# 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 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 (DL), and Applied Mathematics. I have a strong basis on Programming, Mathematics and Machine Learning, specially 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 Computer Vision, Deep Learning, Probability, Statistics, Applied Mathematics and Mathe-Interest matical Modelling.

Nationalities Colombian and Swiss

### 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 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

# Research Projects

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

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

arXiv MAIN: Multi Attention Instance Network.

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

01/18 - Researcher at the Biomedical Computer Vision Group.

present

01/20- Graduate Researcher Assistant at the Universidad de los Andes

Present

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 (Advanced), Matlab (Advanced)

Software LATEX, MS WORD, MS EXCEL, MS POWERPOINT

DL Pytorch

Framework

# Languages

Spanish Native

English Fluent

French Fluent (Swiss Matura)