Guillaume Jeanneret Sanmiguel

Curriculum Vitae

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About me

Summary — I am a Biomedical Engineer with a minor on Mathematics and Computer Science from the Universidad de los Andes, Bogotá, Colombia, and a M.Sc. in Biomedical Engineering from the Universidad de los Andes as well. I have interest 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

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

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

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.

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 LaTeX, MS Word, MS Excel, MS Powerpoint

DL Framework Pytorch

Languages

Spanish Native

English Fluent

French Fluent