Guillaume Jeanneret Sanmiguel

Curriculum Vitae

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About me

Summary	I am a Biomedical Engineer from la Universidad de los Andes, Colombia. I obtained my Master's Degree on Biomedical Engineer at the Universidad de los Andes. I've worked as a Graduate Research Assistant at the CinfonIA research group research group, led by Dr. Pablo Arbeláez. Currently, I am a PhD student at Unicaen under the supervision of Dr. Frédéric Jurie and Dr. Loic Simon.
Areas of Interest	Computer Vision, Deep Learning, Applied Mathematics and Mathematical Modelling.
Nationalities	Colombian and Swiss

Education

08/21–Today	**PhD Student**, Unicaen, *GREYC Laboratory*.
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
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.

Research Projects

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

Internships

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

Experience

08/21–Today	PhD Student at Unicaen, GREYC Laboratory
01/18–07/21	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*)