

Anamaria Irmgard Mojica Hanke

Doctoral Teaching Assistant

Systems and Computing Engineering
Universidad de los Andes
Bogotá, Colombia

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Research Interests

Machine learning techniques, understanding good/best practices on machine learning, deep learning, natural language processing and understanding, data privacy and data analysis.

Education

Ph.D. Student in Engineering (August 2020 – Present)

Universidad de los Andes, Bogotá, Colombia

M.Sc. in Information Engineering (2019)

Universidad de los Andes, Bogotá, Colombia

B.Sc., *Systems and Computing Engineering* (2018)

Universidad de los Andes, Bogotá, Colombia

Research and Academic Experience

Doctoral Research and Teaching Assistant

The Software Design Lab at Universidad de los Andes, Bogotá, Colombia, (August 2020 – Present)

- Course lecturer: **Database transactional systems** (August 2020 – Present).
- Teaching Assistant: **Mobile App Development** (August 2020 – Present).
- Conference paper: **Shallow or Deep? An Empirical Study on Detecting Vulnerabilities using Deep Learning**. Mazuera-Rozo, Alejandro¹ and Mojica-Hanke, Anamaria¹ and Linares-Vásquez, Mario and Bavota, Gabriele. International Conference on Program Comprehension (ICPC), 2021, DOI: 10.1109/ICPC52881.2021.00034.
- Extended abstract/poster: **SeneCare. Supporting Epidemiological Surveillance with a Digital System at Universidad de Los Andes**. Mojica-Hanke, Anamaria and Linares-Vásquez, Mario and Jaller, Catherine and Otalora-González, Germán and Beltrán-Ostos, Adriana. WomENCourage, 2021.

Full-Time Lecturer

Universidad de los Andes, Bogotá, Colombia

- Course lecturer: **Transactional Systems** (August 2019 – July 2020).
- Course lecturer: **Introduction to Programming** (January 2020 – July 2020).
- Course lecturer: **Algorithm and Object-Oriented Programming 2** (August 2019 – December 2019).
- Conference paper: Data showcase: **Hall-of-apps: The Top Android Apps Metadata Archive**. Bello-Jiménez, Laura and Escobar-Velásquez, Camilo and Mojica-Hanke, Anamaria and Cortés-Fernández, Santiago and Linares-Vásquez, Mario. "Hall-of-apps: The top Android Apps

Metadata Achieve.” Published in Proceedings of the 17th International Conference on Mining Software Repositories (MSR), 2020, DOI: 10.1145/3379597.3387497

Master, Undergraduate Research and Teaching

Universidad de los Andes, Bogotá, Colombia

- Master thesis: **ALAS- Intelligent Anomaly Notification System Based on Behavioral Daily Living Activities Patterns**
- Teaching Assistant: **Recommender Systems.**
- Undergraduate thesis: **Taurus – Tool for Detecting Android Components from GUI Using Convolutional Neural Networks.**
- Teaching Assistant: During the undergraduate program. **Transactional Database Systems and Algorithm and Object-Oriented Programming**

Professional Experience and Projects

Project SeneCare. Universidad de los Andes, Bogotá, Colombia, (July 2020 - Present).

Research-consultant, Centro de Excelencia y apropiación en *Big Data y Data Analytics* (CAOBA), Bogotá, Colombia, (February 2018 – May 2019)

- Software: **Priorización de zonas y direcciones a visitar en el proceso de registro empresarial.** (*Prioritization of Zones and Addresses to Visit in the Commercial Registration Process*). Villamil, M and Castellanos, Camilo and Perez, Boris and Moreno, Andres and Peña, Fabian and Mojica Anamaria and Lozano, Fernando
- Software: **Identificación de posibles omisos de las actividades económicas 4711 1 y 6810 y estimación de base gravable para el cálculo del impuesto de ICA.** (*Identification of Potentials Evaders of Economic Activities 4711 1 and 6810, and Estimation of the Taxable Base for the Calculation of the Industrial and Commercial Tax*). Villamil, Maria del Pilar and Lozano, Fernando and Franco, Camilo and Moreno Andres and Castellanos, Camilo and Perez, Boris and Mojica, Anamaria and Peña, Fabian and Ortiz, J and Alonso, J.
- Software: **Modelo de identificación de potenciales omisos de la actividad económica 471 1 usando clústering jerárquico.** (*Identification Model of Possible Tax Evaders of the Economic Activities 4711 1 and 6810 using Hierarchical Clustering*). Villamil, Maria del Pilar and Moreno, Andres and Castellanos, Camilo and Perez, Boris and Mojica, Anamaria and Peña Fabian and Ortiz, J and Alonso, J.

Intern in Data Analysis - Operational Risk Department, Banco de la República de Colombia, Bogotá, Colombia, (January 2017 – July 2017)

Honors & Awards

3rd Place at Exposition of first-year undergraduate projects at Uniandes. Universidad de Los Andes, 2014. “Share my ride,” a project to share a Taxi in Bogotá.

Languages

Spanish: Mother tongue

English: Proficient