Guillaume Jeanneret Sanmiguel

Curriculum Vitae

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About me

Summary I am a postdoctoral researcher at ISIR laboratory (Sorbonne Universite), under the supervision of Matthieu Cord. I obtained my PhD in Computer Science at the GREYC Laboratory (Universite de Caen Normandie) working under the supervision of Frédéric Jurie and Loïc Simon. My research expertise spans a wide range of computer vision topics, including counterfactual explanations, adversarial robustness, and video generation. Previously, I worked as a Graduate Research Assistant in the CinfonIA research group, led by Pablo Arbeláez. Additionally, I serve as a regular reviewer for papers for internationally recognized conferences such as CVPR, ICCV, ECCV, WACV, and the TPAMI journal.

Areas of Interest Deep Learning, Computer Vision, Explainable AI, Video Generation.

Nationalities Colombian and Swiss

Education

08/21–08/24 **PhD Computer Science**, *Unicaen, ENSICAEN, GREYC Laboratory*, Caen, France.

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

2013–2018 **B.Sc. 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.

Experience

11/24–11/26 Post Doctoral Researcher at ISIR Lab (Sorbonne Universite), Paris, France

08/21–08/24 PhD in Computer Science (Universite de Caen Normandie), 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)
Summer 2017	MTBI – Research Experience for Undergraduates (Arizona State University, Arizona, USA)

Teaching Experience

09/25–01/26	Graduate Teaching Assistant: Pattern Recognition for Image Analysis and Interpretation (Sorbonne Université), Paris, France
10/23–12/23	Graduate Teaching Assistant: Tools for Computer Vision (ENSICAEN, Caen, France)
10/22–12/22	Graduate Teaching Assistant: Tools for Computer Vision (ENSICAEN, Caen, France)
07/18–12/18	Graduate Teaching Assistant: Image Processing and Analysis (Universidad de los Andes, Bogotá, Colombia)
01/18–06/18	Graduate Teaching Assistant: Scientific Programming (Universidad de los Andes, Bogotá, Colombia)
07/17–12/17	Undergraduate Teaching Assistant: Processing and Image Analysis (Universidad de los Andes, Bogotá, Colombia)
01/16–12/17	Undergraduate Teaching Assistant: Accompaniment Program (Universidad de los Andes, Bogotá, Colombia)
07/15–12/15	Undergraduate Teaching Assistant: Algorithm, and Object Oriented Programming (Universidad de los Andes, Bogotá, Colombia)

Published Papers

CVPRW 2025	Disentangling Visual Transformers: Patch-level Interpretability for Image Classification
CVPRW 2025	OnlyFlow: Optical Flow based Motion Conditioning for Video Diffusion Models
WACV 2024	Text-to-Image Models for Counterfactual Explanations: a Black-Box Approach.
CVIU 2024	Diffusion Models for Counterfactual Explanations (Journal Version)
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

Ph.D Thesis	Towards Explainable and Interpretable Deep Neural Networks
M.Sc. Thesis	MINT: Multi Instance Network, an Efficient Framework for Video Object Segmentation.

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

Awards and Achievements

Outstanding Reviewer: CVPR25, ICCV25, CVPR26

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*)