Andrés Santiago Martínez Hernández

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EDUCATION

2021-   Engineer's degree, Computational and software engineering, Universidad de los Andes
                Colombia (GPA 4.01, min 0, max 5.0)
2019-   Engineer's degree, Biomedical engineering, Universidad de los Andes Colombia
                (GPA 4.01, min 0, max 5.0)

2022   Summer school at Neuromatch Academy: Computational Neuroscience course and
                project.

2022   Introduction to complexity, Santa Fe institute

WORK EXPERIENCE

2022-   Associate at blancLabs (Apprenticeship)
2022-   RA for Pablo Arbelaez Escalante at Pontificia Universidad Javeriana: X-Ray
                classification for the detection of osteosarcoma: algorithm and database construction.
2022-   RA for Luis Felipe Giraldo at Universidad de los Andes: Energetic potential analysis
                by predicting GHI index with contrasting LSTM-GNN, DeepMap and concatenated
                LSTM methodologies
2022-   RA for Mauricio Santos de la Vega at Universidad de los Andes: Harmonize Project
                (Automated thematic clustering)

AWARDS AND SCHOLARSHIPS

2019   First place, ExpoAndes engineering projects fair at the field of health, Universidad de los
            Andes, Colombia
2020   Microsoft & Ministerio de tecnología: Building solutions of AI with Microsoft Azure (full
            scholarship for the program)
2021   Start Fellowship program, START Global Schweizerisches Institut für Klein- und
                Mittelunternehmen Universität St.Gallen
2022   "Vamos pa' lante" scholarship to finance undergraduate degree
2022   Google cloud: Computing foundations: Cloud computing fundamentals (full scholarship for
                the program)

CONFERENCES, WORKSHOPS, OTHER RESEARCH ACTIVITIES

2019   Make Health Colombia (attended)
2021   BRAIN Chile (poster presented)
2021   Start Fellowship (poster presented)
2022   Colombia 4.0 (attended)
2022   JUMP Chile (poster presented)

TALKS

Cell reprograming to recover youthful epigenome over rat optical nerve, Universidad de los Andes
2022, Bogotá, Colombia.

Biological neurons and their relationship with NN: Synthetic Biological Intelligence, Universidad de los Andes 2022, Bogotá, Colombia

An introduction to artificial intelligence with Python, Universidad Francisco José de Caldas, 2022, Bogotá, Colombia.

Accuracy assessment of an adapted SLAM algorithm vs LiDAR, A monoscopular odometry application for robot navigation, GISDay Universidad Francisco José de Caldas, 2022, Bogotá, Colombia

TEACHING EXPERIENCE

2020	TA of BA course "Principles of Neuroscience" Universidad de los Andes, department of Psychology
2020-2022	TA of BSc course "Introduction to programming in python" Universidad de los Andes, department of software engineering
2022-	TA of masters' degree course "Models of market decision making" Universidad de los Andes, Artificial Intellige nce, and data analytics mastery.
2022	TA of course "Algorithmical thinking" with Secretaría de educación distrital de Bogotá and Universidad de los Andes

RELEVANT EXTRACURRICULAR EXPERIENCE

2020-	Member of the Uniandes neuroscience seminars: attendee and presenter in three occasions.
2021-	Member of the Analytics club, Universidad de los Andes
2021-	Computer Vision leader of the university robotics club *Robocol* including the participation in challenges such as the University Rover Challenge (URC) and European Rover Challenge (ERC).
2022-	Volunteer at Neuroscience and behavior laboratory at Universidad de los Andes
2022-	Member of the Mathematical and computational biology (BIOMAC) research group at Universidad de los Andes (CV and automation of thematic clustering)

COMPUTING SKILLS

Python	advanced (AI + DSc)
Git	intermediate
R	intermediate
Java	intermediate
ROS (Humble)	basic
SQL	basic
C	basic

LANGUAGE SKILLS

Spanish	native
English	fluent