

Guillaume Jeanneret Sanmiguel

Curriculum Vitae

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📁 [guillaumejs2403.github.io](https://github.com/guillaumejs2403)



About me

Summary I am a biomedical engineer from the Universidad de los Andes, Colombia. I received my Master's degree in Biomedical Engineering from the Universidad de los Andes. I've worked as a Graduate Research Assistant in the CinfonIA research group research group led by Pablo Arbeláez. Currently, I am a third year Ph.D. student at the Greyc Laboratory under the supervision of Dr. Frédéric Jurie and Dr. Loïc Simon. My research experience spans the area of computer vision, with a focus on, but not limited to, explainable AI. In addition, I have served as a reviewer for internationally recognized conferences (e.g., CVPR, I/ECCV, or WACV) and the TPAMI journal.

Areas of Interest Deep Learning, Computer Vision, Explainable AI, Counterfactual Explanations.

Nationalities Colombian and Swiss

Education

08/21–08/24 **PhD Student**, Unicaen, *GREYC Laboratory*.
(Expected)

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 Suisse Degree (Math and Physics emphasis)**, *Helvetia School, Bogotá, Colombia*.

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

Published Papers

- WACV 2024 Text-to-Image Models for Counterfactual Explanations: a Black-Box Approach
- ICCVW 2023 BoDiffusion: Diffusing Sparse Observations for Full-Body Human Motion Synthesis
- CVPR 2023 Adversarial Counterfactual Visual Explanations
- ACCV 2022 Diffusion Models for Counterfactual Explanations (Oral)
- Scientific Reports 2022 Smart Pooling: AI-powered COVID-19 testing
- ICCVW 2021 A Hierarchical Assessment of Adversarial Severity (Best Paper Award)
- ICCVW 2021 Enhancing Adversarial Robustness via Test-time Transformation Ensembling
- CVIU 2021 MAIN: Multi Attention Instance Network.
- ECCV 2020 Gabor Layers Enhance Network Robustness

Research Projects and PrePrints

MTBI Project The Dynamics of Math Anxiety as it is Transferred through Peer and Teacher Interactions.
M.Sc. Thesis MINT: Multi Instance Network, an Efficient Framework for Video Object Segmentation.

Internships

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

Experience

- 08/21–Today PhD Student at GREYC Laboratory
- 01/18–07/21 Researcher at the Biomedical Computer Vision Group.
- 01/20–11/20 Graduate Research 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 L^AT_EX, MICROSOFT OFFICE
ML Pytorch, Sklearn
Framework

Languages

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