

Malika BENDECHACHE

PERSONAL DATA

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SUMMARY

I am currently a **Lecturer Above the Bar/Assistant Professor** in the School of Computer Science at the University of Galway (UoG) and an **SFI Funded Investigator** at the ADAPT and Lero SFI research centres.

My background is in Big data Analytics, Machine Learning, Data Governance, Parallel and Distributed Systems, Cloud/Edge/Fog Computing, Blockchain, Security and Privacy. I design novel **Big Data Analytics** and **Machine Learning** techniques to enhance the capability and efficiency of complex systems, and I also leverage complex systems to improve the effectiveness, **privacy** and **trustworthiness** of Analytics/Machine Learning techniques.

Previously, I have held the position of **Lecturer/Assistant Professor** in the School of Computing at Dublin City University (DCU).

I have also held the position of **Post-Doctoral Researcher** at the Irish Institute of Digital Business (IIDB, dotLab), **School of Business, DCU**. My work was part of the RECAP Horizon 2020 project that focused on developing the next generation of Cloud/Edge/Fog Computing through Optimisation, Automation and Simulation.

I have also occupied the position of **Post-Doctoral Researcher** at the CONSUS research centre, School of Computer Science, **University College Dublin (UCD)** in collaboration with Origin Enterprises PLC. I applied **Statistical Analysis, Machine Learning & Data Mining** techniques on **real agriculture sensor data** to improve sustainable crop production and management techniques, which will lead to more efficient food production with a lower environmental impact.

I obtained my **PhD** in Computer Science within 3 years at **Insight Centre for Data Analytics, UCD**. My PhD topic is '**Study of Distributed Dynamic Clustering Framework for Spatial Data Mining**': I proposed and developed a new distributed Data Mining framework to analyse Big Data and produce accurate results within reasonable response times.

EDUCATION

JAN 2018	PhD in COMPUTER SCIENCE, University College Dublin , Ireland Title: "Study of Distributed Dynamic Clustering Framework for Spatial Data Mining"
JAN 2014	Researcher in DATA MINING and DISTRIBUTED SYSTEM Waterford Institute of Technology (WIT), Waterford , Ireland Scholarship of 18 months Subject: Data Mining Techniques and Distributed Intelligent Systems
JUL 2010	MSc in NETWORKS AND DISTRIBUTED SYSTEMS (RANKING: 1 st /192) University A-Mira of Bejaia , Algeria Thesis: "Performance Evaluation of peer-to-peer Networks"
JUL 2008	BSc in COMPUTER SCIENCE (RANKING: 3 rd /250) University A-Mira of Bejaia , Algeria

WORK EXPERIENCE

SEP 2022 NOW	<p>Lecturer/Assistant Professor <i>School of Computer Science, University of Galway, Ireland</i></p> <p>Designing, developing and coordinating modules as part of the online MSc in Cybersecurity.</p>
JAN 2020 AUG 2022	<p>Lecturer/Assistant Professor <i>School of Computing, DCU, Ireland</i></p> <p>Designing, developing and coordinating three modules as part of the FutureLearn online MSc Skill Net in Blockchain. This is a fully online master running on the FutureLearn platform</p>
OCT 2018 DEC 2019	<p>Post-Doctoral Researcher <i>Irish Institute of Digital Business (IIDB), School of Business, DCU, Ireland</i></p> <p>Design, Modelling, development and simulation of breakthrough Cloud and Edge/Fog Computing technology applications</p>
SEP 2018 DEC 2019	<p>Part-time Lecturer <i>CCT College Dublin, Ireland</i></p> <p>Design and Deliver the undergrad modules: Fundamentals of Statistics for Data Analytics and Analytical Methods for Big Data</p>
JAN 2018 NOW	<p>Programme Developer <i>CCT College Dublin, Ireland</i></p> <p>Programme development of four diplomas (i.e., MSc in Science, Diploma in Data Analytics for Business, Diploma in Artificial Intelligence, Diploma in Applied Software Development, and Diploma in Networking & Systems Security). All programmes obtained the QQI Irish state accreditation</p>
JAN 2018 JUL 2018	<p>Post-Doctoral Researcher <i>CONSUS Research Centre, UCD, Ireland</i></p> <p>Applying statistical analysis and machine learning techniques to improve sustainable crop production and management techniques, optimising crop production efficiency, which will lead to a more efficient food production with a lower environmental impact</p>
JAN 2015 JUL 2017	<p>Teacher Assistant and Demonstration <i>UCD, Ireland</i></p> <p>Planning and delivering well-structured lab sessions which engage and motivate students in Cloud Computing (MSc), Data Mining (MSc), Java (3rd year) and Information Theory (2nd year)</p>
JAN 2015 JUL 2017	<p>Tutor and IT Support <i>UCD, Ireland</i></p> <p>Providing an academic support to Computer Science students and helping them with course materials that they struggle to understand</p>
SEP 2012 JAN 2014	<p>Research Internship <i>Erasmus Mundus, Averroes scholarship, Waterford Institute of Technology (WIT), Ireland</i></p> <p>Application of data mining techniques on distributed intelligent systems.</p>
JAN 2013 MAR 2013	<p>Research Internship <i>General and Parallel Computational Research Group (PCRG), UCD, Ireland</i></p> <p>Modelling of a distributed intelligent system as a multi-objective optimisation problem for solving the problem of distributed data mining</p>
NOV 2008 MAR 2009	<p>Work Placement <i>Corps Gras de Bejaia (CO.G.B.Belle), Algeria</i></p> <p>Designing and developing an advertisement website for the company</p>
MAR 2008 MAY 2008	<p>Internship <i>Vice-Rectorate for the Promotion of Scientific Research and External Relations, University of A-Mira of Bejaia, Algeria</i></p> <p>Designing and developing a web application for management of research projects</p>

GRANT PROPOSALS

JUL 2020	SFI COVID-19 Rapid Response Grant (~€52k) Project “PRIVATT” in collaboration with researchers from both ADAPT and Lero research centres (<i>project successfully completed</i>)
JAN 2021	SFI Discover Grant (~€50k) Project “AI in My Life” through the ADAPT research centre (ongoing project)
JAN 2021	Joint PhD Project In collaboration with Dr Rob Brennan through ADAPT research centre
MAY 2021	SFI Grant through the Lero-2 research centre (€250k) In collaboration with Prof. Regina Connolly from Business School at DCU (<i>project starting in September 2021</i>)
JULY 2021	SFI Discover Funding Grant (~€50k) “AI in My Life project phase II” through the ADAPT research centre (<i>proposal under review</i>)
MAR 2021	SFI Spokes EMPOWER Proposal Through the ADAPT research centre (<i>under review</i>)
JAN 2020	H2020 Project in Data Governance In collaboration with 8 partners from industry and 5 partners from academia across 6 European countries through ADAPT centre (<i>unsuccessful</i>)

AWARDS

APR 2021	Teaching Hero Awards from the National Forum for the Enhancement of Teaching and Learning and the Union of Students in Ireland
JAN 2021	ADAPT Recognition Awards 2020 as part of the COVID Rapid Response Teams in the category of “ Research Team Award ”
JULY 2019	3rd Place Award in Challenge-Up-2019 competition: Multi-modal Fall Detection for Healthcare
JULY 2015	Best paper award at the International Conference on Spatial Data Mining (ICSDM-2015) Paper Title: Distributed Clustering Algorithm For Spatial Data Mining

ACTIVITIES AND MEMBERSHIPS

JAN 2020	Member/funded investigator of ADAPT, the Global Centre of Excellence for Digital Content Technology
MAR 2020	Member/funded investigator of Lero, the Science Foundation Ireland Research Centre for Software
MAR 2020	Member of the SFI Centre for Research Training in Machine Learning (ML-Labs).
MAR 2020	Member of the School of Computing Ethics Committee
APR 2020	Member of the SFI Centre for Research Training in Artificial Intelligence (CRT-AI)
FEB 2020	An academic supervisor in the ADAPT SKLODOWSKA-CURIE post-doctoral fellowship programs (ELITE-S and EDGE).
APR 2020	Member of the Blockchain Ireland Meetup
APR 2020	PC member of the International Symposium on High Performance Mobile Computing & Wireless Networks for HPC (MCWN 2020) Co-located with the 18th International Conference on High Performance Computing & Simulation (HPCS 2020)
SEP 2020	School of Computing FutureLearn Chair
JAN 2021	Organising the PRIVATT stakeholder Workshop: Assessing Irish Attitudes to Privacy in Times of COVID-19
NOV 2020	Chairing the AURA workshop: Archives in the UK/Republic of Ireland and AI workshop
JULY 2016	Mentoring BT Young Scientist Business Bootcamp working on the commercial and social development of their projects at NovaUCD
JUNE 2016	Participating in the Insight hackathon for data science
MARCH 2016	Mentoring and encouraging teenage girls and their parents in Girl-HackIreland event to consider careers in STEM (Science, Technology, Engineering and Maths)

TALKS

FEB 2021	Guest Lecture: Ethics and trustworthiness of AI-based systems at CRT-AI Week, DCU
NOV 2020	Guest Lecture: The Need for Responsible AI-Based Systems at the Tilburg University, Netherlands
JUN 2020	Keynote Speaker: The live of a female researcher in EU. Universidade de Pernambuco, Brazil. (Live on Instagram with researchers)

SUPERVISION / MENTORING

CURRENTLY	Co-supervising a PhD student with Dr Tanya Livingstone from the Mechanical and Manufacturing Engineering School at DCU
SEP 2024	<i>Development of an organ-on-a-chip device for cartilage repair applications using machine learning</i>
SEP 2021	Supervising a PhD student through the ADAPT centre
SEP 2025	<i>Developing and validation of new analytics, metrics and tools to support automated data governance and AI governance</i>
APR 2022	Supervising a PhD student through the Lero centre
APR 2026	<i>Ethics and Trustworthiness of Algorithmic Decision-making Systems in the Public Sector</i>
SEP 2021	Supervising two PhD students , one through the ML-Labs (SFI Centre For Research Training in Machine Learning) and the other through the CRT-AI program.
SEP 2025	<i>1) Brain tumor segmentation using four modalities. 2) Towards a better data augmentation using Intra-Class Random Erasing (ICRE) techniques.</i>
JUL 2020	Supervising/managing two Post-doctoral researchers through the school of computing at DCU
APR 2021	<i>Assessing the Irish attitudes to privacy in the times of COVID-19</i>
CURRENTLY	Supervising three MSc projects in the school of computing at DCU
AUG 2021	<i>Two projects in the field of Blockchain and one in Image Segmentation</i>
CURRENTLY	Supervising two 4th-year projects in the school of computing at DCU
MAY 2021	<i>The two projects are about developing mobile apps, one for Pocket Trainer and another for Smart Parking</i>
CURRENTLY	Supervising three 3rd-year projects in the school of computing at DCU
MARCH 2021	<i>The projects are: Ireland's house rent prices prediction, DCU Hub App, Music classifier using machine learning</i>
JUN 2019	Supervising Two MSc students during their internships in dotLab at Business School, DCU
AUG 2019	<i>Comparing the two implementations of a Parallel DBSCAN using Map-Reduce and Spark, Modeling and simulation of ElasticSearch using CloudSim</i>
JUN 2017	Mentoring a MSc student at the Insight Centre for Data Analytics, UCD
AUG 2017	<i>Implementing a distributed clustering algorithm using MapReduce</i>

PUBLICATIONS

Journals

1. Ranjbarzadeh Ramin, Tataei Sarshar Nazanin, Jafarzadeh Ghouschi Saeid, Saleh Esfahani Mohammad, Parhizkar Mahboub, Pourasad Yaghoub, Anari Shokofeh, and Bendeche, Malika. Mrfcnn: multi-route feature extraction model for breast tumor segmentation in mammograms using a convolutional neural network. *Annals of Operations Research*, 66, 2022. **(Q1, Published)**
2. Ramin Ranjbarzadeh, Shadi Dorosti, Saeid Jafarzadeh Ghouschi and Sadaf Safavi and Navid Razmjoo, Nazanin Tataei Sarshar, Shokofeh Anari, and Bendeche, Malika. Nerve optic segmentation in ct images using a deep learning model and a texture descriptor. *Complex and Intelligent Systems*, 2022. **(Q2, Published)**
3. Soroush Baseri Saadi, Nazanin Tataei Sarshar, Soroush Sadeghi, Ramin Ranjbarzadeh, Mersedeh Kooshki Forooshani, and Bendeche, Malika. Investigation of effectiveness of shuffled frog-leaping optimizer in training a convolution neural network. *Journal of Healthcare Engineering*, 2022. **(Q2, Published)**
4. Milad Taleby Ahvanooy, Mark Xuefang Zhu, Wojciech Mazurczyk, and Bendeche, Malika. Information hiding in digital textual contents: Techniques and current challenges. *Computer*, 55(6):56–65, 2022. **(Q1, Published)**
5. Ramona Trestian, Guodong Xie, Pintu Lohar, Edoardo Celeste, Malika Bendeche, Rob Brennan, Evgeniia Jayasekera, Regina Connolly, and Irina Tal. Data privacy in a time of covid-19: How concerned are you? *IEEE communications magazine*, 35, 2021. **(Q1, Published)**
6. Soroush Baseri Saadi, Ramin Ranjbarzadeh, Ozeir kazemi, Amir Amirabadi, Saeid Jafarzadeh Ghouschi, Oveis Kazemi, Sonya Azadikhah, and Bendeche, Malika. Osteolysis: A literature review of ba-

sic science and potential computer-based image processing detection methods. *Computational Intelligence and Neuroscience*, 2021. (Q1, Published)

7. Aisha Chandio, Yao Shen, Bendeche, Malika, Irum Inayat, and Teerath Kumar. Aud: Audio urdu digits dataset for automatic audio urdu digit recognition. *Applied Sciences*, 11(19), 2021. (Q2, Published)
8. Malika Bendeche, Pintu Lohar, Guodong Xie, Rob Brennan, Ramona Trestian, Edoardo Celeste, Evgeniia Jayasekera, and Irina Tal. Public attitudes towards privacy in covid-19 times in the republic of ireland: a pilot study. *Information Security Journal*, 30, 2021. (Q2, Published)
9. Malika Bendeche, Sergej Svorobej, Patricia Takako Endo, Adrian Mihai, and Theo Lynn. Simulating and evaluating a real-world elasticsearch system using the recap des simulator. *Future Internet*, 13(4):83, 2021. (Q2, Published)
10. Saeid Jafarzadeh Ghouschi, Ramin Ranjbarzadeh, Amir Hussein Dadkhah, Yaghoub Pourasad, and Malika Bendeche. An extended approach to predict retinopathy in diabetic patients using the genetic algorithm and fuzzy c-means. *BioMed Research International*, 2021. (Q2, Published)
11. Ramin Ranjbarzadeh, Saeid Jafarzadeh Ghouschi, Malika Bendeche, Amir Amirabadi, Mohd Nizam Ab Rahman, Soroush Baseri Saadi, Amirhossein Aghamohammadi, and Mersedeh Kooshki Forooshani. Lung infection segmentation for covid-19 pneumonia based on a cascade convolutional network from ct images. *BioMed Research International*, 2021, 2021. (Q2, Published)
12. Ramin Ranjbarzadeh, Abbas-Bagherian Kasgari, Saeid-Jafarzadeh Ghouschi, Shokofeh Anari, Maryam Naseri, and Malika Bendeche. Brain tumor segmentation based on deep learning and an attention mechanism using mri multi-modalities brain images. *Scientific Reports*, 11(1):1–17, 2021. (Q1, Published)
13. Amirhossein Aghamohammadi, Ramin Ranjbarzadeh, Fatemeh Naiemi, Marzieh Mogharrebi, Shadi Dorosti, and Malika Bendeche. Tpcnn: Two-path convolutional neural network for tumor and liver segmentation in ct images using a novel encoding approach. *Expert Systems with Applications*, page 115406, 2021. (Q1, Published)
14. Wasim Ahmed Ali, KN Manasa, Mohammed Aljunid, Malika Bendeche, P Sandhya, et al. A review of current machine learning approaches for anomaly detection in network traffic. *Journal of Telecommunications and the Digital Economy*, 8(4):64–95, 2020. (Q2, Published)
15. Malika Bendeche, Sergej Svorobej, Patricia Takako Endo, and Theo Lynn. Simulating resource management across the cloud-to-thing continuum: A survey and future directions. *Future Internet*, 12(6):95, 2020. (Q2, Published)
16. Christos K Filelis-Papadopoulos, Patricia Takako Endo, Malika Bendeche, Sergej Svorobej, Konstantinos M Giannoutakis, George A Gravvanis, Dimitrios Tzovaras, James Byrne, and Theo Lynn. Towards simulation and optimization of cache placement on large virtual content distribution networks. *Journal of Computational Science*, 39:101052, 2019. (Q1, Published)
17. Sergej Svorobej, Patricia Takako Endo, Malika Bendeche, Christos Filelis-Papadopoulos, Konstantinos M Giannoutakis, George A Gravvanis, Dimitrios Tzovaras, James Byrne, and Theo Lynn. Simulating fog and edge computing scenarios: An overview and research challenges. *Future Internet*, 11(3):55, 2019. (Q2, Published)
18. Malika Bendeche, Tari A-Kamel, and M-Tahar Kechadi. Parallel and distributed clustering framework for big spatial data mining. *International Journal of Parallel, Emergent and Distributed Systems*, 0(0):1–19, 2018. (Q2, Published)

Refereed Conferences / Workshops

1. Takfarinas Saber and Bendeche, Malika. Dillema: A framework for collaborative multi-cultural lecturing material in international university colleges. In *2021 XVI Latin American Conference on Learning Technologies (LACLO)*, pages 230–235, 2021
2. R. Trestian, G. Xie, P. Lohar, E. Celeste, Bendeche, M., R. Brennan, and I. Tal. Privatt - a closer look at people's data privacy attitudes in times of covid-19. In *2021 IEEE International Mediterranean Conference on Communications and Networking (MeditCom)*, pages 174–179, 2021
3. Pintu Lohar, Guodong Xie, Bendeche, Malika, Rob Brennan, Edoardo Celeste, Ramona Trestian, and Irina Tal. Irish attitudes toward covid tracker app & privacy: Sentiment analysis on twitter and survey data. In *The 16th International Conference on Availability, Reliability and Security, ARES 2021*, New York, NY, USA, 2021. Association for Computing Machinery

4. Takfarinas Saber, Bendeche, Malika, and Anthony Ventresque. Incorporating user preferences in multi-objective feature selection in software product lines using multi-criteria decision analysis. In Bernab  Dorronsoro, Lionel Amodeo, Mario Pavone, and Patricia Ruiz, editors, *Optimization and Learning*, pages 361–373, Cham, 2021. Springer International Publishing
5. Guodong Xie, Pintu Lohar, Claudia Florea, Bendeche, Malika, Ramona Trestian, Rob Brennan, Regina Connolly, and Irina Tal. Privacy in times of covid-19: A pilot study in the republic of ireland. In *The 16th International Conference on Availability, Reliability and Security*, ARES 2021, New York, NY, USA, 2021. Association for Computing Machinery
6. Bendeche, Malika, Irina Tal, Pj Wall, Laura Grehan, Emma Clarke, Aidan Odriscoll, Laurence Van Der Haegen, Brenda Leong, Anne Kearns, and Rob Brennan. *AI in My Life: AI, Ethics & Privacy Workshops for 15-16-Year-Olds*, page 34–39. Association for Computing Machinery, New York, NY, USA, 2021
7. Soumi Mitra, Nandhini Reddy Aileni, Irina Tal, and Bendeche, Malika. Towards an optimised vehicle detection algorithm for multi-object tracking in traffic surveillance. 2021
8. Malika Bendeche, Irina Tal, PJ Wall, Laura Grehan, Emma Clarke, Aidan Odriscoll, Laurence Van Der Haegen, Brenda Leong, Anne Kearns, and Rob Brennan. Ai in my life: Ai, ethics & privacy workshops for 15-16-year-olds. In *13th ACM Web Science Conference 2021 (WebSci '21)*, pages 34–39. ACM Digital Library, 2021. **(Rank B)**
9. Malika Bendeche, Nihar Sudhanshu Limaye, and Rob Brennan. Towards an automatic data value analysis method for relational databases. In *22nd International Conference on Enterprise Information Systems (ICEIS)*. SCITEPRESS, 2020.
10. Malika Bendeche, Saber Takfarinas, Gabriel-Miro Muntean, and Irina Tal. Application of block-chain technology to 5g-enabled vehicular networks: survey and future directions. In *International Symposium on High Performance Mobile Computing & Wireless Networks for HPC (MCWN)*. IEEE, 2020. **(Rank B)**
11. Malika Bendeche, Silva Ivanovitch, Santos Guto, Leoni, Guedes Luiz, Affonso, Sergej Svorobej, Mario Manuel, Noya, Ares M.Eduardo, James Byrne, Patricia Endo, and Theo Lynn. Analysing dependability and performance of a real-world elastic search application. In *9th Latin-American Symposium on Dependable computing (LADC)*. IEEE, 2019.
12. Malika Bendeche, Sergej Svorobej, Patricia Endo, James Byrne, Mario Manuel, Noya, Ares M.Eduardo, and Theo Lynn. Modelling and simulation of elasticsearch using cloudsim. In *23rd International Symposium on Distributed Simulation and Real Time Applications (DS-RT-2019)*. IEEE, 2019. **(Rank B)**
13. Malika Bendeche, Nhien-An Le-Khac, and M-Tahar Kechadi. Performance evaluation of a distributed clustering approach for spatial datasets. In *15th International Conference on Australasian Data Mining Conference (AusDM)*. CRPIT, 2017. **(Rank B)**
14. Malika Bendeche, Nhien-An Le-Khac, and M-Tahar Kechadi. Hierarchical aggregation approach for distributed clustering of spatial datasets. In *16th International Conference on Data Mining Workshops (ICDMW)*, pages 1098–1103. IEEE, 2016. **(Rank A*)**
15. Malika Bendeche, Nhien-An Le-Khac, and M-Tahar Kechadi. Efficient large scale clustering based on data partitioning. In *International Conference on Data Science and Advanced Analytics (DSAA)*, pages 612–621. IEEE, 2016. **(Rank B)**
16. Malika Bendeche and M-Tahar Kechadi. Distributed clustering algorithm for spatial data mining. In *2nd International Conference on Spatial Data Mining and Geographical Knowledge Services (ICSMD)*, pages 60–65. IEEE, 2015. **(Best Paper Award)**

Books / Book Chapters

1. Silvano Ramos de Assis Neto, Guto Leoni Santos, Elisson da Silva Rocha, Malika Bendeche, Pierangelo Rosati, Theo Lynn, and Patricia Takako Endo. Detecting human activities based on a multimodal sensor data set using a bidirectional long short-term memory model: A case study. In *Challenges and Trends in Multimodal Fall Detection for Healthcare*, pages 31–51. Springer, 2020. **(“3rd place in Challenge Up competition”)**
2. Minas Spanopoulos-Karalexidis, Christos K Filelis Papadopoulos, Konstantinos M Giannoutakis, George A Gravvanis, Dimitrios Tzovaras, Malika Bendeche, Sergej Svorobej, Patricia Takako Endo, and Theo Lynn. Simulating across the cloud-to-edge continuum. In *Managing Distributed Cloud Applications and Infrastructure*, pages 93–115. Springer, 2020.
3. Sergej Svorobej, Malika Bendeche, Frank Griesinger, and J rg Domaschka. Orchestration from the cloud to the edge. *The Cloud-to-Thing Continuum*, pages 61–77, 2020.

Posters

1. Malika Bendechange, Pintu Lohar, Guodong Xie, Rob Brennan, Ramona Trestian, Edoardo Celeste, Evgeniia Jayasekera, and Irina Tal. Assessing irish attitudes to privacy in times of covid-19. In *SFI Summit*, 2020.
2. Malika Bendechange, Pintu Lohar, Guodong Xie, Rob Brennan, Ramona Trestian, Edoardo Celeste, Evgeniia Jayasekera, and Irina Tal. Privacy & pandemics: Responsible uses of technology and health data during times of crisis. In *FPF privacy & pandemics event*, 2020.
3. Malika Bendechange and Kechadi Tahar. Distributed clustering as a new approach for big data analysis. In *Insight Student Conference-17*, 2017.
4. Malika Bendechange and Kechadi Tahar. Efficient large-scale clustering based on data partitioning. In *Insight Student Conference-16*, 2016.

RELEVANT COURSES AND TRAINING

- Research Integrity qualification by Epigeum: Concise (core course)
- Human subjects protections qualification by Epigeum (specialist course)
- DCU001: Orientation for New Staff
- DCU125: Readiness for Academic Promotion Workshop
- DCU009: Maximising your Research Impact and Visibility
- DCU007: Supervising the PhD Process
- SciVal information session
- DCU039: Time Management: How to plan your work in a busy environment
- DCU151: Project Management
- Getting Ready for Horizon Europe workshop

TECHNICAL SKILLS

Parallel and Distributed System:

- **Multi-Agent Systems:** JAVA Agent Development Framework (JADE)
- **Apache Hadoop and MapReduce**
- **Cloud Services:** Amazon (AWS, EC2 and S3) and Google (App Engine)
- **Simulation of Cloud, Edge/Fog and IoT:** simulation tools; CloudSim
- **Peer-To-Peer Networks:** Gnutella, eMule, Torrent

Data Analysis:

- **Data Preparation:** data cleaning, data profiling, pre-processing and data warehousing
- **Machine Learning, Data Mining and Data Analytics:** Classifications, Prediction, Regression, Association, Clustering, etc
- **Deep Learning:** TensorFlow
- **Data Mining tools:** Weka and RapidMiner
- Data Modelling and Evaluation
- Big Data Management and Processing

Various Skills:

- Data structures, Graphs and algorithms complexity analysis.
- **Programming and scripting languages:** HTML, Python, R, Bash, Java, Latex and PHP
- **IDEs:** Eclipse, NetBeans, Code::Blocks and PyCharm.

- **OSes:** Windows, Linux and Mac
- **Data Visualisation Tools:** Tableau, Gnuplot
- **Databases:** MYSQL, MongoDB, and Cassandra
- **Communication Networks:** LAN and WAN
- **Mobile Development:** Kivy on Android
- **Web Development:** Django

LANGUAGES

BERBER: Mothertongue
ENGLISH: Fluent
FRENCH: Fluent
ARABIC: Fluent

INTERESTS AND ACTIVITIES

I am a big fan of Technology (VR, IoT, Drone, etc.). I also enjoy running, travelling and playing foosball.