

Guillaume Jeanneret Sanmiguel

Curriculum Vitae

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About me

Summary I am a M.Sc. in Biomedical Engineering from the Universidad de los Andes and a Biomedical Engineer with a minor on Mathematics and Computer Science from the Universidad de los Andes, Bogotá, Colombia, as well. I have knowledge on Machine Learning, specially on Deep Learning, and Applied Mathematics. I have a strong basis on Programming, Mathematics and Machine Learning, specially Deep Learning (DL) using the PyTorch framework. Currently, I work at the Biomedical Computer Vision led by Professor Pablo Arbeláez at the Universidad de los Andes.

Areas of Interest Computer Vision, Deep Learning, Probability, Statistics, Applied Mathematics and Mathematical Modelling.

Nationalities Colombian and Swiss

Experience

2018–2020 Research at the Biomedical Computer Vision Group.

2019/01–12 Graduate Research Assistant: Video Analysis

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

2018/07–12 Graduate Teaching Assistant: Processing and Image Analysis

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

2018/01–06 Graduate Teaching Assistant: Scientific Programming

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

2017/07–12 Undergraduate Teaching Assistant: Processing and Image Analysis

- Helping assistant for the lectures.

2016/01–2017/12 Undergraduate Teaching Assistant: Accompaniment Program

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

2015/07–12 Undergraduate Teaching Assistant: Algorithm and Programming

- Project grading and assistant on laboratory Java tutorials.

Education

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

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

2018 **Minor Mathematics and Computer Science**, *Department of Biomedical Engineering, 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.*

Projects

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

MAIN: Multi Attention Instance Network – One-Shot Video Object Segmentation using Deep Learning. Available on arXiv.

Robust Gabor Networks – Robustness properties on architectural layers. Available on arXiv.

MTBI The Dynamics of Math Anxiety as it is Transferred through Peer and Teacher Interactions – A mathematical model to analyse the transfer of math anxiety

Academic Courses

2018/07–12 Advanced Machine Learning

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

2017/01–06 Computer Vision

Technical Skills

Programming PYTHON, MATLAB

Software L^AT_EX, MS WORD, MS EXCEL, MS POWERPOINT

DL Pytorch

Framework

Languages

Spanish Native

English Fluent

French Fluent