

# Guillaume Jeanneret Sanmiguel

## Curriculum Vitae

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



### About me

**Summary** I am a third-year PhD student at the GREYC Laboratory under the supervision of Dr. Frédéric Jurie and Dr. Loïc Simon. My research expertise spans a wide area of computer vision, including counterfactual explanations, adversarial robustness, and video object segmentation. Currently, I am focusing my PhD studies on the research branch of explainable AI. Previously, I worked as a Graduate Research Assistant in the CinfonIA research group research group, led by Pablo Arbeláez. Additionally, I have reviewed papers for internationally recognized conferences such as CVPR, ICCV, ECCV, WACV, and the TPAMI journal since 2021.

**Areas of Interest** Deep Learning, Computer Vision, Explainable AI.

**Nationalities** Colombian and Swiss

### Education

- 08/21–08/24 **Computer Science PhD Student**, *Unicaen, ENSICAEN, GREYC Laboratory, Caen, France.*  
(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.
- Scientific Reports 2022 Smart Pooling: AI-powered COVID-19 testing.
- ICCVW 2021 A Hierarchical Assessment of Adversarial Severity.
- 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.

## Experience

08/21–Today Computer Science PhD Student at GREYC Laboratory, Caen, France  
01/18–07/21 Researcher at the Biomedical Computer Vision Group, Bogotá, Colombia.  
01/19–12/20 Graduate Research Assistant (Universidad de los Andes, Bogotá, Colombia)  
07/18–12/18 Graduate Teaching Assistant: Image Processing and Analysis (Universidad de los Andes, Bogotá, Colombia)

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

  
01/18–06/18 Graduate Teaching Assistant: Scientific Programming (Universidad de los Andes, Bogotá, Colombia)

- 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 (Universidad de los Andes, Bogotá, Colombia)

- Helping assistant for the lectures.

  
Summer 2017 MTBI – Research Experience for Undergraduates (Arizona State University, Arizona, USA)  
01/16–12/17 Undergraduate Teaching Assistant: Accompaniment Program (Universidad de los Andes, Bogotá, Colombia)

- 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 (Universidad de los Andes, Bogotá, Colombia)

- Grading projects and assisting with Java tutorials.

## Awards and Achievements

Adversarial Robustness in the Real World ICCV 2021 Workshop - Best Paper Award was given to the paper titled *A Hierarchical Assessment of Adversarial Severity*

ACCV 2022 Oral Presentation: *Diffusion Models for Counterfactual Explanations*

## Languages

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