

Gianluca DEMARTINI

School of ITEE
University of Queensland
GP South building, Staff House Road, 4072 St Lucia, Australia.

E-mail: g.demartini@uq.edu.au
<http://www.gianlucademartini.net>

Academic Employment **School of IT and Electrical Engineering**, University of Queensland, Australia.
Senior Lecturer in Data Science.
Aug 2017 –

Information School, University of Sheffield, UK.
Senior Lecturer in Data Science.
Nov 2015 – Jun 2017.

Information School, University of Sheffield, UK.
Lecturer (Assistant Professor) in Data Science.
Aug 2014 – Oct 2015.

eXascale Infolab, University of Fribourg, Switzerland.
Post-doctoral researcher.
May 2011 – July 2014.

L3S Research Center, University of Hannover, Germany.
Junior Researcher.
Mar 2006 – Apr 2011.

Internships and Visits AMPLab, **UC Berkeley**, CA, USA. Summer 2012.
With Michael J. Franklin, Tim Kraska, Beth Trushkowsky on crowdsourced query understanding.

Yahoo! Research, Barcelona, Spain. Summer 2009.
With Hugo Zaragoza and Roi Blanco on Time-aware Entity Ranking in news articles.

Academic Education Leibniz University of Hannover, Germany.
Ph.D. in Computer Science (Dr. rer. nat.)
Supervisors: Wolfgang Nejdl, Arjen P. de Vries.
Title: “From People to Entities: Typed Search in the Enterprise and the Web”.
Apr 2006 - Apr 2011.
Summer Schools: “Multimedia Semantics” (2006), “Advanced Retrieval and Web Mining” (2007)

University of Sheffield, UK.
PG Certificate in Learning and Teaching, School of Education, Mar 2016.
Fellow of the Higher Education Academy (FHEA), UK.

University of Udine, Italy.
M.Sc. (*cum laude*) in Computer Science
Supervisor: Stefano Mizzaro.
Dec 2003 - Dec 2005.
Summer School participation: “Information Retrieval” (2005).

University of Udine, Italy.
B.Sc. in Computer Science
Supervisor: Alberto Policriti.
Oct 2000 - Dec 2003.

Research Interests Crowdsourcing for Human Computation, Information Retrieval, Semantic Web.

Awards

- Italian National Scientific Habilitation (Abilitazione Scientifica Nazionale) to Full Professor with validity 2018-2024 in sectors 09/H1 (Computer Engineering) and 01/B1 (Computer Science).
- **Best Paper Award** at the HCOMP 2018 conference. Top 1%.
- Ranked in top **7% of EPSRC College members** for participating in peer review activities during the academic year 2016/17.
- Italian National Scientific Habilitation (Abilitazione Scientifica Nazionale) to Associate Professor with validity 2017-2023 in sectors 09/H1 (Computer Engineering) and 01/B1 (Computer Science).
- **Best Paper Award** at the ECIR 2016 conference. **Top 0.5%**.
- Outstanding Early Career **Research Achievement Award**, U. Sheffield Faculty of Social Sciences, 2015.
- Selected for the “**Future Academic Leaders Programme**” at the University of Sheffield, 2015.
- Nominated for a University of Sheffield Faculty Learning and Teaching Award, 2015.
- Nominated for **Best Research Paper** award at the ISWC 2013 conference. **Top 2%**.
- Third place at the “**Semantic Web Challenge 2013**” with “B-hist: Entity-Centric Search over Personal Web Browsing History”. Top 18%.
- Selected for the 1st **Heidelberg Laureate Forum**, 2013. 10% acceptance rate.
- “Crowdsourcing for Multimedia Ideas Competition” award at **CrowdMM** 2013.
- **Best Demo** Award at the ISWC 2011 conference. **Top 1%**.
- 2nd **most Outrageous Idea** Award at the ISWC 2011 conference. **Top 8%**.
- **PhD dissertation award** – “Diploma Thesis Award 2011”, Semiramis Research and Service Unit.
- 3rd Best Paper Award at the LA-WEB 2009 conference.
- Selected for the **IBM EMEA Best Student Recognition Event** 2006.
- World Finalist (representing Italy) at **Microsoft** Imagine Cup 2005 Software Eng competition.
- Finalist at the Italian **Microsoft** Imagine Cup 2004, 2005, 2006, 2007.

Leadership Roles

- **EU Project coordinator** of H2020-FashionBrain (2017-2019), leading a research team spread across 6 organizations from UK, DE, CH, NL.
- Co-Chair of the “Crowdsourcing and Human Computation for the Web” track at the Web Conference (**WWW**), 2018.
- Semantic Web Challenges co-Chair at ISWC 2019.
- **External Adviser for Data Science** MSc and BSc programs at the University of Chichester, UK, 2017.
- Program Coordinator for “B. Computer Science” 2018-now, U. Queensland.
- Program Coordinator for “**MSc Data Science**” 2016-2017, U. Sheffield.
- Deputy program coordinator for “**MSc Data Science**” 2014-2016, U. Sheffield.
- **Strategy group** member 2015-2017, Information School, U. Sheffield.
- Ethics application reviewer, Information School, 2014-2017, U. Sheffield.

Research Themes

- **Entity-Centric Information Access:** Improving search engines and Web browsing using entities.
- **Hybrid Human-Machine Data Analysis:** Improving machine-based data analysis systems leveraging human computation at scale.
- **Next Generation Crowdsourcing Platforms:** More efficient and effective crowdsourcing platforms.

Selected Publications

Crowdsourcing Platforms and Hybrid Human-Machine Systems for Data Analysis

Kevin Roitero, Eddy Maddalena, Gianluca Demartini, and Stefano Mizzaro. On Fine-Grained Relevance Scales. In: 41st Annual ACM SIGIR Conference (**SIGIR 2018**), Ann Harbor, Michigan, USA, July 2018. (Acceptance rate: 21%).

Djellel Eddine Difallah, Michele Catasta, Gianluca Demartini, Panagiotis G. Ipeirotis, and Philippe Cudré-Mauroux. The Dynamics of Micro-Task Crowdsourcing -- The Case of Amazon MTurk. In: 24th

International Conference on World Wide Web (**WWW 2015**), Research Track. Firenze, Italy, May 2015. (Acceptance rate: 14.1%)

Ujwal Gadiraju, Ricardo Kawase, Stefan Dietze, and Gianluca Demartini. Understanding Malicious Behaviour in Crowdsourcing Platforms: The Case of Online Surveys. In: Proceedings of the ACM Special Interest Group on Computer Human Interaction (**CHI 2015**). Seoul, South Korea, April 2015. (Acceptance rate: 23%).

Djellel Eddine Difallah, Gianluca Demartini, and Philippe Cudré-Mauroux. Pick-A-Crowd: Tell Me What You Like, and I'll Tell You What to Do. In: 22nd International Conference on World Wide Web (**WWW 2013**), Rio de Janeiro, Brazil, May 2013. (Acceptance rate: 15%).

Gianluca Demartini, Djellel Eddine Difallah, and Philippe Cudré-Mauroux. Large-Scale Linked Data Integration Using Probabilistic Reasoning and Crowdsourcing. In: **VLDB Journal**, Special issue on Structured, Social and Crowd-sourced Data on the Web. August 2013. (Journal impact factor at publication time: 1.395)

Gianluca Demartini, Djellel Eddine Difallah, and Philippe Cudré-Mauroux. ZenCrowd: Leveraging Probabilistic Reasoning and Crowdsourcing Techniques for Large-Scale Entity Linking. In: the 21st International Conference on World Wide Web (**WWW 2012**), Lyon, France, April 2012. (Acceptance rate: 12%).

Entity-Centric Information Access

Alberto Tonon, Michele Catasta, Roman Prokofyev, Gianluca Demartini, Karl Aberer, and Philippe Cudré-Mauroux. Contextualized Ranking of Entity Types based on Knowledge Graphs. In: **Journal of Web Semantics**, Elsevier. 2016. (Journal impact factor at publication time: 2.550).

Roman Prokofyev, Gianluca Demartini, and Philippe Cudré-Mauroux. Effective Named Entity Recognition for Idiosyncratic Web Collections. In: 23rd International Conference on World Wide Web (**WWW 2014**). Seoul, South Korea, April 2014. (Acceptance rate: 12.9%).

Alberto Tonon, Michele Catasta, Gianluca Demartini, Philippe Cudré-Mauroux, and Karl Aberer. TRank: Ranking Entity Types Using the Web of Data. In: The 12th International Semantic Web Conference (**ISWC 2013**), Sydney, Australia, October 2013. (Acceptance rate: 21.5%). Nominated for the Best Research Paper Award. (**Top 2%**).

Alberto Tonon, Gianluca Demartini, and Philippe Cudré-Mauroux. Combining Inverted Indices and Structured Search for Ad-hoc Object Retrieval. In: 35th Annual ACM SIGIR Conference (**SIGIR 2012**), Portland, Oregon, USA, August 2012. (Acceptance rate: 20%).

Research Funding

External Research Grants

- EU **H2020-ICT-14-2016 (PI, 2.9M EUR total cost**, 1.7M EUR EC Contribution, 0.42M EUR U Sheffield share) call "Big Data PPP: cross-sectorial and cross-lingual data integration and experimentation", project "FashionBrain: Understanding Europe's Fashion Data Universe", 6 partners, 2017-2019.
- UK **EPSRC First Grant (PI, 120'000 GBP total cost**, 100'000 GBP EPSRC Contribution), project "BetterCrowd: Human Computation for Big Data", individual grant, 2016-2017.
- UK **AHRC Collaborative Doctoral Partnership (Co-I, 70'000 GBP)** "Investigating entity-centric methods for information exploration and discovery in big digital archives", 2015-2018.
- **Amazon AWS in Education Grants (PI, 2'500 USD)**, 2015.

Internal Research Grants

- U Queensland, School of ITEE (PI, 30K AUD), "Virtual reality devices for the Data Science Human Computation Laboratory", 2018.

- U Queensland, Faculty new staff start-up grant (PI, 50K AUD), “Understanding the Dynamics of a Crowdsourced Knowledge Graph”, 2017.
- U Sheffield iSchool Internal Seed Grant (PI, 700 GBP) “OpenTurk: A Task Recommender System for Crowd Workers”, 2016.
- U Sheffield iSchool Internal Seed Grant (Co-I, 1971 GBP) “Cultures of Data Science Practice”, 2016.
- Sheffield Methods Institute Fund (PI, 720 GBP) “Crowdsourcing Social Science Data Analysis”, 2015.
- U Sheffield iSchool Internal Seed Grant (PI, 2’300 GBP) “Crowdsourcing for Big Data”, 2015.

External Travel Grants

- ESF ELIAS Scientific meeting (**PI**, 7’500 EUR) Dagstuhl meeting titled “Crowdsourcing Research - Transcending Disciplinary Boundaries”, 2016.
- ESF ELIAS STSM Travel grant for a research visit at U Udine, Italy, 2015.
- MUMIA STSM Travel grant for a research visit at CWI, Amsterdam, The Netherlands, 2013.
- International Short Visits grant from the Swiss National Science Foundation (SNSF), 2012.
- ACM Student Travel grant to attend SIGIR 2010.

Community activities

Journal Editorial Board

- **Co-Editor in Chief** for the Human Computation Journal, 2018-now.
- **Area Editor** for the Journal of **Web Semantics**, Elsevier, 2016-now.
- Editorial Board Member for the **Information Retrieval Journal**, Springer, 2017-now.
- Editorial Board Member for the Journal of **Web Semantics**, Elsevier, 2015-2016.
- Special Issue on eDemocracy & eGovernment (SIEDEG) of the IEEE Transactions on Emerging Topics in Computing, 2016-2017.

Senior Program Committee Member

- Co-Chair of the “Crowdsourcing and Human Computation for the Web” track at the Web Conference (**WWW**), 2018.
- AAAI Conference on Human Computation and Crowdsourcing (**HCOMP**), 2016.
- International Conference on Web Engineering (**ICWE**), 2016-2017.
- ACM International Conference on Information and Knowledge Management (**CIKM**), 2015-2018.

Program Committee Member

- Conference on Fairness, Accountability, and Transparency (FAT*), 2019.
- Australasian Database Conference (ADC), 2019.
- International Workshop on Intelligent User Interfaces for Algorithmic Transparency in Emerging Technologies at ACM IUI, 2019.
- The IEEE International Conference on Data Mining (**ICDM**), 2018.
- International Conference on Database Systems for Advanced Applications (DASFAA), 2018.
- Social Informatics conference (SocInfo), 2018.
- ACM International Web Search and Data Mining (WSDM) Conference, Demo track, 2018.
- ACM International Web Search and Data Mining (WSDM) Conference, Doctoral Consortium, 2018.
- AAAI Conference on Human Computation and Crowdsourcing (**HCOMP**), 2018-2019.
- Research track of the International Semantic Web Conference (**ISWC**), 2012, 2017.
- Crowdsourcing research track at the World Wide Web Conference (**WWW**), 2017-2019.
- ACM International Conf. on Research and Development in Information Retrieval (**SIGIR**), 2012-2019.
- ACM SIGKDD Conference on Knowledge Discovery and Data Mining (**KDD**), 2017-2018.
- Australasian Document Computing Symposium (ADCS), 2017-2018.
- Poster track at the World Wide Web Conference (WWW), 2017-2018.
- International ACM Web Science Conference (**WebSci**), Poster Track, 2017, 2019.
- iConference, 2017-2018.
- Workshop on Crowdsourcing and Multiagent Systems at the International Conference on Autonomous Agent and Multiagent Systems (ICAAMAS), 2017.
- Workshop on Data Science for Intelligent Decision Support (DS4IDS) at the 5th International Conference on Future Internet of Things and Cloud (FiCloud), 2017.

- Workshop on Knowledge Graphs and Semantics for Text Retrieval and Analysis (KG4IR) at SIGIR 2017.
- International Joint Conference on Artificial Intelligence (**IJCAI**), 2013, 2016, 2019.
- The International AAAI Conference on Weblogs and Social Media (**ICWSM**) 2014, 2017-2018.
- Content Analysis track at the World Wide Web Conference (**WWW**), 2016.
- Doctoral Consortium at the International Semantic Web Conference (**ISWC**), 2016-2018.
- Resources Track at the International Semantic Web Conference (**ISWC**), 2016.
- Special Session on Collective Intelligence, Crowd Sourcing, and Collaboration (CICS) at the International Conference on Collaboration Technologies and Systems (CTS), 2016.
- Russian Summer School in Information Retrieval (RussIR), 2016.
- Conference on Artificial Intelligence and Natural Language (AINL), 2016-2017.
- IEEE Conference on Business Informatics (CBI), 2016.
- Italian Conference on Computational Linguistics (CLIC-IT), 2016.
- International Workshop on Benchmarks for Ubiquitous Crowdsourcing: Metrics, Methodologies, and Datasets (Crowdbench) at IEEE PERCCOM 2016.
- Workshop on Data Science for Intelligent Decision Support (DS4IDS) at the International Conference on Computational Science and Applications (ICCSA), 2016.
- Workshop on LINKed Education at ISWC, 2015.
- Empirical Studies and Experiments track of the International Semantic Web Conference (**ISWC**), 2015.
- Workshop on Exploiting Semantic Annotations in Information Retrieval (ESAIR) at CIKM, 2015-2016.
- ACM SIGIR International Conference on the Theory of Information Retrieval (**ICTIR**), 2015-2017.
- International Symposium on String Processing and Information Retrieval (**SPIRE**), 2015.
- Symposium on Data-Driven Process Discovery and Analysis (SIMPDA), 2015.
- International Conference on Knowledge Discovery and Information Retrieval (KDIR), 2015.
- International Workshop on the Theory and Practice of Social Machines (SOCM) at WWW, 2015-2016.
- Social Web Applications track at the International Conference on Web Engineering (**ICWE**) 2015.
- Social networks and graph analysis track at the World Wide Web Conference (**WWW**), 2013-2014.
- Replication, Benchmark and Data Track of the International Semantic Web Conference (**ISWC**), 2014.
- Extended Semantic Web Conference (**ESWC**), 2013-2016, 2018-2019.
- ACM International Conference on Information and Knowledge Management (**CIKM**), 2011, 2014.
- International Workshop on Social Media in Crowdsourcing and Human Computation at SocInfo, 2014.
- International Conference on Advances in Semantic Processing (SEMAPRO), 2014-2016.
- “Crowdsourcing” Session at the Int. Conf. on Communications and Electronics (ICCE), 2014-2015.
- “Computational Science and Computational Intelligence” Session at the Int. Conf. on Advanced Technologies for Communications (ATC), 2014.
- CIKM 2012 City Data Management 2012 Workshop.
- SIGIR 2012 1st Joint International Workshop on Entity-oriented and Semantic Search, 2012.
- SIGIR Workshop on Time-aware Information Access (TAIA), 2012-2015.
- Artificial Intelligence meets the Web of Data Workshop at ECAI 2012 and ESWC 2013.
- International Workshop on Learning and Education with the Web of Data at WWW (LILE), 2012-2016.
- European Conference on Information Retrieval (**ECIR**), 2012-2014.
- First International Workshop on Entity-Oriented Search (EOS) at SIGIR, 2011.
- Posters and Demonstrations Track of the 9th Intern. Semantic Web Conference (ISWC), 2010.
- Personal Information Management (PIM) Workshop 2009, 2012.

Organizer

- Co-organizer of the ‘CrowdBias: Disentangling the Relation Between Crowdsourcing and Bias Management’ (CrowdBias2018) Workshop at **HCOMP**, 2018.
- Publicity co-chair for the AAAI Conference on Human Computation and Crowdsourcing (HCOMP), 2018.
- Co-organizer of the ‘Augmenting Intelligence with Humans-in-the-Loop’ (HumL2018) Workshop at **WWW** and **ISWC**, 2018.
- Student Coordinator for the International Semantic Web Conference (**ISWC**), 2017.
- External Liaison Chair at the 2017 Workshop on Hybrid Human-Machine Computing (HHMC 2017).
- Co-organizer of the workshop ‘Weaving Relations of Trust in Crowd Work: Transparency and Reputation across Platforms’ at WebScience 2016.
- Human Computation and Crowdsourcing Track at the Extended Semantic Web Conference (**ESWC** 2015)
- Member of the Local Organization team for CLEF 2014, Sheffield.
- Entity Ranking Track at the 9th Initiative for the Evaluation of XML Retrieval (INEX 2009).

- Entity Ranking Track at the 8th Initiative for the Evaluation of XML Retrieval (INEX 2008).

Reviewer for Journals

- EPJ Data Science, 2018.
- Knowledge and Information Systems (KAIS), 2018.
- IEEE Transactions on Knowledge and Data Engineering (**TKDE**), 2012, 2017-2018.
- ACM Transactions on Internet Technology (TOIT), 2017.
- Foundations and Trends in Information Retrieval (**FnTIR**), 2017.
- Computer Supported Cooperative Work Journal (CSCWJ), Springer, 2017.
- Journal of Information Science (JIS), 2017.
- Engineering Applications of Artificial Intelligence, Elsevier, 2017.
- Communications of the ACM, 2016.
- The Computer Journal, Oxford University Press, 2016.
- Online Information Review, Emerald, 2016.
- IEEE Transactions on Services Computing (TSC), 2015-2016.
- Information Processing & Management (**IPM**), 2015.
- Information Research, 2015.
- Information Systems, Elsevier, 2015, 2018.
- Knowledge-Based Systems, Elsevier, 2015.
- Engineering Applications of Artificial Intelligence, Elsevier, 2015.
- ACM TIST Special Issue on Crowd in Intelligent Systems, 2015.
- Semantic Web journal (SWJ) Special Issue on Human Computation and Crowdsourcing (HC&C), 2015
- Semantic Web journal (SWJ) Special Issue on Ontology and Linked Data Matching, 2014.
- Journal of Machine Learning Research (**JMLR**), 2014.
- International Journal of Human-Computer Studies (**IJHCS**), 2014, 2016.
- ACM Transactions on Information Systems (**TOIS**), 2014, 2017.
- Special Issue of the Journal of Distributed and Parallel Databases (DAPD) on “Databases and Crowdsourcing”, 2014.
- Journal of Computer Science and Technology, Springer, 2014.
- IEEE Transactions on Neural Networks and Learning Systems (**TNNLS**), 2014-2016.
- ACM Transactions on the Web (**TWEB**), 2013-2016.
- Special Issue of the Journal of **Web Semantics** on “Semantic Search”, Elsevier, 2013.
- Special Issue of the Journal of **Web Semantics** on “Semantic Web Challenge 2013”, Elsevier, 2014.
- Journal of Data and Information Quality (JDIQ), 2013, 2015.
- Majlesi Journal of Electrical Engineering (MJEE), 2013.
- Springer book series: "Theory and Applications of Natural Language Processing", 2012.
- **Information Retrieval**, Springer, 2012, 2015-2017.
- Interactive Learning Environments, Routledge, 2012.
- Journal of Web Engineering (JWE), Rinton Press, 2012.
- IEEE Computational Intelligence Magazine, 2011.
- Knowledge and Information Systems Journal (KAIS), Springer, 2011.
- Artificial Intelligence Journal (AIJ), Elsevier, 2010-2011.
- Journal of the American Society for Information Science and Technology (**JASIST**), 2010, 2016.
- Journal of Network and Computer Applications, Elsevier, 2010.
- International Journal of Web Information Systems, Emerald, 2009.

External Reviewer for Conferences

- ACM CHI 2015 alt.chi track, 2015.
- International Conference on Information Systems (ICIS) 2014, IC Design Science Track.
- Research track of the 12th International Semantic Web Conference ISWC 2013.
- AAAI Conference on Artificial Intelligence (AAAI-13).
- 1st International Workshop on “Crowdsourcing the Semantic Web” at ISWC 2013.
- Demo Track of the 38th International Conference on Very Large Databases VLDB 2012.
- Semantic Web Track of the 21st International World Wide Web Conference WWW 2012.
- Research Track of International Conference on Extending Database Technology EDBT 2012, 2013.

- In-Use Track of the 10th International Semantic Web Conference ISWC 2011.
- Poster Track of the International World Wide Web Conference WWW 2008, 2013.
- Poster Track of the 31st International ACM SIGIR 2008 Conference.

Session Chairing at Conferences

- “Learning to be Efficient” Session at HCOMP 2016.
- “Crowdsourcing & Web Science” Session at ESWC 2015.
- “Crowdsourcing 1” Session at WWW2014.
- “Social and Collaborative Semantics” Session at ISWC 2012.

Service for Funding Bodies (Reviewer for funding applications)

- Australian Research Council (ARC), 2018.
- UK Engineering and Physical Sciences Research Council **EPSRC Full College member**, 2017-now.
- Netherlands Organisation for Scientific Research (NWO), 2017-2018.
- UK Engineering and Physical Sciences Research Council EPSRC Associate College member, 2016-2017.
- Commonwealth Scholarship Commission (CSC), 2017.
- UK Science and Technology Facilities Council (STFC), 2017.
- UK Engineering and Physical Sciences Research Council (EPSRC), 2014-2015.
- UK Arts & Humanities Research Council (AHRC), 2014.
- The German Academic Exchange Service (DAAD), 2015.

Invited Talks & Tutorials

Invited Talks

- “Human Factors and Bias in Crowdsourced Information Retrieval Evaluation”, University of Zurich, Switzerland, 2018.
- “Human Factors and Bias in Crowdsourced Information Retrieval Evaluation”, University of Fribourg, Switzerland, 2018.
- “Human Computation for Entity-Centric Information Access”, Università della Svizzera Italiana (USI), Lugano, Switzerland, 2017.
- “The Power of Big Data” - ACM Distinguished Speaker talk as **keynote** at the Second International “Digital Transformation & Global Society” Conference (DTGS’17), St Petersburg, 2017.
- “Crowdsourcing for Data Management”, invited talk at the PhD School of the Australasian Database Conference (ADC) 2017, Brisbane, 2017.
- “Human Factors in Crowdsourcing” – Research Seminar at the University of Fribourg, 2017.
- “The Power of Big Data” - ACM Distinguished Speaker talk at Accenture Latvia, 2017.
- “Human Computation for Entity-centric Information Access” – Research Seminar at U Glasgow, 2016.
- “Human Computation for Entity-centric Information Access” – Research Seminar at U Leeds, 2016.
- “Introduction to Crowdsourcing” and “Quality at Scale” – Invited talks at **Facebook**, London, UK, 2016.
- “Human Computation for Entity-centric Information Access” – Research Seminar at U Twente, 2016.
- “Human Computation for Entity-Centric Information Access” – Research Seminar at UCL, 2016.
- “Crowdsourcing for Entity-centric Information Access” – **Keynote** at AINL-ISMW, St Petersburg, 2015.
- “Leveraging n-gram statistics for grammatical correction and entity recognition” – Invited talk at **Facebook**, London, UK, 2015.
- “Crowdsourcing for Entity-centric Information Access” - **Keynote** at KDWeb, Cagliari, Italy, 2015.
- “The randomForest package” - Sheffield R Users Group, 2015.
- “MSc Data Science at the University of Sheffield” - Open Data Science Meetup, U Sheffield, 2014.
- “Entity-Centric Information Access” – NLP Group research seminar, U Sheffield, 2014.
- “Human Computation: Machines are not enough” – Ignite Academy, U Sheffield, 2014.
- “Crowdsourcing is for the tail” – **Dagstuhl Seminar** 14282 - Crowdsourcing and the Semantic Web, 2014.
- “Human Computation for Big Data” – CUSO Seminar on Big Data, Fribourg, 2014.
- “Entities, Graphs, and Crowdsourcing for better Web Search” – UvA, Amsterdam, The Netherlands, 2013.
- “Workshop on Crowd-Sourcing” - Heidelberg Laureate Forum, Heidelberg, Germany, 2013.
- “Next-Generation Micro-task Crowdsourcing Platforms” - **Dagstuhl Seminar** 13361 on Crowdsourcing: From Theory to Practice and Long-Term Perspectives, 2013.
- “Entities, Graphs, and Crowdsourcing for better Web Search” – USI, Lugano, Switzerland, 2013.
- “Getting Semantics from the Crowd” - **Dagstuhl Seminar** 12171 on Semantic Data Management, 2012.

- “Current Approaches to Search Result Diversification” - Search Computing Workshop, Milano, Italy, 2010.

Tutorials

- “Crowdsourcing for Data Management” - course at the PhD School of the Australasian Database Conference (ADC) 2017, Brisbane, Australia.
- Course (external consultancy) on Data Mining for Lhasa Limited, May 2017, Leeds, UK.
- “Using Crowdsourcing Effectively for Social Media Research” - Tutorial at **ICWSM** 2016, Cologne, Germany with Ujwal Gadiraju, Djellel E. Difallah, and Michele Catasta.
- “It's Getting Crowded! How to Use Crowdsourcing Effectively for Web Science Research” - Tutorial at **Web Science** 2016, Hannover, Germany with Ujwal Gadiraju, Djellel E. Difallah, and Michele Catasta.
- “Crowdsourcing for Data Processing and Search” - Half-day tutorial at Search Solutions 2015, London, UK.
- “Improving the quality of crowdsourced annotations” tutorial at IEEE AINL-ISMW 2015, St.Petersburg, Russia, 2015.
- “Leveraging **Knowledge Graphs** for Web Search” - RuSSIR 2015 course (8 hours), St Petersburg, 2015.
- “Micro-task Crowdsourcing” - PhD course (14 hours) at U Udine, 2015.
- Full-day tutorial “Microtask crowdsourcing to solve Semantic Web problems” at **ISWC** 2013 with Elena Simperl and Maribel Acosta. (<https://sites.google.com/site/microtasktutorial/>).
- Full-day tutorial “Crowdsourcing for the Semantic Web” at **ESWC** 2013 with Elena Simperl and Maribel Acosta. (<https://sites.google.com/site/crowdsourcingtutorial/>).
- Full-day tutorial “From Expert Finding to **Entity Search** on the Web” at **ECIR** 2012 with Peter Mika, Thanh Tran, and Arjen P. de Vries. (<http://diuf.unifr.ch/main/xi/EntitySearchTutorial/>).

Public Engagement Activities

- “The Gig Economy: challenges and opportunities”, Sheffield Festival of Science and Engineering, British Science Week, March 2017.
- “The power of Big Data”, Café Scientifique, Sheffield, 2015.
- “What is Big Data and why should we care?” talk for Mobile University, Sheffield, 2015.
Invited talk at the University of Sheffield Ignite Academy titled “Human Computation: Machines are not enough” for the Festival of the Mind 2014 (<http://festivalofthemind.group.shef.ac.uk>).

Teaching

- Course leader of “**Data Analytics at Scale**” 2019 for MSc Data Science, U. Queensland.
- Course leader of “**Advanced Database Systems**” 2018, U. Queensland.
- Course leader of “**Advanced Data Analytics**” 2018 for MSc Data Science, U. Queensland.
- Course leader of “**Big Data Analytics**” 2016/2017 for MSc Data Science, U. Sheffield.
- Course leader of “**Data Mining and Visualisation**” 2016/2017 for MSc Data Science, U. Sheffield.
- Teacher for Course “**Introduction to Data Science**” 2016/2017 for MSc Data Science, U. Sheffield.
- Course leader of “**Data Mining and Visualisation**” 2015/2016 for MSc Data Science, U. Sheffield.
- Teacher for Course “**Introduction to Data Science**” 2015/2016 for MSc Data Science, U. Sheffield.
- Course leader of “**Data Mining and Visualisation**” 2014/2015 for MSc Data Science, U. Sheffield.
- Teacher for Course “**Introduction to Data Science**” 2014/2015 for MSc Data Science, U. Sheffield.
- Leader for Course “**Social Computing**” 2013/2014 for the MSc in Computer Science, U. of Fribourg.
- Leader for Course “**Social Computing**” 2012/2013 for the MSc in Computer Science, U. of Fribourg.
- Teacher for Course “**Social Computing**” 2011/2012 for the MSc in Computer Science, U. of Fribourg.
- Guest teacher for Course “**Web Science**” 2010/2011 at the Leibniz University of Hannover.
- TA for “Artificial Intelligence II” 2008/2009 at the Leibniz University of Hannover.

Internal Service

- Credit assessment for BInfTech/BCompSci at the School of ITEE, University of Queensland 2018-now
- Student Advisor for BInfTech at the School of ITEE, University of Queensland 2017-now.
- Program Coordinator for “B. Computer Science” 2018-now, U. Queensland.
- Program Coordinator for “**MSc Data Science**” 2016-2017, U. Sheffield.
- Member of the Strategy Committee of the Information School, University of Sheffield 2015-2017.
- Member of the Teaching Committee of the Information School, University of Sheffield 2014-2017.
- Member of the ethics review board of the Information School, University of Sheffield 2014-2017.

Mentorship

As a Senior Lecturer at the University of Queensland I have supervised 2 Ph.D. students as well as 15 M.Sc. dissertation projects. As a Senior Lecturer at the University of Sheffield I have supervised 4 Ph.D. students as well as 20+ M.Sc. dissertation projects. During my PhD and post-doc, I have advised and mentored undergraduate, master, and PhD students. Additionally, I have supervised M.Sc. thesis and 30+ Social Computing student projects while at the University of Fribourg.

Ph.D. Supervision

- Lei Han, University of Queensland, 2018-now. (Main supervisor)
- Humaira Ehsan, University of Queensland, 2018-now. (Secondary supervisor)
- Rehab Qarout, University of Sheffield, 2016-now. (Secondary supervisor)
- Mengdie Zhuang, University of Sheffield, 2015-now. (Secondary supervisor)
- Wasim Ahmed, "Using Twitter data to provide qualitative insights into pandemics and epidemics", University of Sheffield, 2014-2018. (Secondary supervisor)

External Examiner for Ph.D. viva

- Yuan Jin, "Modelling Techniques and Inference Procedures for Improving Quality Control in Crowdsourcing Applications", Monash University, Australia, August 2018.
- Dilesha Seneviratne, "Patent Link Discovery", Queensland University of Technology, Australia, July 2018.
- Evi Yulianti, "Answer-biased Summarization", RMIT, Australia, May 2018.
- Panagiotis Mavridis, "Using Hierarchical Skills for Optimized Task Selection in Crowdsourcing", Rennes, France, November 2017.
- Ujwal Gadiraju, "It's Getting Crowded! Improving the Effectiveness of Microtask Crowdsourcing", Leibniz Universität Hannover, Germany, October 2017.
- Kinda El-Maarry, "Socially-aware Quality Control for Crowdsourcing", TU Braunschweig, Germany October 2017.
- Alberto Tonon, "Leveraging Entity Types and Properties for Knowledge Graph Exploitation", U Fribourg, Switzerland, 2017.
- S.M. Khelghati, "Deep Web Content Monitoring", U Twente, Netherlands, 2016.
- Michele Catasta, "Memory-based Information Systems", EPFL, Switzerland, 2015.
- Djellel E. Difallah, "Quality of Service in Crowd-Powered Systems", U Fribourg, Switzerland, 2015.

M.Sc. Thesis Supervision

- Supervisor of 15 undergraduate and post-graduate dissertations at the University of Queensland, Australia during 2018-2019.
- Supervisor of 11 MSc dissertations (8 in Data Science, 2 in Information Management, 1 in Information Systems Management) at the University of Sheffield, UK during 2015/2016.
- Supervisor of 10 MSc dissertations (6 in Data Science, 2 in Information Management, 1 in Information Systems, 1 in Information Systems Management) at the University of Sheffield, UK during 2014/2015.
- Supervisor of 7 MSc Computer Science dissertations at the University of Fribourg, Switzerland during 2011-2014.

EU Project Participation

- EU H2020 FashionBrain project (<http://www.fashionbrain-project.eu>), project coordinator.
- EU FP7 Arcomem project (<http://www.arcomem.eu>), WP leader.
- EU FP7 LivingKnowledge project (<http://livingknowledge.europarchive.org/>), WP leader.
- EU FP7 Okkam project (<http://fp7.okkam.org>): "Enabling the Web of Entities", WP leader.
- EU FP6 Nepomuk project (<http://nepomuk.semanticdesktop.org>): "The Social Semantic Desktop". WP leader.

Programming Skills

- Languages: Java, C#, Python, R, SQL, PHP, C, Scheme, Prolog
- Scripting / Formatting: LATEX, HTML, JS, CSS, Bash