Ana Freire

ABOUT ME

I am a postdoctoral researcher and lecturer at Universitat Pompeu Fabra, Barcelona.

I've been working at different universities for 9 years (**more than 800 hours of teaching**) and I also experienced working in a multinational as a sales engineer.

I contributed with **more than 30 publications** and **2 US patents**. I am passionate about teaching and I received the **Quality Teaching Awards** (UPF) in 2017 for using innovative techniques.

ana.freire@upf.edu

anafreire.github.io

@ana__freire

www.linkedin.com/in/freireana

WORK MOBILITY

SPANISH
ENGLISH
ITALIAN
GALICIAN
CATALAN
PORTUGUESE

WORK EXPERIENCE

UNIVERSITAT POMPEU FABRA, BARCELONA
September 2015 - Currently
I currently work as a Postdoc Researcher at the ETIC Department. My contract includes 160 teaching hours per year. I am also the Director of the UPF Center for Sustainability.

DENODO TECHNOLOGIES
September 2014 – August 2015
My role as a Sales Engineer in this multinational consisted in developing Proofs of Concept and demos to the customers, most of them big companies with huge data infrastructures.

UNIVERSIDADE DA CORUÑA
August 2008 – September 2015
I started working as a research assistant in Biomedical Informatics for two years. After finishing the doctoral studies in 2014, I got a position as Teaching Associate.

EDUCATION

PHD IN COMPUTER SCIENCE (2014). Max Qualification Cum Laude.
Universidade da Coruña (Spain). In collaboration with:

POSTGRADUATE DIPLOMA IN COMPUTER SCIENCE (2010)
Universidade da Coruña (Spain).

COMPUTER SCIENCE ENGINEERING (2008)
Universidade da Coruña (Spain)

AWARDS

CASA FELLOWSHIP (CORNELL UNIVERSITY)
CONSORTIUM FOR STUDIES ABROAD, 2018

QUALITY TEACHING AWARDS
Consell Social (UPF), 2017

EQUIT@T AWARD (HONORABLE MENTION)
COEINF, 2017

BIG DATA TALENT AWARDS
Big Data CoE, 2015

GOOGLE ANITA BORG SCHOLARSHIP (FINALIST)
Google Inc., 2012

TABLE OF CONTENTS

KEYWORDS: Web Search, Web Mining, Social Media Analysis, Biomedical Informatics, Gender & ICT.

INDEXED PUBLICATIONS
(Note: in the area of Information Retrieval conferences are more prestigious than journals.)

1. Diana Ramírez-Cifuentes, Marc Mayans and **Ana Freire**. Early Risk Detection of Anorexia in Social Media. In Proc. of INSCI 2018 - International Conference on Internet Science (In press). 2018. **SJR 0.29. Q2.**

2. Xiao Bai, Barla Cambazoglu, Ioannis Arapakis and **Ana Freire**. Understanding and Leveraging the Impact of Response Latency on User Behaviour in Web Search. ACM Transactions On Information Systems (TOIS), 36 (2) pp:21:1–21:42, 2017. **JCR: 2.312. SJR: 0.738. Q1.**

3. **Ana Freire**, Craig Macdonald, Nicola Tonellotto, Iadh Ounis and Fidel Cacheda. 2015. Queuing Theory-based Latency/Power Tradeoff Models for Replicated Search Engines. Journal of Universal Computer Science, vol. 21 – 13, pp. 1790-1809. 2015. **JCR: 0.696. SJR: 0.371. Q2.**

4. **Ana Freire**, Craig Macdonald, Nicola Tonellotto, Iadh Ounis and Fidel Cacheda. A Self-Adapting Latency/Power Tradeoff Model for Replicated Search Engines. In Proc. of 7th ACM Web Search and Data Mining - WSDM 2014, pp 13-22. ISSN 978-1-4503-2351-2. 2014. CORE **Ranking A*. Acceptance rate: 18%.**

5. **Ana Freire**, Craig Macdonald, Nicola Tonellotto, Iadh Ounis, and Fidel Cacheda. Hybrid query scheduling for a replicated search engine. In Proc. 35th European Conference in Advances in Information Retrieval, volume 7814, pp 435–446. ISSN 0302-9743. 2013**. CORE Ranking A. Acceptance rate: 13%. SJR 0.329. Q2.**

6. **Ana Freire**, Craig Macdonald, Nicola Tonellotto, Iadh Ounis, and Fidel Cacheda. Scheduling queries across replicas. In Proc. of the 35th International ACM SIGIR Conference on Research and Development in Information Retrieval, SIGIR '12, pp 1139–1140. ISSN 978-1-4503-1472-5. 2012. **CORE Ranking A*. Acceptance rate: 36.5%.**

7. Javier Parapar, **Ana Freire**, Álvaro Barreiro. N-gram based models for retrieval in degraded large collections. Lecture Notes in Computer Science - Advances in Information Retrieval, Vol. 5478, pp 680-684. ISSN 03029743. 2009. **SJR 0.336. CORE Ranking A. Acceptance rate: 41%.**

8. Victor Leiva and **Ana Freire**. Towards suicide prevention: early detection of depression on social media. In Proc. of INSCI 2017 - International Conference on Internet Science. 2017. **SJR 0.315. Q2.**

9. Cristian R. Munteanu, Vanessa Aguiar-Pulido, **Ana Freire**, Marcos Martínez-Romero, Ana B. Porto-Pazos, Javier Pereira, Julián Dorado Graph-based Processing of Macromolecular Information. Current Bioinformatics. ISSN 1574-8936, 2015. **JCR 2.017. SJR 0.320. Q3.**

10. Alba Cabarcos, Tamara Sánchez, José A. Seoane, Vanessa Aguiar-Pulido, **Ana Freire**, Julián Dorado, Alejandro Pazos. Retrieval and Management of Medical Information from Heterogeneous Sources, for its Integration in a Medical Record Visualisation Tool. International Journal of Electronic Healthcare, Vol. 5(4), pp 371-385. ISSN 1741-8461. 2010. **SJR 0.231.**

11. **Ana Freire**, José A. Seoane, Cristina Ruiz-Romero, Guillermo López, Julián Dorado. A Block-matching based technique for the analysis of 2D gel images. Studies in Health Technology and Informatics, Vol. 160, pp 1282-1286. ISSN 0926-9630. 2010. **SJR 0.209.**

12. **Ana Freire**, José A. Seoane, Cristina Ruiz-Romero, Guillermo López, Julián Dorado. A Block-matching based technique for the analysis of 2D gel images. In Proc. of MEDINFO 2010 - 13th World Congress on Medical and Health Informatics. pp.: 1282-1286. ISBN 978-1-60750-587-7). 2010. **CORE Rank B.**

13. **Ana Freire**, Vanessa Aguiar-Pulido, Juan R. Rabuñal, Marta Garrido. Genetic Algorithm based on Differential Evolution with Variable Length – Runoff Prediction on an Artificial Basin. Proc. of Int. Conference on Evolutionary Computation (ICEC), pp 207-212. ISSN 978-989-8425-31-7. 2010. **CORE Rank B.**

14. José M. Vázquez-Naya, Vanessa Aguiar-Pulido, José A. Seoane, **Ana Freire**, José A. Serantes, Julián Dorado, Alejandro Pazos, Cristian R. Munteanu. Star Graphs of Protein Sequences and Proteome Mass Spectra in Cancer Prediction. Current Proteomics, Vol 6(4), pp 275–288. ISSN 1570-1646. 2009. **JCR 3.119. SJR 0.207. Q4.**

15. Vanessa Aguiar-Pulido, José A. Seoane, **Ana Freire**, Cristian R. Munteanu. Data mining in complex diseases using Evolutionary Computation. Lecture Notes in Computer Science - Bio-Inspired Systems: Computational and Ambient Intelligence, Vol. 5517, pp 917-924. ISSN 0302-9743. 2009. **SJR 0.336.**

NON-INDEXED PUBLICATIONS

16. Irati Zubizarreta et **al**. The Sys4MS project: Personalizing health care in Multiple Sclerosis using systems medicine tools. European Committee for treatment and research in multiple sclerosis. ECTRIMS 2018.

17. Diana Ramírez-Cifuentes and **Ana Freire**. UPF's Participation at the CLEF eRisk 2018: Early Risk Prediction on the Internet. Conference and Labs of the Evaluation Forum. CLEF 2018.

18. **Ana Freire**, Aurelio Ruiz-Garcia and Verónica Moreno. Wisibilízalas: Promoting the Role of Women in ICT among Secondary School Students. In Proc. of 1st International Conference on Gender Research (ICGR). 2018.

19. **Ana Freire**, Joaquim Puntí-Vidal, Montserrat Pàmias-Massana and Michele Trevisiol. Suicide 2.0: Tracking Online Symptoms to Detect Suicidal Behaviour. Salut Mental 4.0. Les noves tecnologies aplicades a la recerca i tractament en Salut Mental. Quart Seminari de la CORE en Salut Mental. 2017.

20. Akshay K. Chaturvedi, Filipa Peleja and **Ana Freire**. Recommender System for News Articles using Supervised Learning. arXiv:1707.00506. 2017.

21. Francesco Ronzano, **Ana Freire**, Diego Saez-Trumper, and Horacio Saggion. Making Sense of Massive Amounts of Scientific Publications: The Scientific Knowledge Miner Project. In Proc. of the Joint Workshop on Bibliometric-enhanced Information Retrieval and Natural Language Processing for Digital Libraries (BIRNDL), pp. 36-41. 2016.

22. **Ana Freire**, Mateo Manca, Diego Saez-Trumper, David Laniado, Ilaria Bordino, Francesco Gullo and Andreas Kaltenbrunner: Graph-Based Breaking News Detection on Wikipedia. In Proc. of the Workshops of the 10th International AAAI Conference on Web and Social Media Wiki: Technical Report WS-16-17. Cologne (Germany). 2016.

23. Aurelio Ruiz-Garcia, Laia Subirats and **Ana Freire**. Lessons learned in promoting new technologies and engineering in girls through a girls hackathon and mentoring. In Proc. of EDULEARN 2016 – 8th Annual International Conference on Education and New Learning Technologies. 2016.

24. Sabela Ramos, Susana Ladra, **Ana Freire**, Verónica Bolón-Canedo, Beatriz Remeseiro, José M. Andión and Laura M. Castro. WikinformáticA: visibilización del papel de la mujer en las nuevas tecnologías y promoción de la ingeniería en informática entre las estudiantes de secundaria. In *Actas de las XXI Jornadas de la Enseñanza Universitaria de la Informática*, pp. 113-120. Universitat Oberta La Salle. 2015.

25. **Ana Freire**, Craig Macdonald, Nicola Tonellotto, Iadh Ounis and Fidel Cacheda. Towards 2015. Green Information Retrieval: Studying the Suitability of Queueing Theory in Reducing Power Consumption. In Proc. of CERI 2014 - 3rd Spanish Conference on Information Retrieval. 2014.

26. **Ana Freire**, Fidel Cacheda, Vreixo Formoso, and Víctor Carneiro. Analysis of performance evaluation techniques for large-scale information retrieval. In Proc. of International Workshop on Large-Scale and Distributed Systems for IR. 2013.

27. **Ana Freire**, Vanessa Aguiar-Pulido, Juan R. Rabuñal and Marta Garrido. Algoritmo genético de evolución diferencial con longitud variable para la predicción del caudal generado por lluvia en una cuenca artificial. In Proc. of MAEB 2010 - 7th Congreso Español sobre Metaheurísticas, Algoritmos Evolutivos y Bioinspirados. (pp. 473- 479) ISBN 978-84-92812-58-5. 2010.

28. Vanessa Aguiar-Pulido, José A. Seoane, **Ana Freire**, Humberto González-Díaz, A. Duardo-Sanchez, Julián Dorado, Alejando Pazos and Cristian R. Munteanu. New Markov-Randic Centralities for

Computational Methods of Biology, Parasitology, Technology, Social and Law Networks. In Proc. of ICCMSE -International Conference of Computational Methods in Sciences and Engineering. 2010.

29. Vanessa Aguiar-Pulido, José A. Seoane, **Ana Freire**, Marcos Gestal and Ling Guo. Iterative Rule Learning Genetic Algorithm Approach Applied to Association Studies of Complex Diseases. In Proc. of the 2nd Bioinformatics Galician Workshop. 2009.

30. **Ana Freire**, José A. Seoane, Vanessa Aguiar-Pulido, Juan R. Rabuñal. Protein identification over 2D gel images using computer vision techniques. In Proc. 2nd Bioinformatics Galician Workshop. 2009.

BOOKS AND BOOK CHAPTERS

BOOK EDITIONS

1. Jordi Aguiló, **Ana Freire**, Diana de la Iglesia, Victoria López and Alejandro Pazos. Líneas estratégicas de las tecnologías de la información y las comunicaciones en salud. Ed: Ciencia Y Tecnología para El Desarrollo CYTED. ISBN: 978-84-15413-18-1. 2013.
2. Jordi Aguiló, Albert Figueras, **Ana Freire**, Diana de la Iglesia, Fernando Martín and Alejandro Pazos. Tecnologías NBIC en salud. El papel protagonista de la Nanociencia. Aplicación de especial interés al cáncer colorrectal. Ed: Ciencia Y Tecnología para El Desarrollo CYTED. ISBN: 978-84-15413-15-8. 2012.
3. Jordi Aguiló, Albert Figueras, **Ana Freire**, Diana de la Iglesia, Fernando Martín and Alejandro Pazos. Nano, Bio, Info Y Cogno - Convergencia de Tecnologías NBIC. Conceptos y aplicaciones. Redes CYTED Nanoroadmap e Ibero-NBIC. Ed: Ciencia Y Tecnología para El Desarrollo CYTED. ISBN: 978-84-15413-00-4. 2011.
4. Jordi Aguiló, Albert Figueras, **Ana Freire**, Fernando Martín, Cristian R. Munteanu and Alejandro Pazos. Nuevas fronteras tecnológicas. Redes Nanoroadmap e Ibero-NBIC. Ed: Ciencia Y Tecnología para El Desarrollo CYTED. ISBN: 978-84-96023-82-6. 2010.

BOOK CHAPTERS

1. Diana De La Iglesia, Miguel García-Remesal, Guillermo De La Calle, David Pérez-Rey, **Ana Freire**, Víctor Maojo. Retos actuales en el acceso y la gestión de la información biomédica. Líneas estratégicas de las tecnologías de la información y las comunicaciones en salud. ISBN: 978-84-15413-18-1. 2013.
2. **Ana Freire**, José A. Seoane, Carlos Fernández- Lozano, Cristina Ruiz-Romero, Julián Dorado, Alejandro Pazos. La proteómica en el estudio del cáncer colorrectal y otros tipos de tumores. Tecnologías NBIC en salud. El papel protagonista de la Nanociencia. Aplicación de especial interés al cáncer colorrectal. ISBN: 978-84-15413-15-8. 2012.
3. **Ana Freire**, Vanessa Aguiar-Pulido, Juan R. Rabuñal, Ana B. Porto-Pazos and Javier Pereira. Extracción de información mediante computación evolutiva. Nano, Bio, Info Y Cogno - Convergencia de Tecnologías NBIC. Conceptos y aplicaciones. Redes CYTED Nanoroadmap e Ibero-NBIC. ISBN: 978-84-15413-00-4. 2011.
4. Vanessa Aguiar-Pulido, José A. Seoane, **Ana Freire** and Ling Guo. GA-based Data Mining applied to genetic data for the diagnosis of complex diseases. Soft Computing Methods for Practical Environment Solutions: Techniques and Studies. 220-240. 10.4018/978-1-61520-893-7.ch014. 2010.
5. **Ana Freire**, José A. Seoane and Julián Dorado. Aplicación de técnicas computacionales al análisis de imágenes de geles 2D. Nuevas fronteras tecnológicas. Redes Nanoroadmap e Ibero-NBIC. ISBN: 978-84-96023-82-6. 2010.

PATENTS

Title: Molecular Block-Matching Method for Gel Image Analysis.
Authors: Alejandro Pazos Sierra; Julián Dorado de la Calle; Francisco Blanco García; Juan Ramón Rabuñal Dopico; Cristina Ruiz Romero; José Antonio Seoane Fernández; **Ana María Freire Veiga**; Alvaro Rodriguez Tajes; Carlos Fernández Lozano; Enrique Fernández Blanco; Javier Pereira Loureiro; Cristian Munteanu; Ana Belén Porto Pazos.
Reference Number: US 8,897,536 B2.
Country: United States of America.
Date: 11/25/2014.

Title: Recommendation method and system.
Authors: Fidel Cacheda Seijo; Víctor Manuel Carneiro Díaz; Vreixo Formoso López; Diego Fernández Iglesias; **Ana María Freire Veiga**.
Reference Number: US 2012/0310770 A1.
Country: United States of America.
Date: 12/06/2012.

Title: *Software para la identificación de proteínas mediante análisis de imágenes de geles 2D.*
Authors: Julián Dorado de la Calle; Alejandro Pazos Sierra; Javier Pereira Loureiro; Juan Ramón Rabuñal Dopico; José Antonio Seoane Fernández; **Ana María Freire Veiga**; Álvaro Rodríguez Tajes; Enrique Fernández Blanco.
Reference Number: C-532-2009.
Country: Spain.
Date: 12/11/2009

PROJECTS

Title: *Sys4MS: Personalizing health care in Multiple Sclerosis using systems medicine tools.* **Funding entity**: European Union (JTC1_43). **Principal Researcher**: Pablo Villoslada. **From**: 01/05/2016 - **To**: 30/04/2019. **Funding**: 1,724,000€. **Role**: researcher.

Title: *DTIC-MdM Strategic Program: Data-Driven Knowledge Extraction.* **Funding entity**: Maria de Maeztu Units of Excellence Programme (**Spanish Government**) MDM-2015-0502. **Principal Researcher**: Xavier Serra. **From**: 01/01/2017 - **To**: 12/31/2019. **Funding**: 2,000,000€. **Role**: researcher.

Title: *DECODE - Social Sensors for security Assessments and Proactive Emergencies management.* **Funding entity**: European Union (FP7-SEC-2013-1). **Principal Researcher**: Francesca Bria. **From**: 01/04/2014 - **To**: 31/03/2017. **Funding**: 3,117,318€. **Role**: advisor.

Title: *TYPES - Towards transparencY and Privacy in the onlinE advertising businesS.* Funding entity: European Union 653449 (H2020-DS-2014-1). Principal Researcher: Ricardo Baeza. From: 05/01/2015 - **To**: 10/31/2017. **Funding**: 3,992,664€. **Role**: product manager.

Title: *SUPER - Social Sensors for security Assessments and Proactive Emergencies management.* **Funding entity**: European Union 606853 (FP7-SEC-2013-1). **Principal Researcher**: Marco Cosentino et al. **From**: 04/01/2014 - **To**: 03/31/2017. **Funding**: 3.117.318€. **Role**: researcher.

Title: *Ayudas para la consolidación y estructuración de unidades de investigación competitiva. Modalidad de agrupaciones estratégicas (CITIC).* **Funding entity**: Xunta de Galicia (**Galician Government**). **Principal Researcher**: Bertha Guijarro Berdiñas. **From**: 01/01/2012 - **To**: 12/31/2013. **Funding**: 500,000€. **Role**: researcher.

Title: *Modelos y técnicas para la construcción de aplicaciones "Mashup" basadas en inteligencia colectiva.* **Funding entity**: Spanish Government. **Principal Researcher**: Víctor Manuel Carneiro Díaz. **From**: 01/01/2010 - **To**: 12/31/2013. **Funding**: 67,760€. **Role**: researcher.

Title: *Red Iberoamericana de Tecnologías Convergentes NBIC en Salud (IBERO-NBIC).* **Funding entity**: *Programa Iberoamericano de Ciencia y Tecnología para el desarrollo* (CYTED). **Principal Researcher**: Alejandro Pazos Sierra. **From**: 01/01/2009 - **To**: 12/31/2012. **Funding**: 116,000€. **Role**: researcher.

Title: Red Gallega de Bioinformática. **Funding entity**: Xunta de Galicia (**Galician Government**). **Principal Researcher**: David Posada González. **From**: 01/01/2010 - **To**: 12/31/2011. **Funding**: 120,000€. **Role**: researcher.

Title: *PHR2.0: Registro Personal de Salud en web 2.0.* **Funding entity**: Spanish Government. **Principal Researcher**: Alejandro Pazos Sierra. **From**: 10/01/2009 **To**: 09/30/2011. **Funding**: 119,951€. **Role**: researcher.

Title: Red Gallega de Bioinformática. **Funding entity**: Xunta de Galicia (**Galician Government**). **Principal Researcher**: Alejandro Pazos Sierra. **From**: 01/01/2007 - **To**: 12/31/2009. **Funding**: 180,000€. **Role**: researcher.

INVITED TALKS

Barcelona Graduate School of Mathematics - International Women and Girls Science Day
Institut d'Estudis Catalans – February 9, 2018

Science Coffee - International Women and Girls Science Day
Casa Orlanday – February 12, 2018

BIYSC 2017 Barcelona International Youth Science Week
Fundaciò Catalunya La Pedrera (Barcelona, Spain) – July 20, 2017

Vespres COEINF
Mobile Word Centre (Barcelona, Spain) – June 29, 2017

Big Data Round Table: ICT day 2017
Mobile World Centre (Barcelona, Spain) - May 17, 2017

Women Who Code: What is Tech? Data Science.
Skyscanner (Barcelona, Spain) – February 15, 2017.

Panel Women in Design and Tech Leadership Forum
IED (Superior Design School) (Barcelona, Spain) – July 6, 2016.

Towards Green Information Retrieval
High Performance Computing Lab (Pisa, Italy) - National Research Council of Italy – July 18, 2014.

Scheduling queries across distributed and replicated IR systems
High Performance Computing Lab (Pisa, Italy) - National Research Council of Italy – April 24, 2013.

Studying the suitability of virtual environments for representing real Information Retrieval systems
University of Glasgow (UK) – March 18, 2012.

Biomedical Informatics Training.
Centro hospitalario universitario de A Coruña (CHUAC) – September 30, 2009.

III International Workshop for the dissemination of the research activity.
Universidade da Coruña – March 23, 2009.

INTERNSHIPS

Weill Cornell Medicine

Country: United States

From: TBD (2019)

Weeks: 12

Topic: Improving clinical diagnosis of monogenic disorders through ML.

Yahoo! Research Barcelona

Country: Spain

From: 05/01/2014 - To: 08/01/2014

Weeks: 13

Topic: Green Distributed Web Search.

National Research Council of Italy (ISTI-CNR)

Country: Italy

From: 01/04/2013 - To: 08/01/2013

Weeks: 17

Topic: Power Consumption of Large-Scale Search Engines

University of Glasgow

Country: United Kingdom

Dates: 01/07/2012 - To: 03/07/2012

Weeks: 12

Topic: Scheduling in Distributed Web Search.

RESEARCH COMMITTEES

JOURNALS

Artificial Intelligence in Medicine
Role: reviewer. Year: 2018

Information Systems Frontiers
Role: reviewer. Year: 2016

IJUFKS - International Journal of Uncertainty, Fuzziness & Knowledge-Based Systems
Role: reviewer. Year: 2016

JUCS - Journal of Universal Computer Science
Role: reviewer. Year: 2015

IEEE Transactions on Evolutionary Computation
Role: reviewer. Year: 2010

CONFERENCES

SIGIR 2018 – ACM SIGIR Conference on Research and Development in Information Retrieval
Role: PC member. Year: 2018

MIDAS 2017 – 2nd Workshop on mining data for financial applications
Role: PC Member. Year: 2016

SIGIR 2016 – ACM SIGIR Conference on Research and Development in Information Retrieval
Role: Demo Chair. Year: 2016

WWW2016 - 25th World Wide Web Conference
Role: Reviewer. Year: 2016

CERI 2014 – Spanish Information Retrieval Conference
Role: reviewer. Year: 2014

CIKM 2013 - 22nd ACM Conference on Information and Knowledge Management
Role: reviewer. Year: 2013

IWANN 2011 - International World Conference on Artificial Neural Networks
Role: reviewer. Year: 2011

TEACHING EXPERIENCE

The candidate has taught more than 800 hours.

Universitat Pompeu Fabra

Barcelona, 2015 – Currently

Web Intelligence (English) – Coordinator/Theory
Master in Intelligent Interactive Systems

Introduction to Programming (English) – Theory/Labs/Seminars
Data Structures and Algorithms, I – Labs/Seminars
Degree in Mathematical Engineering in Data Science – 1st year
Degree in Telecommunications Engineering - 1st year
Degree in Audiovisual Communication - 1st year
Degree in Computer Science - 1st year

Information Technologies – Coordinator/Theory/Labs/Seminars
Degree in Computer Science - 2nd year

Networking Protocols and Services – Theory/Labs/Seminars
Degree in Telecommunications Engineering - 2nd year
Degree in Audiovisual Communication - 2nd year

Data Structures and Algorithms – Theory/Labs/Seminars
Degree in Computer Science - 2nd year

Universidade da Coruña

A Coruña, 2010 – 2015

Information Retrieval – Theory/Labs/Seminars
Master of Computer Science

Basics of Informatics – Theory/Labs/Seminars
Degree in Computer Science – 1st year

Communications Network – Labs
Degree in Computer Science – 2nd year

Networking – Labs
Computer Science Engineering – 5th year

Spanish Army
(Antonio Escaño School)

A Coruña, 2013-2015

Networking Management - Theory

Master in ICT

THESIS SUPERVISION

Title: Preventing suicide using social media.
Studies: PhD in Computer Science (Universitat Pompeu Fabra, Barcelona, Spain)
Student: Diana Ramírez
Year: 2018-…
Qualification: In Progress

Title: Early Risk Detection of Anorexia in Social Media.
Studies: Master in Intelligent Interactive Systems (Universitat Pompeu Fabra, Barcelona, Spain)
Student: Marc Mayans
Year: 2018
Qualification: 9.5/10

Title: Towards Suicide Prevention: early detection of depression on social media.
Studies: Master in Intelligent Interactive Systems (Universitat Pompeu Fabra, Barcelona, Spain)
Student: Víctor Leiva
Year: 2016
Qualification: 9/10

Title: Methodology for detecting suicidal behavior on Social Media.
Studies: Master in Intelligent Interactive Systems (Universitat Pompeu Fabra, Barcelona, Spain)
Student: Sofija Milunov
Year: 2016
Qualification: 7/10

Title: Towards Semantic Access to Scientific Publications.
Studies: Master in Intelligent Interactive Systems (Universitat Pompeu Fabra, Barcelona, Spain)
Student: Asier Aduriz
Year: 2016
Qualification: 9/10

Title: Recommender System for News Articles using Supervised Learning.
Studies: Master in Intelligent Interactive Systems (Universitat Pompeu Fabra, Barcelona, Spain)
Student: Akshay Kumar
Year: 2016
Qualification: 7/10

Title: Aplicación para la gestión y difusión de listas de regalos siguiendo el modelo de red social.
Studies: Computer Science Engineering (Universidade da Coruña, Spain)
Student: María Torreiro
Year: 2001-2012
Qualification: 9,5/10

Title: Evolución Diferencial: nuevas aproximaciones y aplicación en hidrología.
Studies: Computer Science Engineering (Technical Degree) (Universidade da Coruña, Spain)
Student: Fernando García
Year: 2001-2012
Qualification: 9/10

TEACHING RELATED ACTIVITIES

LECTURES FOR NON-UNIVERSITARY STUDENTS

Barcelona International Summer School
Role: Lecturer. Location: Universitat Pompeu Fabra, Barcelona (Spain). Date: July 2018

Campus Junior 2018: Girls in Data Science
Role: Organiser/Lecturer. Location: Universitat Pompeu Fabra, Barcelona (Spain). Date: July 2018

Campus Junior 2017: Girls in Data Science
Role: Organiser/Lecturer. Location: Universitat Pompeu Fabra, Barcelona (Spain). Date: July 2017

ESCOLAB 2017
Role: Trainer. Location: Universitat Pompeu Fabra, Barcelona (Spain). Date: July 2016

COMMITTEES

Support Plan for Quality and Innovation in Learning and Knowledge - PlaCLIK 2016-2017
Role: Evaluator. Universitat Pompeu Fabra, Barcelona (Spain). Year: 2016-2017

Thesis Committee of the Master in Intelligent Interactive Systems
Role: Evaluator. Universitat Pompeu Fabra, Barcelona (Spain). Year: 2016-2017

Thesis Committee of the Degree in Computer Science
Role: Evaluator. Universitat Pompeu Fabra, Barcelona (Spain). Year: 2016-2017

SYMPOSIA

Symposium on Teaching, Innovation & Quality
Role: Speaker. Universitat Pompeu Fabra, Barcelona (Spain). Date: March 17, 2017

MENTORSHIP

MENTOS Mentoring Female Engineering Students
Role: Mentor. Universitat Pompeu Fabra, Barcelona (Spain). Year: 2017 – 2018

MENTOS Mentoring Female Engineering Students
Role: Mentor. Universitat Pompeu Fabra, Barcelona (Spain). Year: 2016 - 2017

CERTIFICATIONS
Assistant Certificate (In Spain: *Ayudante Doctor*; in Catalonia: *Lector*)
Spanish University Quality Assurance Agency (ANECA)
Galician University Quality Assurance Agency (ACSUG)

Associate Certificate (In Spain: *Contratado Doctor*; in Catalonia: *Agregado*)
Spanish University Quality Assurance Agency (ANECA)

SERVICES
Promotor of the Degree in Mathematical Engineering in Data Science
Universitat Pompeu Fabra (Barcelona, Spain), 2016-2018

EVENTS ORGANIZATION

R&D

ESSIR 2017 – 11th European Summer School in Information Retrieval
Role: Co-chair. Location: Barcelona (Spain). Date: December 2016
URL: eventum.upf.edu/go/essir2017

ICDM 2014 - IEEE International Conference on Data Mining
Role: Publicity/ Web&Social Media Chair. Location: Barcelona (Spain). Date: December 2016
URL: https://icdm2016.eurecat.cat/

CERI 2014 - Congreso Español de Recuperación de Información
Role: Local Committee. Location: A Coruña (Spain). Date: June 2014
UR: http://ceri2014.udc.es/

Ibero-NBIC Network (Coordination Meeting)
Role: Organizer. Location: Buenos Aires (Argentina). Date: November 2012

Ibero-NBIC Network (Coordination Meeting)
Role: Organizer. Location: Aveiro (Portugal). Date: October 2011

II International Workshop: NanoroadMap e Ibero-NBIC Networks
Role: Organizer. Location: Cancun (Mexico). Date: November 2010

Biomedical Research Networks - Coordination and Training meeting
Role: Local Committee. Location: Dodro (Spain). Date: 2008

Conference of the Galician Colorectal Cancer Research Network
Role: Local Committee. Location: Dodro (Spain). Date: 2008

WOMEN IN ICT

Wisibilízalas 2nd Edition (National High-School Contest)
Role: Organizer. Location: Barcelona (Spain). Date: 2017-2018
URL: https://www.upf.edu/web/wisibilizalas

Women Tech SUMMIT
Role: Organizer. Location: Barcelona (Spain). Date: April 2017

International Women and Girls Science Day
Role: Organizer. Location: Barcelona (Spain). Date: February 2017
URL: https://www.youtube.com/watch?v=ihnfxjquOpA

Wisibilízalas 1st Edition (National High-School Contest)
Role: Organizer. Location: Barcelona (Spain). Date: 2016-2017
URL: https://www.upf.edu/web/wisibilizalas

Girls Hackathon
Role: Mentor. Location: Barcelona (Spain). Date: 2016

Wikinformática
Role: Organizer. Location: A Coruña (Spain). Date: 2015
URL: https://wiki.fic.udc.es/semanaanitaborg/

AWARDS AND GRANTS

AWARDS

Quality Teaching Awards (1st Prize)
Given by: Universitat Pompeu Fabra, Barcelona (Spain)
Date: 2017

Equit@T (Honorable Mention)
Given by: Col·legi Oficial d'Enginyeria en Informàtica (COEINF), Barcelona (Spain)
Date: 2017

Big Data Talent Awards (1st Prize)
Given by: Big Data CoE Barcelona (Spain)
Date: 2015

Google Anita Borg Scholarship (Finalist)
Given by: Google Inc.
Date: 2012

GRANTS

CASA Fellowship for a postdoctoral research stay at Cornell University
Given by: Consortium for Advances Studies Abroad
Date: 2018

SIGIR 2012 Student Grant
Given by: ACM Special Interest Group on Information Retrieval
Date: 2012

Competitive FPI (Research Staff Grant – PhD Studies)
Given by: Spanish Government
Date: 2010-2014

Pre-doctoral Studies Grant
Given by: University of A Coruña (Spain)
Date: 2009 / 2010

ECIR 2009 Student Grant
Given by: European Conference on Information Retrieval Institution
Date: 2009

COURSES

LANGUAJES

Basic Catalan for Teachers
Organized by: Universitat Pompeu Fabra, Barcelona (Spain). Date: November 2017

Catalan (Level A1.1)
Organized by: Universitat Pompeu Fabra, Barcelona (Spain). Date: November 2017

Italian (Level B2)
Organized by: Official Language School, A Coruña (Spain). Date: June 2015

English (Level B2)
Organized by: Official Language School, A Coruña (Spain). Date: June 2010

French (Level A1.1)
Organized by: Universidade da Coruña (Spain). Date: December 2009

TEACHING

Using Wikipedia for teaching. Learning with collaborative tools
Organized by: Universitat Pompeu Fabra, Barcelona (Spain). Date: February 2017

Interactive presentations with Nearpod
Organized by: Universitat Pompeu Fabra, Barcelona (Spain). Date: November 2016

Students diversity and integration at University
Organized by: CUFIE (University of A Coruña) (Spain). Date: January 2014

Language and gender: social intervention
Organized by: CUFIE (University of A Coruña) (Spain). Date: January 2014

Techniques for speaking in public
Organized by: CUFIE (University of A Coruña) (Spain). Date: December 2013

COMPUTER SCIENCE

(LINQ) C# 3.0
Organized by: University of A Coruña (Spain). Date: May 2009

Scientific meeting about clinical proteomics: from the peptide fingerprint to the tissue image
Organized by: National Institute of Proteomics (Spain). Date: September 2009

Java 2 Enterprise Edition; Data Base access and XML
Organized by: University of A Coruña. Date: October 2007

Advanced Web Design and Adobe Photoshop Image Processing
Organized by: University of A Coruña (Spain). Date: April 2007

OTHERS

Basic training in occupational risk prevention
Organized by: MC Prevención & Universitat Politécnica Catalunya (Spain). Date: September 2014

NEWSPAPERS / MAGAZINES

El Periódico. Cómo potenciar el papel de la mujer en la ciencia. February, 2018.

TELVA Niños. Tú a Medicina y yo a Informática. October, 2017.

El Confidencial. Se buscan mujeres: el proyecto para lograr que las chicas se hagan ingenieras. Nov 2016.

La Voz de Galicia. Google premia a dos alumnas de Informática de A Coruña. April 2012.

El Ideal Gallego. Google premia con el "Anita Borg" a dos estudiantes de doctorado de la facultad de Informática. April 2012.

El Correo Gallego. Dos gallegas brillan en un premio mundial de Google. April 2012.

BLOG INTERVIEWS

Universitat Pompeu Fabra. Nowadays I am more concerned about girls that don't want to study technical degrees. February 2018.

Eurecat Blog. Entrevista con Ana Freire, ganadora del Big Data Talent Awards. November 2016.

Eurecat Blog. Ingenieras de Eurecat en la Girls in Lab. March 2016.

Universitat Pompeu Fabra. Una tesis sobre motores de búsqueda energéticamente eficientes gana la primera edición de los Big Data Talent Awards. November 2015.

RADIO INTERVIEWS

Spain Media Radio (Forbes Radio). Hoja De Router. February 2017.

VIDEO INTERVIEWS

Barcelona Graduate School of Economics. International Day of Women and Girls in Science 2018. Febraury 2018.

Xarxa Punt TIC. MujeresTech Summit 2017. April 2017.

Universitat Pompeu Fabra, Barcelona. Celebración día internacional del día de la mujer y la niña en la ciencia. February 2017.