

Valentin Gabeur

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EDUCATION

Grenoble-Alpes University - Grenoble, France

Feb 2019 - Present

PhD. Computer Science

Thesis subject : Cross-modal learning for scene understanding.

Supervisors : Cordelia Schmid, Karteek Alahari

Computer vision, Natural language processing, Machine learning.

Paul-Sabatier University - Toulouse, France

2017 - 2018

MSc. Robotics : Decision and Control

Rank 1/18

Machine-learning, Optimisation & Estimation, 3D Perception, Industrial & Mobile robotics.

ICAM - Lille, France

2006 - 2011

MSc. Engineering

Rank 1/96

Mechanical engineering, Automation, Computer science, Manufacturing, Project management.

SKILLS

Programming Python, C++

Deep learning Jax, PyTorch

Software & Tools LaTeX, Blender, Solidworks

Languages French (native), English (fluent), Spanish (fluent), Chinese (intermediate)

EXPERIENCE

Google AI

Grenoble, France

Student Researcher - Cifre PhD Program

Feb 2019 - Jan 2022 (3 years)

3D perception, Video retrieval from natural language queries, Audio-visual speech recognition.

INRIA

Grenoble, France

Research Engineer

Oct 2018 - Jan 2019 (4 months)

Generation of a semi-synthetic dataset of 3D captures in a virtual environment.

INRIA

Grenoble, France

MSc Student Intern

Apr 2018 - Sept 2018 (6 months)

Subject : 3D Human body shape estimation from a single RGB image.

Design of a novel deep learning architecture estimating dense points clouds of a scene in the form of depth maps.

Addition Manufacturing Technologies

Toulouse, France

Project Manager

Apr 2016 - Jul 2017 (1.5 year)

Responsible for the development of a new robotic tube bender.

Addition Manufacturing Technologies

San Diego, USA

Mechanical Engineer

Apr 2013 - Mar 2016 (3 years)

Production transfer of the robotic tube benders line from France to the USA.

Flabeg Holding GmbH

Shanghai, China

Mechanical Engineer

Oct 2011 - Oct 2012 (1 year)

Designed new equipment for the production of automotive mirrors.

Ensival-Moret

Shanghai, China

Lean Engineer Trainee

Mar 2011 - Aug 2011 (6 months)

Identified workshop problems and implemented actions reducing the throughput time and improving the pumps manufacturing process.

PUBLICATIONS

1. **V. Gabeur**, A. Nagrani, C. Sun, K. Alahari and C. Schmid. Masking Modalities for Cross-modal Video Retrieval. *Winter Conference on Applications of Computer Vision (WACV)*, 2022.
2. **V. Gabeur**, C. Sun, K. Alahari and C. Schmid. Multi-modal Transformer for Video Retrieval. *European Conference on Computer Vision (ECCV)*, 2020.
3. **V. Gabeur**, J.S. Franco, X. Martin, C. Schmid and G. Rogez. Moulding Humans : Non-parametric 3D Human Shape Estimation from Single Images. *International Conference on Computer Vision (ICCV)*, 2019.

AWARDS

- First place at the CVPR 2020 Video Pentathlon Challenge, a video retrieval competition.