



MCV is an official inter-university master organized by four universities in the Barcelona area:

- Universitat Autònoma de Barcelona (UAB)
- Universitat Oberta de Catalunya (UOC)
- Universitat Politècnica de Catalunya (UPC)
- Universitat Pompeu Fabra (UPF).

MCV takes advantage from the teaching experience of the involved departments of each University, as well as their research experience.

Research staff from these universities form an outstanding team with an international reputation in teaching, research and technology transfer in the field of computer vision.



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Academic partners



Master in Computer Vision

2017-2018



pagines.uab.cat/mcv/



OVERVIEW

The Master in Computer Vision (MCV) is an academic program designed to obtain a Master degree in Computer Vision. This International program will bring you to the frontier of this exciting area where there is high demand for researchers and professionals in universities, public institutions and industry. The course will also prepare you for further studies towards a PhD.

CONTENTS

MCV students will acquire thorough knowledge of the theoretical foundations of Computer Vision.

Topics include:

- Advance Programming for CV
- Low Level Vision
- Pattern Recognition
- Machine Learning
- Visual Recognition
- Computational Photography
- 3D Scene Recovery

METHODOLOGY

MCV follows the Project Based Learning (PBL) scheme, making the learning experience more dynamic by integrating hands-on Project work and laboratory sessions.

LANGUAGE: English

NUMBER OF STUDENTS 30

FEES *for guidance only

46.11€/credit for EU citizens

75€/credit for non-EU citizens

ADMISSION REQUIREMENTS

Well-qualified students with a bachelor's degree (minimum 240 ECTS) in computer science, electrical/electronics/telecommunications engineering, maths or physics, or closely related disciplines are invited to apply for admission to this program.

PROGRAM STRUCTURE

This master , includinprogram has 60ECTS (European Credit Transfer System). This is equivalent to 40 hours per week during one yearg lectures, assignments, projects and collaborative work. it can be pursued either full-time (1 year) or part-time (2 years) .

COURSES

	Modules	Term	ECTS	Univ.
M1	Introduction to human and CV	1st (Oct-Nov)	6	UPC
M2	Optimization and Inference techniques for CV	1st (Oct-Nov)	6	UPF
M3	Machine Learning techniques for CV	1st (Dec-Feb)	6	UAB
M4	3D Vision	1st (Dec-Feb)	6	UPF
M5	Visual Recognition	2nd (Feb-Apr)	6	UAB
M6	Video Analysis	2nd (Feb-Apr)	6	UPC
M7	Introduction to Research Dissemination	1st (Oct-Feb)	6	UOC (online)
M8	Research and Technology Transfer Management	2nd (Feb-May)	6	UOC (online)
M9	Master Dissertation	2nd (May-Jul or Sep)	12	ALL

Total: 60

We offer 2 different options to follow the courses:

FULL-TIME

October	November	December	February	March	April	May	July(September)
M1. Introduction to human and CV (UPC)		M3. Machine Learning techniques for CV (UAB)		M5. Visual Recognition (UAB)			
M2. Optimization and Inference techniques for CV (UPF)		M4. 3D Vision (UPF)		M6. Video Analysis (UPC)			
M7. Introduction to Research Dissemination (UOC)				M8. Research and Technology Transfer Management (UOC)			
							M9. Master's Dissertation

PART-TIME

FIRST YEAR

October	November	December	February	March	April	May	July(September)
M1. Introduction to human and CV (UPC)		M3. Machine Learning techniques for CV (UAB)		M5. Visual Recognition (UAB)			
M7. Introduction to Research Dissemination (UOC)				M8. Research and Technology Transfer Management (UOC)			

SECOND YEAR

October	November	December	February	March	April	May	July (September)
M2. Optimization and Inference techniques for CV (UPF)		M4. 3D Vision (UPF)		M6. Video Analysis (UPC)			
M9. Master's Dissertation							

SCHEDULE

Time	Monday	Tuesday	Wednesday	Thursday
16h-17h	M1 / 3 / 5	M2 / 4 / 6	M1 / 3 / 5	M2 / 4 / 6
17h-18h	M1 / 3 / 5	M2 / 4 / 6	M1 / 3 / 5	M2 / 4 / 6
18h-19h	Project M1/3/5			Project M2/4/6

MASTER THESIS

The topic of the thesis can be used as the basis for further research to obtain a PhD degree or as part of an industrial project. The master offers its students the opportunity to do their project as an internship in a Company. To see all the proposals, current and past, visit: http://pagines.uab.cat/mcv/content/cp_2015_2016 (click on previous proposals).