

## Gianluca DEMARTINI

Information School  
University of Sheffield  
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*Academic Employment*    **Information School**, University of Sheffield, UK.  
Senior Lecturer (Associate Professor) in Data Science.  
Nov 2015 – now

**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.

### *Honors and Awards*

- 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.

#### *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**

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%).

Gianluca Demartini, Claudiu S. Firan, Tereza Iofciu, Ralf Krestel, and Wolfgang Nejdl. Why Finding Entities in Wikipedia is Difficult, Sometimes. In: **Information Retrieval**, 13(5): 534-567, Springer, October 2010. (Journal impact factor at publication time: 1.841).

## Grants

### 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.
- First place for the scholarship promoted by INSIEL S.p.a. in July 2005 (<http://www.insiel.it/>).

### Internal Research Grants

- 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.

## Invited Talks & Tutorials

### Invited Talks

- “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.
- “Human Computation for Entity-Centric Information Access”, invited talk at 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

- 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, German 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/>).

### Community activities

#### Organizer

- Student Coordinator for the International Semantic Web Conference (**ISWC**), 2017.
- 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).

#### External Advisor

- For Data Science MSc programmes at the University of Chichester, UK, 2017-now.

#### Journal Editorial Board

- **Area Editor** for the Journal of **Web Semantics**, Elsevier, 2016-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**

- 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**), 2015-2017.

### **Program Committee Member**

- Research track of the International Semantic Web Conference (**ISWC**), 2012, 2017.
- Crowdsourcing research track at the World Wide Web Conference (**WWW**), 2017.
- ACM International Conf. on Research and Development in Information Retrieval (**SIGIR**), 2012-2017.
- ACM SIGKDD Conference on Knowledge Discovery and Data Mining (**KDD**), 2017.
- Poster track at the World Wide Web Conference (**WWW**), 2017.
- International ACM Web Science Conference (**WebSci**), Poster Track, 2017.
- iConference, 2017.
- 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.
- Content Analysis track at the World Wide Web Conference (**WWW**), 2016.
- Doctoral Consortium at the International Semantic Web Conference (**ISWC**), 2016-2017.
- 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.
- The International AAAI Conference on Weblogs and Social Media (**ICWSM**) 2014, 2017.
- Replication, Benchmark and Data Track of the International Semantic Web Conference (**ISWC**), 2014.
- Extended Semantic Web Conference (**ESWC**), 2013-2016.
- 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.

#### **Reviewer for Journals**

- ACM Transactions on Internet Technology (TOIT), 2017.
- Foundations and Trends in Information Retrieval (**FnTIR**), 2017.
- Journal of Information Science (JIS), 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.
- 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.
- 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.
- IEEE Transactions on Knowledge and Data Engineering (**TKDE**), 2012.
- Springer book series: "Theory and Applications of Natural Language Processing", 2012.
- **Information Retrieval**, Springer, 2012, 2015-2016.
- 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)**

- UK Engineering and Physical Sciences Research Council **EPSRC Associate College** member, 2016-now.
- 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.

### *Teaching*

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

### *University Administration Roles*

- Program Coordinator for “**MSc Data Science**” 2016-now, 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-now, U. Sheffield.

### *Mentorship*

As a Senior Lecturer at the University of Sheffield I am supervising Ph.D. students as well as 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 at the University of Fribourg.

### **Current Ph.D. Students**

- Wasim Ahmed, “Using Twitter data to provide insights into general and specific health conditions and health related events”, started in October 2014.
- Philip Webster, “Investigating entity-centric methods for information exploration and discovery in big digital archives”, started in October 2015.
- Mengdie Zhuang, “Modeling User Actions based on Process”, started in October 2015.
- Rehab K Qarout, started in May 2016.

### **External Examiner for Ph.D. viva**

- 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 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 FP7 Arcomem project (<http://www.arcomem.eu>).
- EU FP7 LivingKnowledge project (<http://livingknowledge.europarchive.org/>).
- EU FP7 Okkam project (<http://fp7.okkam.org>): “Enabling the Web of Entities”.
- EU FP7 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