX), “Commercialisation of Innovation for Internationalisation: Product Before Market?”, Industry Forum at the 21st McGill International Entrepreneurship Conference, The PorterShed, Galway, 30th August 2017.
- John G. Breslin (Chair), Samantha Barry (CNN), Montaser Marai (Al Jazeera), Anne-Marie Tomchak (Mashable), “Mobile Journalism in a Post-Truth World”, Mojocon Fringe Event, NUI Galway, 4th May 2017.
- John G. Breslin, L. Bowen (Entrepreneurs Academy), G. Carty (Fuzion Communications), G. Duffy (Chair, Gavin Duffy & Associates), S. Martin (MamaBud), P. O’Connell (Paddy O’s Cereals), M. O’Dwyer (SwiftComply), “Looking Forward: SMEs, Startups and Entrepreneurship”, AHECS Labour Market Task Group, National College of Ireland, 27th April 2017.
- John G. Breslin, Maurice O’Gorman (Galway Chamber), Frank O’Keeffe (EY), Jamie Williams (Chair, EY), “Is the Future of Finance New Technology or New People?”, EY Preparing for the Future Finance Function, Meyrick Hotel, Galway, 5th April 2017.
- John G. Breslin, J. O’Dea (Crospon), P. O’Doherty (CEO, Electric Ireland), S. Ryan (Chair, Irish Independent), S. Roarty (N17 Brewery), “Innovation in Practice”, IBEC Innovation Imperative, Galway, 26th May 2016.
- John G. Breslin, P. Formica (Innovation Value Institute, NUI Maynooth), A. Jazairy (World Intellectual Property Organization), J. Roos (Future Ideas), B. Samelin (Chair, European Commission), D. van Welsum (The Conference Board), “Innovation and Entrepreneurship”, Open Innovation 2.0 Conference, Dublin Convention Centre, Dublin, 12th June 2014.

- John G. Breslin, A. Gerber (innocomm), M. Hynes (Chair, European Science Foundation), M. Marchiori (REIsearch), D. Piechocki (Orange Labs), “Digital and Social Media: New Ways of Engaging Citizens in Research and Innovation”, European Intersectoral Summit on Research and Innovation, Trinity College Dublin, Ireland, 26th February 2013.
- John G. Breslin, C. Coughlan (HP), J. Ryan (Great Place to Work Ireland), M. Sugrue (Kinesense), “Where Are the Growth Opportunities for Ireland?”, Irish Executives Summit, Radisson SAS, Galway, 27th September 2012.
- John G. Breslin, N. Devitt (Tweak Your Biz), F. Hannigan (Pathfinder Partners International), Z. Sheerin (Mint Digital), J. Twohig (Ahain Group), “Social Media Panel”, Irish Executives Summit, Radisson SAS, Galway, 15th September 2011.
- John G. Breslin, D. Collins (Jolt Online Gaming), K. Majerus (Cisco), D. McLoughlin (Chair, UCD), D. Mulley (Mulley Communications), “Digitising Your Business Model and Exploiting New Technologies”, Digital Landscapes, University College Dublin, 3rd March 2010.
- John G. Breslin, N. Infield (British Library), I. Manzie (Thomson Reuters), D. Meehan (Chair, Dublin City University), “Survival, Evolution or Extinction: Shaping Our Futures”, British Business Schools Librarians Group, Dublin, 2nd July 2009.
- John G. Breslin, E. Carey (Chair, Random Thoughts Media), C. Dillon (Microsoft), W. Luenenburger-Reidenbach (Edelman), B. O’Connor (PricewaterhouseCoopers), “What is Social Media”, Futureproof Conference, Dublin, 18th June 2009.
- John G. Breslin, J. Browne (Chair, NUI Galway), O. Daniels (Nortel), A. Devitt (Forfás), B. O’Leary (IDA), F. Ó Móráin (Enterprise Ireland), “Research and Development: Building the Knowledge Economy”, Engineers Ireland Annual Conference, Tullamore, 23rd April 2009.
- John G. Breslin, J. Collison (Auctomatic, now Stripe), A. Finn (Chair, DERI), N. Larkin (Relevant M), A. McDermott (LogOn.ie), T. Raftery (Tom Raftery IT), “Send Lawyers, Guns and Money, Dad: Issues Faced by Irish Technology Startups”, BarCamp Galway, DERI, NUI Galway, 22nd September 2007.
- John G. Breslin, B. Brown (Moli), J. Collins (Chair, Irish Times), J. Drumgoole (PutPlace), P. Lynch (Eirplay Games), J. McCormick (Xbox Live Gaming Centre), M. Taylor (eircom), “Social Networking in Games”, GAME :ON Cyber Games Festival, Digital Hub, Dublin, 10th September 2007.
- John G. Breslin, J. Cunningham (Chair, NUI Galway), R. Fox (DERI), M. Leyden (DERI), B. McDaniel (DERI), B. Smith (DERI), “Founders Forum”, DERI Entrepreneurial Forum, NUI Galway, 22nd June 2007.
- John G. Breslin, S. Decker (DERI), M. Grandinetti (Chair, MIT Sloan School of Management), A. Teodorescu (IBM Venture Capital Group), D. Wyatt (McAfee SiteAdvisor), “Information Technology Panel”, The 7th Annual MIT Technology and Entrepreneurship Forum, MIT, Cambridge, USA, 2nd March 2007.

Conference Talks

- “The PorterShed Story”, Ascent: The Rise of Galway City’s Innovation District, Meyrick Hotel, Galway, 16th May 2019.
- “A Balanced Routing Algorithm for Blockchain Offline Channels using Flocking”, The 1st International Congress on Blockchain and Applications (BLOCKCHAIN ’19), Avila, Spain, June 2019.
- “Collusion Attack from Hubs in the Blockchain Offline Channel Network”, The 1st International Conference on Mathematical Research for Blockchain Economy (MARBLE 2019), Fira, Santorini, Greece, 9th May 2019. <https://www.slideshare.net/Cloud/collusion-attack-from-hubs-in-the-blockchain-offline-channel-network>
- ““I Like” - Analysing Interactions within Social Networks to Assert the Trustworthiness of Users, Sources and Content”, The 5th IEEE International Conference on Social Computing (SocialCom 2013), Washington, DC, USA, September 2013.

MEDIA COVERAGE

- “Old Ireland in Colour by John Breslin to top bestseller charts in photo finish”, Eithne Shortall, Sunday Times, 20th December 2020. <https://www.thetimes.co.uk.edition/ireland/old-ireland-in-colour-by-john-breslin-to-top-bestseller-charts>
- “Irish women of the 20th century – in glorious colour”, Irish Times, 19th December 2020.
- “We like our history in glorious technicolour”, Valerie Hanley, Irish Mail on Sunday, 13th December 2020.
- “It’s a huge thing for a writer”: Donal Ryan and Keelin Shanley among Irish Book Awards winners”, Aoife Barry, TheJournal.ie, 25th November 2020. <https://www.thejournal.ie/irish-book-awards-winners-2020-5278373-Nov2020/>
- “Old Ireland in Colour”, Ryan Tubridy, The Late Late Show, RTÉ One, 20th November 2020. <https://www.rte.ie/player/movie/old-ireland-in-colour/164166184269?clipguid=PI000016285>
- “These stunning colourised photos give a new look at Ireland’s past”, Aoife Barry, TheJournal.ie, 11th November 2020. <https://www.thejournal.ie/old-ireland-in-colour-book-interview-5262943-Nov2020/>
- “A most beautiful book”, Galway Talks with Keith Finnegan, Galway Bay FM, 11th November 2020.
- “Many photographs restored to great colour”, Around the North West with John Breslin, Highland Radio, 10th November 2020.
- “Phenomenal Old Ireland in Colour book tells the story of Irish history like never before”, Shane O’Brien, Irish Central, 9th November 2020. <https://www.irishcentral.com/roots/history/old-ireland-in-colour-book-irish-history>
- “Our colourful past takes on a very different hue”, Alan Preston, Belfast Telegraph, 7th November 2020. <https://www.belfasttelegraph.co.uk/news/northern-ireland/new-book-old-ireland-in-colour-uses-modern-technology-to-give-old-photos-colour-1.4000000>
- “Bringing old photos to life... in full colour”, Maeve Lee, Echo Live, 6th November 2020. <https://www.echolive.ie/corklives/Bringing-old-photos-to-life-in-full-colour-9805b8f0-9578-4774-b2e9-020a2188883a-ds>
- “Forty shades of sepia: Historian brings black and white photos of Ireland back to life in stunning new book”, Aoife Bannon, The Irish Sun, 2nd November 2020. <https://www.thesun.ie/news/6095133/ireland-black-and-white-photos-colourised/>
- “Why we turned Ireland’s black and white past into colour”, RTÉ Brainstorm, 30th October 2020. <https://www.rte.ie/brainstorm/2020/1030/1174842-old-ireland-in-colour/>
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- “‘Connection to our past’ - how an Irish account that brought colour to history has gained a cult online following”, Chrissie Russell, Sunday Independent, 18th October 2020. <https://www.independent.ie/life/connection-to-our-past-how-an-irish-account-3711111.html>
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PRIZES AND DISTINCTIONS

- 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 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

External Examiner

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

Academic and Research Boards and Committees

- 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

- Associate Editor, 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

- 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 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)

TEACHING EXPERIENCE

Over my years of teaching, I have granted 19,449 ECTS, i.e. (ECTS × students) totalled over all time. I have an ECTS turnover of over 2,000 ECTS, i.e. (ECTS × students) per year on average in recent years. In my modules, I have taught 5,380 students. In total, I have taught 3,241 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

- EE450 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 Electronic Engineering (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)

ACADEMIC CONTRIBUTIONS AND COMMUNITY LEADERSHIP

Discipline / Unit

- Programme Director for TechInnovate [2016 – Present]
 - Having been selected for the competitive Entrepreneurship Development Program² 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 participants on the MSc in AgInnovation in 2019
 - Received Springboard+ funding for 30 participants on the MSc in AgInnovation in 2018
 - 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

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

- 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]

School / College

- Co-Principal Investigator at the Confirm SFI Research Centre for Smart Manufacturing [2019 – Present]
 - Member of the Confirm Strategy Core Team
- 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 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

- 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 student projects from School of Business ICE module, the BIS course, Cumarsáide in Acadamh na hOllscoilefóchta Gaeilge, the MSc in Enterprise Systems, the BSc IT course, the AUA HDip in Technology Commercialisation, and the HDip in Software Design [2008 – Present]

Professional / Industry / Wider Society

- Host of the VistaMilk Blockchain Masterclass [2020]
- Tenure Review for Associate Professor, College of Staten Island, City University of New York [2020]
- 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
- Member of the Steering Group for Scale Ireland (formerly the Startup Policy Project) [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 (nearly 200 items) [2008 – Present]
 - Quoted by various other media sources on my research topics including the 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 and the Washington Post

PROFESSIONAL MEMBERSHIPS

Member, Engineers Ireland	[2008 – Present]
Senior Member, The Institute of Electrical and Electronics Engineers (IEEE)	[1994 – Present]
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

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 – Present]
 - 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 Aristotele, and by research in companies such as HP

Company Board and Advisory Roles

- Member of the Board of Directors, WestBIC [2014 – Present]
 - Chair [2019 – Present]
 - Vice-Chair [2019]
 - WestBIC provides advice and services for entrepreneurs planning or starting a new business in the West of Ireland
- Advisor to various emerging technology companies
 - AISLER (DE): seamlessly integrates the electrical engineering process into a company-wide collaboration platform [2014 – Present]
 - AYLIEN (IE, US): a text analytics framework powered by semantic technologies, and funded by SOSV (Sean O’Sullivan, Bill Liao) and Atlantic Bridge Ventures [2014 – Present]
 - BuilderEngine (IE): a next-generation HTML5 web builder and CMS [2013 – 2019]
 - CrowdGather (US): a discussion forum network [2011 – Present]
 - 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 – Present]
 - BirdLeaf (IE): aggregate demographic analyses of customer prospects simply based on a list of email addresses [2013 – 2016]
- 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]

REFERENCES

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.”