Margarita Geleta

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PARTICULARS

EDUCATION

2017-present   **Universitat Politècnica de Catalunya (UPC)**
Bachelor of Data Science and Engineering
· Active member in the *Barcelona School of Informatics* (FIB) governance.
· **Courses**: *Data Analysis, Machine Learning, Mathematical Optimization, Deep Learning, Parallelism and Discrete Systems, Database Systems, Information Visualization, Information Retrieval and Analysis, Algorithmics, Statistics.*

RESEARCH INTERESTS

My research interests span the areas of *Data Science* and *Machine Learning*, along with its subdomains *Deep Learning* and *Natural Language Processing* (NLP). I have a specific interest in *Deep Learning* applied to audio & acoustic domain, *Signal Processing*, *Audio Feature Extraction* and *Audio Steganography*. Also, my interests fall in the field of *Sentiment & Toxicity Analysis* and *Hate Speech Detection*.

EXPERIENCE

PROFESSIONAL EXPERIENCE

2019-present   **JEDI Junior Enterprise (JEDI UPC)**

Feb. 2020 - present
   Instructor at Machine Learning and Python course (40 h)

· Adapted the course for online teaching due to the coronavirus pandemic and tutored students through online platforms.
· Adapted materials for a blind student and guided them throughout the course.

Aug. 2019 - present
   Front-end developer

· Programmed the interface of a web-application for *Area Cooling Solutions S.A.* company.
· Overhauled the output of a microcontroller IMU sensor and upgraded the web-application visualizations.

Jun. 2019 - Feb. 2020
   Teaching Assistant at Machine Learning and Python course (40 h)

· Prepared coursework on *Multidimensional Scaling*, *Machine Learning* and *Optimization*.
· Helped students with *Exploratory Data Analysis* in their projects.

May 2020 - Sept. 2020
4 months
   ProxiShop

Co-founder & Developer
· Developed a trading multi-platform e-commerce solution for local farmers and small businesses to reactivate the economy in Catalonia in times of the pandemic and the confinement.
· Presented the project in several startup competitions, among which - *SmartCatalonia Challenge 2020* and *RuralApps 2020*, all of them funded by the Government of Catalonia.
· Joined the 1000 European Initiatives by *Junior Enterprises Europe* (JEE) & *Junior Enterprises Global* (JEG).

RESEARCH EXPERIENCE

Feb. 2021 - present Ongoing	**Bustamante Lab (Stanford University)** *DL Researcher* · Explored novel Deep Learning techniques such as *Variational Autoencoders* (VAEs) with genomic data in a focus in dimensionality reduction, compression, privacy, and data simulation.
Sept. 2020 - Mar. 2021 Ongoing	**Image Processing Group (GPI)** *DSP & DL Researcher* · Implemented classic Audio Steganography methods from the psychoacoustic approach - *LSB algorithm*, *Phase Coding* and *Echo Hiding*. · Investigated Deep Learning architectures for Audio Steganography and trained an Audio Autoencoder using *Short-Time Cosine Transform* for *Audio Feature Extraction*. Got the Extended Abstract accepted to WiCV 2021.

LEADERSHIP & POSITION OF RESPONSIBILITY

2019-present Oct. 2020 - present	**JEDI Junior Enterprise (JEDI UPC)** *President* · Had the honor to present the candidature and receive a prize of €1,000 for the best *Student Association in Education* at the *Polytechnic University of Catalonia* (UPC). · Arranged collaborations with other associations from the *Polytechnic University of Catalonia* (UPC) and with organizations from the JE Network, at National and European levels, such as CEJE - the *Spanish Confederation of Junior Enterprises*, and *Junior Enterprises Europe* (JEE).
Sept. 2019 - Oct. 2020	*Vice-President & Secretary* · Directed the organization of JEDI Academy courses, winter edition 2020. · Organized bimonthly workshops on Tech topics with +20 attendees at the *Barcelona School of Informatics* (FIB). Ran introductory R language workshop. · Represented the Junior Enterprise in several Tech & startup events, such as *Tech Spirit Barcelona* and *SmartMobility Congress*.
2018-present Nov. 2020 - present	**FIB Visiona** *President & Main Organizer* · Directed 4-people team for the first online edition of the FIB Visiona career fair with more than 150 attendees, 40 recruiters and €12,000 in sponsorships raised. · Directed 10-people team for the second online edition of the FIB Visiona career fair with more than 150 attendees, 12 companies, 75 recruiters and €23,000 in sponsorships raised.
Oct. 2018 - present	*Co-founder & ExBo Member* · Co-founded FIB Visiona association, in charge of connecting UPC students with Tech companies. · Directed 10-people team for the first edition of the FIB Visiona career fair with more than 200 attendees, 126 recruiters and €100,000 in sponsorships raised.
2017-present Oct. 2018 - present	**Universitat Politècnica de Catalunya (UPC)** *Student representative at the Standing Committee* · Elected by *Barcelona School of Informatics'* Board members. The Standing Committee is the executive and permanent representative of the School Board. · My responsibilities included discussing the most important decisions of the School.
Oct. 2018 - present	*Student representative at the School Board*

	· Elected by *Barcelona School of Informatics'* student body. The School Board is the governing body of the School.
	· My main responsibility was to represent the opinion of all the students from the School.
Oct. 2017 - Mar. 2019	*Student representative at CAGCED*
	· Member and first student representative at the *Academic Committee of the Data Science and Engineering Degree* (CAGCED).
2020 Sept. 2020 - Nov. 2020	**Junior Enterprises Global (JEG)**
	Partnerships Manager
	· Worked on the Value Proposition, support documents and contact list.

ACTIVITIES

2017-2020 Oct. 2018 - Nov. 2020	**Universitat Politècnica de Catalunya (UPC)**
	Member of the Barcelona School of Informatics Student Delegation (DEFIB)
	· Active member at the *Communication Commission*.
	· Designed posters to highlight the contributions of female scientists and engineers, which now remain at the School's Museum.
Oct. 2017 - May 2018	*Member of the TelecomBCN Student Delegation (DAT)*
	· Of the *Barcelona School of Telecommunications Engineering* (ETSETB).

VOLUNTEERING

2019-2020 Mar. 2019 - Feb. 2020	**HackUPC**
	Designer & Organizer
	· Led brand redesign in 30-person team for HackUPC 2019, Spain's largest student hackathon with 700 attendees. Designed web, merchandising and social network post templates.
2018-2019 Summer 2019	**Universitat Politècnica de Catalunya (UPC)**
	Volunteer at the Summer Course of Algorithmics and Programming
	· Assisted teenagers with learning C++ and Python and monitored the visit to the School's Museum.
Autumn 2019	*Coach & Mentor*
	· Finished a *Coaching and Mentoring course* (10 h) at the *Polytechnic University of Catalonia* to become a mentor of Data Science & Engineering degree freshmen for seven weeks.
Summer 2018	*Volunteer at the Summer Course of Algorithmics and Programming*
	· Assisted teenagers with learning C++ and Python and monitored the visit to the *Marenostrum 4* Supercomputer at the *Barcelona Supercomputer Center* (BSC).

RELEVANT PROJECTS

Nov. 2020 2 weeks	**Forbidden Territories**
	Data Scientist & Developer
	· Created a NLP multilingual model (7 languages) with contextual embeddings which detected sections in lyrics which had a high probability of being censored.
	· Developed a web-application with *Lyric Censorship Analyzer* model deployment.

· Presented this project at the Sónar+D Innovation Challenge 2020.

Mar. 2020	**ConfinApp Commerce**
1 week	*Front-end developer*
	· Designed a mobile application to promote the proximity commerce during the first stage of the confinement. This project has been one of the highlighted projects of Hackovid, a hackathon by the Government of Catalonia.

HONORS & AWARDS

2021	CS Department Dean's Fellowship for AY 21/22, Donald Bren School of Information and Computer Sciences - in recognition of outstanding research potential.
2021	Fellowship for CS Ph.D. program by the Department of Computer Science, UC Irvine.
2020	Nominated for the *Dona TIC Award* (2nd place), as a recognition for my contributions to the STEM world of new technologies and as a role model to young women.
2018	Received a *"Matricula de Honor"* academic honor for obtaining a 10/10 in the Parallelism and Distributed Systems course.
2017	Awarded for the Best High School research project in *La Selva* about video game development, at the *"IV Mostra de Treballs de Recerca"*.
2017	Finished High School with Honors (*"Matricula de Honor"* academic honor).

PUBLICATIONS

[1] Costa-jussà, M.R., Geleta, M., et al. *MT-Adapted Datasheets for Datasets: Template and Repository.* arXiv:2005.13156 preprint, 27th May 2020.

TECHNICAL SKILLS

Programming	C++, C, C#, Python, R, Dart.	**Scripting**	JS, PHP, Bash.
Markup	HTML5, CSS3.	**Frameworks**	Django, Flutter, ReactJS.
Databases	PostgreSQL, SQLite.		

LANGUAGES

Spanish, Catalan & Russian: native.
English: proficient in spoken and written English. TOEFL iBT (Score 101), *November 2020*.
Appointment number: 9733 7112 0335 0471.