Guillaume Jeanneret Sanmiguel

Curriculum Vitae

✉ *guillaumejs2403@gmail.com, g.jeanneret@uniandes.edu.co*

⌂ *guillaumejs2403.github.io*

About me

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

Researcher 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 first semester students with courses such as: Differential Calculus, Programming, Physics, Chemistry and personal development.

2015/07–12 Undergraduate Teaching Assistant: Algorithm and Object Oriented Programming
- Grading projects and assisting with laboratory Java tutorials.

Education

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 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.*

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