

Personal Data

Last and First Name: Moresi, Marco

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Academic Record

2019: Masters in Computer Science¹, Facultad de Matemática, Astronomía, Física, y Computación (FAMAF), Universidad Nacional de Córdoba (UNC). Córdoba, Argentina. Thesis Director: Dr. Benotti Luciana, MSc. Gomez Marcos. Topic of the thesis: Automatic modeling of learning path: When to generate formative feedback for beginners in programming?. Dissertation Mark: To be presented.

2016: Bachelor in Computer Science², Facultad de Matemática, Astronomía, Física, y Computación (FAMAF), Universidad Nacional de Córdoba (UNC).

Research Experience

2018 - now: Member of the research project: "Deep Educational Data Analysis" .Director Dra Luciana Benotti. Begin 2018 Main task: process exercises solutions submitted in a online platform to teach programming. Mumuki. In order to generate automate formative feedback.

2018 - now: Member of the research project: "Automatic dialogue processing to improve task success". Director Luciana Benotti. Begin: 2018: End: 2022. Financed by Secretary of Science and Technology. Universidad Nacional de Córdoba. Resolution SeCyT-UNC 411/18.

2014 - 2016: Outreach program member UNC plus plus:

Teacher assistant at K-12 teacher's development program. The goal of this program is to improve K-12 education for low resource students and teachers.

Optional and Postgraduate courses

2019: Deep Learning Specialization, deeplearning.ai, Andrew Ng (Coursera.org). On going.

2018: Machine Learning by Stanford University on Coursera, Andrew Ng (Coursera.org), Mark obtained 96,1 over 100.

2018: Neural Networks, Francisco Tamarit (FAMAF - Universidad Nacional de Córdoba), FAMAF, Argentina. Mark: 10 over 10.

¹ The Computer Science Masters Degree in Argentina is "*Licenciado en Ciencias de la Computación*"

² The Computer Science Bachelor Degree in Argentina is "*Analista en Ciencias de la Computación*"

2017: Machine Learning for Computer Vision, Jorge Sánchez (FAMAF - Universidad Nacional de Córdoba), FAMAF, Argentina. Mark: 9 over 10.

2017: Distributed Programming on Large Volumes of Data, Damián Barsotti (FAMAF - Universidad Nacional de Córdoba). Mark: 9 over 10.

2016: Consistency under Replication in Distributed Databases. Alejandro Tomsic, (FCEN- Universidad de Buenos Aires).

2016: Hybrid information extraction systems. Pablo Duboue (FCEN- Universidad de Buenos Aires).

Scientific Publications

1. Marco Moresi. Machine Learning applied to predict dropout in programming students. Masters Thesis in Computer Science³, Facultad de Matemática, Astronomía, Física, y Computación (FAMAF), Universidad Nacional de Córdoba (UNC). Córdoba, Argentina. In progress, to be presented.
2. Marcos J. Gómez, Luciana Benotti, Marco Moresi. Block-based programming in elementary school: A comparative study of programming abilities in children with and without block-based experience. Submitted in January 2019 in 24th Annual Conference on Innovation and Technology in Computer Science Education, ITICSE 2019. Approval pending.
3. Marco Moresi. Marcos J. Gómez. 2018 Automated formative feedback generation in teaching Programming applied to Mumuki. Poster published in Primeras Jornadas Argentinas de Didáctica de la Programación (Jadipro). Universidad Nacional de Quilmes
4. M. Cecilia Martinez, Marcos J. Gómez, Marco Moresi y Luciana Benotti. Lessons Learned on Computer Science Teachers Professional Development. Proceedings of the 21th ACM Annual Conference on Innovation and Technology in Computer Science Education. ACM. Arequipa, Perú. 2016. Pages 159-164.

Personal Scholarships and Awards

2018: Completion Master scholarship funded by Google: Workplace: Facultad de Matemática Astronomía Física y Computación. Universidad Nacional de Córdoba.

2016: Outreach scholarship financed by the outreach program UNC plus plus. Universidad Nacional de Córdoba.

2015: Outreach scholarship financed by the outreach program UNC plus plus. Universidad Nacional de Córdoba.

³ The Computer Science Masters Degree in Argentina is “*Licenciado en Ciencias de la Computación*”

Participations at Conferences

June 2018: Participation in “Argentine Conference on Didactics of Programming”. Universidad Nacional de Quilmes, Buenos Aires, Argentina.

July 2016: Participation at “*21th Annual Conference on Innovation and Technology in Computer Science Education*”, Association for Computing Machinery, Arequipa, Perú.

July 2016: “Computer Science Winter Schools” at Facultad de Ciencias Exactas y Naturales - Universidad de Buenos Aires 2016.

University Community Outreach

2018 - now: Teaching Assistant at a Professional Development course for High School teachers in Programming and Computer Science at FAMAFA, Universidad Nacional de Córdoba, in partnership with the National Ministry of Science.

2016 - now: Teaching Assistant at a Professional Development course for High School teachers in Programming and Computer Science at FaMAF, Universidad Nacional de Córdoba, in partnership with Instituto Superior de Estudios Pedagógicos de la Provincia de Córdoba

2016 - now: Teaching Assistant of programming and computer science at secondary schools. National Ministry of Science.

2015 - 2016: University teaching position, Teaching Assistant: at FAMAFA, Universidad Nacional de Córdoba. At the courses Discrete Mathematics I, Introductory Course.

2014 - 2016 University teaching position, Teaching Assistant at Instituto Terciario Simón Bolívar. At the course “Programming III”

Volunteering

2016: Open day of the Universidad Nacional de Córdoba, Oral Dissertation about professional development in Computer Science Degree. FAMAFA - Universidad Nacional de Córdoba

Programming Tools

Languages: Python, C, C++, Scala.

Frameworks: Django, Django Rest, Flask.

Libraries: Scikit-learn, Keras, Tensorflow, OpenCV, NLTK, Pandas, Numpy, Seaborn, Matplotlib.

Misc. Tools: Svn, Git, Jupyter Notebook, Apache Zeppelin.

Corpora and Software Development Projects

2018 - Now: Programmer at Deep Educational Data Analysis.

Using the open web-based coding tool Mumuki, which includes programming exercises and is used by several universities and schools in Argentina, we collected a 1 million entry dataset with students programs in order to build a machine learning model that provides automated formative feedback. <https://mumuki.io/>

2016 - Now: Freelance Developer in SocialBits:

Software developer back end web services. Technologies used: Django, Python, Django Rest and others. <https://www.socialbits.net/>

2016 - 2018: Backend Developer in MuyShopper

Backend developer in MuyShopper. MuyShopper is a web platform designed to compare home appliances prices in different Argentinian online web stores. Technologies used: Python, Django, Scrapy. <https://www.muysshopper.com/>