

Olivia Hosie Echeverri

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PROFILE

Summa Cum Laude Biomedical Engineer from the University of Los Andes. One year as a research assistant in the Biomedical Computer Vision (BCV) group. One semester of participation in the GINIB research group. Teaching assistant for scientific programming courses using Python.

Summa Cum Laude Designer from the University of Los Andes. One year as a teaching assistant in creative programming courses using Processing.

Skills

- Leadership and project structuring
- Strong commitment to tasks, even when not personally passionate
- Methodical approach
- Creative problem-solving
- Excellent verbal communication and public speaking skills
- Image Processing
- Sensitivity for conceptualization
- High degree of empathy
- Digital design and basic 3D modeling

EXPERIENCE

Universidad de los Andes, Bogotá Colombia

Teaching Assistant | Undergraduate Design Course: Studio 4 – Digital Generations | 2025 – 2

Course focused on enabling students to connect children with limited access to technology through physical computing experiences, aiming to reduce digital literacy gaps in Colombia.

Universidad de los Andes, Bogotá Colombia

Exhibition Assistant | Los Tiempos de la Escucha Exhibition | 2025 – 1

Exhibition centered on listening, memory, and reconciliation, built from the testimonies and experiences of four textile collectives of women victims of the armed conflict in Colombia. Contributed to the adaptation and installation of the second edition at the Centro de Memoria, Paz y Reconciliación in Bogotá.

Universidad de los Andes, Bogotá Colombia

Teaching Assistant | Undergraduate Design Course: Studio 2 – Development and Production | 2025 – 1

Introductory design course focused on understanding and appropriating objects through morphology, mechanisms, and functionality. Guided students in ideation, representation, and prototyping using sketches, technical drawings, and physical and digital models, emphasizing usability validation in real contexts.

Universidad de los Andes, Bogotá Colombia

Teaching Assistant | Undergraduate Biomedical Engineering Course: Fundamentals of Visual Recognition | 2024 – 2

Introductory course on computer vision and image processing, oriented toward understanding the fundamentals of computer vision as a branch of applied artificial intelligence. Provided academic support to approximately 70 students per semester.

Universidad de los Andes, Bogotá Colombia

Research Assistant | CINFONIA Research Group | 2024 – 2025

The Center for Research and Training in Artificial Intelligence (CINFONIA) is the first academic AI research center in Latin America. Participated in the EndoVis group, focused on biomedical computer vision research, specifically surgical phase recognition and surgical instrument instance segmentation in endoscopic videos.

Contributed to the MICCAI Conference via the PhaKIR Challenge (Phase, Keypoint, and Instrument Recognition), achieving first place in Surgical Procedure Phase Recognition and third place in Surgical Instrument Instance Segmentation.

Universidad de los Andes, Bogotá Colombia

Teaching Assistant | Undergraduate Biomedical Engineering Course: Scientific Programming | 2023 – 2

Course focused on introducing the fundamentals of scientific programming applied to machine learning. Through a review of linear algebra and vector calculus concepts, supported students in the construction and implementation of search and optimization algorithms, addressing the mathematical formulation of problems and the definition of their conditions.

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Universidad de los Andes, Bogotá Colombia

Teaching Assistant | Undergraduate Design Course: Algorithmic Thinking | 01/2023 – 12/2023

Introductory undergraduate design course focused on creative programming using Processing. The course introduces algorithmic thinking as a tool to explore and structure design projects across multiple perspectives, media, and materialities, highlighting its potential as a complement to creative thinking.

EDUCATION

2020 – 2025	Universidad de Los Andes Summa Cum Laude in Design Summa Cum Laude in Biomedical Engineering Bogotá, Colombia
2018 - 2020	Pontificia Universidad Javeriana Completed 4 semesters of Industrial Design undergraduate studies Completed 3 semesters of Social Communication undergraduate studies Bogotá, Colombia
2004 - 2018	Colegio Helvetia de Bogotá Bilingual Diploma, Swiss Matura Bogotá, Colombia

TECHNICAL SKILLS

Programming Languages	Python, Processing, Touch Designer
3D Modeling & Simulation	Rhinoceros 3D
Digital Design & File Management	Adobe Creative Suite (Illustrator, InDesign, Photoshop) Microsoft Office (Word, Excel, PowerPoint)
Languages	Spanish – Native English – Fluent (speaking, reading, writing) German – C2 (speaking, reading, writing) French – B2 (speaking, reading)

ADDITIONAL ACADEMIC TRAINING

Research Groups	CINFONIA Center for Research and Training in Artificial Intelligence – Deep Learning Research Seed Group, 2024 GINIB Research Group in Nanomaterials, Cellular Engineering, and Bioprinting, Department of Biomedical Engineering, Universidad de los Andes
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Honors & Awards

Summa Cum Laude degree for achieving a GPA that is in the top 1% of the historical GPAs of graduates from the faculty in the last 5 years and for demonstrating integral merits

Semester Excellence Award for achieving the highest GPA in the Design program, Universidad de los Andes, 2025-10

Semester Excellence Award for achieving the highest GPA in the Biomedical Engineering program, Universidad de los Andes, 2024-200

Ranked among the top 10 GPAs in the Biomedical Engineering program, Universidad de los Andes, 2022-20, 2023-10, 2023-20, 2024-10

Academic Excellence Scholarship for achieving the highest GPA in Industrial Design, Pontificia Universidad Javeriana, 2019-10, 2019-20, 2020-10

References

Available upon request