Guillaume Jeanneret Sanmiguel

Curriculum Vitae

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About me

Summary   I am a Biomedical Engineer from Los Andes University, with two minors: one in Mathematics and the other in Computational Mathematics. I obtained my Master's Degree at Los Andes University as well. I specialized my work on Machine Learning techniques, specially on Deep Learning (DL) tools. I have a strong basis on Programming, Mathematics and Machine Learning. I am an experienced user of the Pytorch library, frequently used on the Computer Vision research community. Currently, I work at the CinfonIA research group led by Professor Pablo Arbeláez at the Universidad de los Andes.

Areas of Interest   Computer Vision, Deep Learning, Unsupervised Machine Learning, Robust Machine Learning, Applied Mathematics and Mathematical Modelling.

Nationalities   Colombian and Swiss

Education

2018–2020   **M.Sc. in Biomedical Engineering**, *Department of Biomedical Engineering, Universidad de los Andes, Bogotá, Colombia*.

2013–2018   **B.Sc. Biomedical Engineering**, *Department of Biomedical Engineering, Universidad de los Andes, Bogotá, Colombia*.

2018   **Minor Mathematics and Computational Mathematics**, *Department of Mathematics, Universidad de los Andes, Bogotá, Colombia*.

2013   **Maturité Suize Degree (Math and Physics emphasis)**, *Helvetia School, Bogotá, Colombia*.

2013   **High School Degree**, *Helvetia School, Bogotá, Colombia*.

Published Papers

ECCV 2020   Gabor Layers Enhance Network Robustness

Research Projects

medRXiv   Smart Pooling: AI-powered COVID-19 testing.

M.Sc. Thesis   MINT: Multi Instance Network, an Efficient Framework for Video Object Segmentation.

arXiv   MAIN: Multi Attention Instance Network.

MTBI Project   The Dynamics of Math Anxiety as it is Transferred through Peer and Teacher Interactions.

Internships

Summer 2017   MTBI – Research Experience for Undergraduates at the Arizona State University

Experience

01/18 - Present	Researcher at the Biomedical Computer Vision Group.
01/20-11/20	Graduate Researcher Assistant at the Universidad de los Andes
01/19–12/19	Graduate Research Assistant: Video Analysis

- Research focused on the task One-Shot Video Object Segmentation.
- International Conference paper writing.

07/18–12/18	Graduate Teaching Assistant: Processing and Image Analysis

- Laboratory Instructor - 80 students in charge.
- Designing and grading laboratory guides.
- Final project grading.

01/18–06/18	Graduate Teaching Assistant: Scientific Programming

- Laboratory Instructor - 65 students in charge.
- Designing and grading laboratory guides.
- Final project grading.

07/17–12/17	Undergraduate Teaching Assistant: Processing and Image Analysis

- Helping assistant for the lectures.

01/16–12/17	Undergraduate Teaching Assistant: Accompaniment Program

- Helping first semester students with courses such as: Differential Calculus, Programming, Physics, Chemistry and personal development.

07/15–12/15	Undergraduate Teaching Assistant: Algorithm and Object Oriented Programming

- Grading projects and assisting with laboratory Java tutorials.

Technical Skills

Programming	PYTHON, MATLAB
Software	LaTeX, MICROSOFT OFFICE
DL Framework	Pytorch

Languages

Spanish	Native
English	Fluent
French	Fluent (Swiss *Maturité*)