

# Javier Vazquez-Corral

Associate Professor  
Autonomous University of Barcelona  
and  
Senior Researcher  
Computer Vision Center  
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<http://jvazquezcorral.github.io>

## OVERVIEW

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I am a researcher in computational color with extensive teaching experience in many aspects of mathematics and computer science. I have developed novel approaches to solve different problems ranging from color constancy to color stabilization, color characterization, color gamut mapping, high dynamic range imaging, image dehazing, and image denoising. I have published 33 articles in top-ranked journals (27 of them as either first or second author) and more than 40 international conferences. I have an European Patent granted -and a second application in process-, and research experience in cutting-edge research labs in Spain, UK, Canada, and Switzerland, working in high-profile research projects. I have extensive experience in teaching in both undergraduate and master courses in Spain and the UK, with more of 1100 hours of teaching already performed.

## EDUCATION

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<b>PhD Computer Science</b>	2011
<i>Universitat Autònoma de Barcelona, Barcelona, Spain</i>	
“Colour Constancy in natural images through Colour Naming and Sensor Sharpening”.	
Thesis advisors: M. Vanrell (UAB) / G.D. Finlayson (UEA).	
Grade: Cum Laude.	
European Mention.	
<b>MSc Advanced Computer Science</b>	2007
<i>Universitat Autònoma de Barcelona, Barcelona, Spain</i>	
<b>BSc+MSc (Spanish Licenciatura) Mathematics</b>	2006
<i>Universitat de Barcelona, Barcelona, Spain</i>	

## APPOINTMENTS

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<b>Associate Professor</b>	Mar. 2021-
<i>Universitat Autònoma de Barcelona, Barcelona, Spain</i>	
<ul style="list-style-type: none"><li>• Coordinate university subjects, preparing exams, and marking grades and reports.</li><li>• Teach university subjects to undergraduate and graduate students in my area of specialization –Computer Science and Artificial Intelligence-, preparing all the necessary materials to do so.</li><li>• Lead the research of graduate students and post-doctoral researchers advising them on research matters.</li><li>• Conduct top-notch research and publish it in top journal publications and conferences.</li><li>• Participate and serve on faculty committees, and perform administrative duties as requested by the head of school.</li></ul>	

**Senior Researcher**

Jul. 2021-

*Computer Vision Center, Barcelona, Spain*

- Affiliated Researcher. Research in Computational Color.

**Honorary Lecturer**

Jul. 2020- Jun. 2023

*University of East Anglia, Norwich, United Kingdom*

- Honorary appointment given for ongoing collaborations with the institution.

**Post-doctoral Researcher "Jóvenes Investigadores"**

Oct 2020- Mar. 2021

*Universitat Pompeu Fabra, Barcelona, Spain*

- Lead the project "ICVIR: In-camera Visibility Restoration".
- Perform research in image visibility restoration, more in detail, in the aforementioned project, and publish it in top journal publications and conferences.
- Teach university subjects to undergraduate and graduate students, preparing all the necessary materials to do so. In detail, I taught Linear Algebra.
- Participate and serve on faculty committees, and perform administrative duties as requested by the head of school.

**Postdoctoral researcher**

Jun. 2019-Set 2020

*Universitat Pompeu Fabra, Barcelona, Spain*

- Perform research in computational color for HDR imaging, more in detail in the projects "SAUCE: Smart Asset re-Use in Creative Environments", "HDR4EU: Enabling End-to-End HDR Ecosystem" and publish it in top journal publications and conferences.
- Participate and serve on faculty committees, and perform administrative duties as requested by the head of school.

**Senior Research Associate**

Aug 2018-May 2019

*University of East Anglia, Norwich, United Kingdom*

- Perform research in computational color, more in detail in the project "Colour space homography", and publish it in top journal publications and conferences.

**Post-doctoral Researcher "Juan de la Cierva-Incorporación"**

Sept. 2016-Aug 2018

*Universitat Pompeu Fabra, Barcelona, Spain*

- Perform Research in computational color and image restoration, and publish it in top journal publications and conferences.
- Teach university subjects to undergraduate and graduate students, preparing all the necessary materials to do so. In detail, I taught Linear Algebra and Image and Video Coding.
- Participate and serve on faculty committees, and perform administrative duties as requested by the head of school.

**Visiting lecturer**

Sept. 2014-Sept. 2016

*Universitat Pompeu Fabra, Barcelona, Spain*

- Perform research in computational color –gamut mapping and color stabilization-, more in detail, in the project: "IP4EC: Image Processing for Enhanced Cinematography" and publish it in top journal publications and conferences.
- Teach university subjects to undergraduate and graduate students, preparing all the necessary materials to do so. In detail, I taught Linear Algebra, Image and Video Coding, and Differential Equations.

- Participate and serve on faculty committees, and perform administrative duties as requested by the head of school.

**Postdoctoral researcher**

Oct. 2012-Sept. 2014

*Universitat Pompeu Fabra, Barcelona, Spain*

- Perform research in computational color –gamut mapping and color stabilization-, more in detail, in the project: “IP4EC: Image Processing for Enhanced Cinematography” and publish it in top journal publications and conferences.
- Participate and serve on faculty committees, and perform administrative duties as requested by the head of school.

**Postdoctoral researcher**

Oct. 2011-Sept. 2012

*Universitat Autònoma de Barcelona, Barcelona, Spain*

- Teach university subjects to undergraduate and graduate students in his area of specialization –Computer Science and Artificial Intelligence-, preparing all the necessary materials to do so. In detail, I taught Artificial Intelligence, System Planning, and Artificial Vision.
- Conduct research and publish it in top journal publications and conferences in the topic of Color Constancy.
- Participate and serve on faculty committees, and perform administrative duties as requested by the head of school.

**Postdoctoral researcher**

Jul. 2011-Sept. 2011

*EPFL, Lausanne, Switzerland*

- Conduct research in spectral sharpening methods for color imaging.

**Associate tutor**

Jan. 2011-Apr. 2011

*University of East Anglia, Norwich, United Kingdom*

- Conduct research in spectral sharpening methods for color imaging
- Teach Computer Vision for Computational Photography.

**Associate lecturer**

Sept. 2008-Sept. 2010

*Universitat Autònoma de Barcelona, Barcelona, Spain*

- Teach university subjects to undergraduate students in his area of specialization –Computer Science and Artificial Intelligence-, preparing all the necessary materials to do so. In detail, I taught Programming Languages and Algorithms.
- Conduct research and publish it in top journal publications and conferences in the topics of Computational Color Constancy.
- Participate and serve on faculty committees, and perform administrative duties as requested by the head of school.

**PhD Student fellow**

Sept. 2006-Sept. 2008

*Universitat Autònoma de Barcelona, Barcelona, Spain*

- Teach university subjects to undergraduate students in his area of specialization –Computer Science and Artificial Intelligence-, preparing all the necessary materials to do so. In detail, I taught Data Structures.
- Conduct research and publish it in top journal publications and conferences in the topics of Computational Color Constancy.

## RESEARCH STAYS

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<b>Invited Scholar</b> <i>York University, Toronto, Canada</i>	Sep. 2022-Aug. 2023
<b>Visiting Postdoctoral researcher</b> <i>Simon Fraser University, Vancouver, Canada</i>	Jun. 2011-Jun. 2011
<b>Visiting Student</b> <i>University of East Anglia, Norwich, United Kingdom</i>	Feb. 2010-May 2010
<b>Visiting Student</b> <i>University of East Anglia, Norwich, United Kingdom</i>	Apr. 2009-Jul. 2009

## LANGUAGES

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Spanish (Native), Catalan (Native), **English** (Fluent), **French** (Intermediate).

## INDICATORS

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### JCR journals:

- 33 publications in JCR journals: 17 in Q1 journals (8 in D1: 1 IEEE-TPAMI, 6 IEEE-TIP, 1 SIAM-SIIMS, 1 PR), 10 in Q2. 12 as first author, 15 as second author.

### Conferences:

- 42 international conference publications.
- 8 in Class-1 (excellent-top notch), 6 in Class-2 (very good) of the GII-GRIN-SCIE ranking.

### Scientific Recognitions

- Research Accredited by ANECA and AQU for the period 2007-2012.
- Research Accredited by ANECA and AQU for the period 2013-2018.

### Scientific research impact:

- **Google Scholar:** 1558 citations, h-index=20, i10-index=33 (24/03/2025).
- **Scopus:** 889 citations, h-index=16, i10-index=23 (24/03/2025).

### Direction of students:

- 4 PhD Theses co-supervised (2 at Univ. Pompeu Fabra (UPF), 1 at Univ. East Anglia (UEA), 1 at Univ. Aut3noma de Barcelona).
- Currently co-supervising 2 PhD Thesis.

### Funding secured:

- Proyectos de Generaci3n del Conocimiento. Explainable and interpretable Image Enhancement. Co-PI. 130,500€.

- Retos-JIN Project -2019 call- (Acceptance rate: < 9%). In-camera Visibility Restoration. Sole Principal Investigator. 181,500 €.
- Research project with a major Phone Company. Principal investigator. 91.000 €.
- Juan de la Cierva-Incorporación Grant -2014 call- (Acceptance rate: < 14%). 64,000 €.
- Ramón y Cajal Grant -2021 call- (Ranked in top 9%). -declined due to gaining a permanent position-.
- Grants for the retraining of University Staff -2021-. 60,000 €.
- Competitive Mobility Scholarships worth 10,500 €.

#### Technology Transfer:

- 1 European Patent granted.
- 1 European Patent filed.

## PATENTS

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2. M. Bertalmío, A. Gómez-Villa, A. Martín y **J. Vazquez-Corral** “Computer implemented method for processing structured data”, EP20382676.3, Patent filed, 2020.
1. S.W. Zamir, **J. Vazquez-Corral**, and M. Bertalmío, “Method and system for color gamut mapping”, EP17382462.4, Patent granted (filed: 2017, granted: 2021).

## INVITED TALKS

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- 2025 (1): Universidad Autónoma de Madrid, Spain
- 2024 (1): Huawei workshop on Future Imaging, France; HP Color Group, online
- 2023 (1): Université Laval, Canada
- 2022 (2): CIMAT, Mexico; Huawei workshop on Future Imaging, France
- 2021 (2): University of Giessen, Germany; Huawei workshop on Spectral Color Imaging Techniques, Online (Russia-based).
- 2020 (1): Huawei workshop on Accurate Color Reproduction, Online (Russia-based).
- 2019 (2): Huawei workshop on Color and Multispectral Imaging, Belarus; Spectral Edge, Ltd, United Kingdom.
- 2018 (2): Cortexica Ltd, United Kingdom; Computer Vision Center, Spain.
- 2017 (3): Linköping University, Sweden; Universidad Politécnica de Madrid, Spain; Universidad Rey Juan Carlos, Spain.
- 2015 (2): University of East Anglia, United Kingdom; Computer Vision Center, Spain.
- 2013 (1): Universitat Pompeu Fabra, Spain.
- 2012 (4): University of Newcastle, United Kingdom; Leeds University, United Kingdom; University of Bradford, United Kingdom; Al Balqa University, Jordan.

## THESES SUPERVISED

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4. Danna Xue – PhD-Co-supervised with L. Herranz and Y. Zhang; 11/07/2024; “On Considering Semantics for Multi-image Processing”, *Autònoma de Barcelona*
3. Fufu Fang – PhD-Co-supervised with G.D. Finlayson and M. Mackiewicz; 23/10/2020; “Integrating Colour Correction Algorithms”, *University of East Anglia*.
2. Raquel Gil Rodríguez – PhD-Co-supervised with M. Bertalmío; November 2018; “Digital camera colour processing pipeline for high dynamic range imaging and colour stabilisation for cinema”, *Universitat Pompeu Fabra*.
1. Syed Waqas Zamir – PhD-Co-supervised with M. Bertalmío; May 2017; “Perceptually-Inspired Gamut Mapping for Display and Projection Technologies”, *Universitat Pompeu Fabra*.

## GRANTS

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- Grants for the retraining of University teaching staff, Ministerio de Universidades, Gobierno de España (Spanish Government), 60,000 €, 2021.
- Ramón y Cajal, Ministerio de Ciencia, Gobierno de España. Gobierno de España (Spanish Government), Declined due to gaining a permanent position, 2021.
- Juan de la Cierva-Incorporación, Ministerio de Economía y Hacienda (MINECO), Gobierno de España (Spanish Government), 64,000 €, 2015.
- Beques per a estades de recerca fora de Catalunya (BE), Generalitat de Catalunya (Marie Curie Actions), 6,200 €, 2010.
- Becas de movilidad para obtener la mención europea del título de doctor TME2008-01275, MICINN, Gobierno de España (Spanish Government), 4,200 €, 2009.
- Grant for pursuing doctoral studies, Universitat Autònoma de Barcelona, -, 2006-2008.

## AWARDS

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- Outstanding Area Chair, WACV, -, 2024.
- Honorary Lecturer, University of East Anglia, -, 2020-2023.
- Service Award, IS&T, -, 2022.
- Accreditation of Research Merits, ANECA-AQU, -, 2007-12.
- Accreditation of Research Merits, ANECA-AQU, -, 2013-18.
- Outstanding reviewer, CVPR, -, 2021.
- Outstanding reviewer, ICCV, -, 2021.
- Best technology transfer project for the patent: “Method and system for color gamut mapping” (with S. W. Zamir and M. Bertalmío), Universitat Pompeu Fabra, 10.000 €, 2017.
- Finalists JoInnovo 2020 (Livercolor project, with I. Gómez-Gavara, I. Bilbao and G. Piella), Vall d’Hebron Hospital, -, 2020.
- Selected for the Start-Ups pre-accelerator (Livercolor project, with I. Gómez-Gavara, I. Bilbao and G. Piella), Barcelona Activa, -, 2020.

## COMMITTEES AND ORGANIZATION ACTIVITIES

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- **Examiner on 11 PhD Thesis and 19 MSc Thesis.**
  - **Roberto Alcover-Couso**, PhD Thesis, Universidad Autónoma de Madrid (07/02/2025).
  - **Yixiong Yang**, PhD Thesis, Universitat Autònoma de Barcelona (13/10/2024).
  - **Shuwei Yue**, PhD Thesis, Polytechnical University of Hong Kong (20/08/2024).
  - **Cristian Izquierdo**, PhD Thesis, Universitat de Barcelona (18/07/2024)
  - **Ricardo Joaquín De Armas**, PhD Thesis, Universidad La Salle Bogotá (19/02/2024)
  - **Hassan Sial**, PhD Thesis, Universitat Autònoma de Barcelona (27/09/2021).
  - **Carola Figueroa**, PhD Thesis, Universitat Autònoma de Barcelona (08/03/2021).
  - **Lichao Zhang**, PhD Thesis, Universitat Autònoma de Barcelona (19/11/2019).
  - **Oriol Martínez**, PhD Thesis, Universitat Pompeu Fabra (04/02/2016).
  - **Marc Serra**, PhD Thesis, Universitat Autònoma de Barcelona (10/09/2015).
  - **Rao Anwer Muhammad**, PhD Thesis, Universitat Autònoma de Barcelona (16/07/2013).

*General chair in:*

- **Color and Imaging Conference**, Montreal, Canada (10/2024).
- **London Imaging Meeting**, Online (Originally London, United Kingdom) (09/2020).

*Program chair in:*

- **Color and Imaging Conference**, Paris, France (11/2023).

*Series chair in:*

- **London Imaging Meeting**, London, United Kingdom (09/2025).

*Member of the organizing committee in:*

- **London Imaging Meeting**, London, United Kingdom (07/2022).
- **Color and Imaging Conference**, Online (11/2021).
- **8th Annual catalan meeting in Computer Vision**, Online (09/2021).
- **Color and Imaging Conference**, Online (Originally Chiba, Japan) (11/2020).
- **7th Annual catalan meeting in Computer Vision**, Online (09/2020).
- **Color and Imaging Conference**, Paris, France (10/2019).
- **6th Annual catalan meeting in Computer Vision**, Barcelona, Spain (09/2019).
- **Color and Imaging Conference**, Vancouver, Canada (11/2018).
- **SIAM-IS mini-symposium on “Mathematical techniques for bad visibility restoration”**, Bologna, Italy (06/2018).
- **Color and Photometry in Computer Vision Workshop (in conjunction with ECCV)**, Firenze, Italy (10/2012).
- **CVC Workshop on Research and development**. Organizer (10/2011).

*Area chair in:*

- **CVPR** (2025).
- **WACV** (2025).
- **ECCV** (2024).
- **WACV** (2024).

*Member of the local committee in:*

- **Congrès Català d'Intel·ligència Artificial**. Local committee (10/2016).
- **3rd Annual catalan meeting in Computer Vision**. Local organizer (09/2016).
- **2nd Annual catalan meeting in Computer Vision**. Local organizer (09/2015).
- **1st Annual catalan meeting in computer Vision**. Local organizer (09/2014).
- **New Trends in Pattern Recognition for Motion Analysis (PRMA'08)**. Local committee (17/2008).

*Reviewer for:*

- Journals: IEEE-TPAMI, IJCV, SIAM-SIIMS, IEEE-TIP, IEEE-TCSVT, IEEE-TSP, Signal Processing, ISPRS P&RS, Optics Express, IEEE-TDSC, IEEE-SPL, CVIU, PRL, SP:IC, Plos One, The Visual Computer, JOSA-A, Applied Optics, IEEE Access, DSP, CRA, Sensors, Information, OE (SPIE), JARS (SPIE), ACM TOMM, CVMJ, JEI, Mult. Syst., EURASIP-JIVP, JIST, SN-Computer Science.
- Conferences: CVPR, ICCV, ECCV, AAAI, NeurIPS, BMVC, WACV, ACCV, CVM, CIC, VISAPP, WCPCV.

## **PARTICIPATION IN RESEARCH PROJECTS**

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**As Principal Investigator:**

- Research project with a major Phone Company, **PI:** Javier Vazquez-Corral **Start/End date:** 03/2024-02/2025, **Budget:** 91.000€, **Financed by:** Major Phone company.
- Multispectral Analysis and Color Imaging, **PI:** Javier Vazquez-Corral **Start/End date:** 02/2023-01/2026, **Budget:** 24.000€, **Financed by:** Catalan Government.
- Explainable & Interactive Visual Enhancement, **PI:** Javier Vazquez-Corral, L. Herranz **Start/End date:** 09/2022-08/2025, **Budget:** 130.500€, **Financed by:** Spanish Ministry of Science.
- In-camera Visibility Restoration, **PI:** Javier Vazquez-Corral, **Start/End date:** 10/2020-09/2023 (finished at 03/2021 due to PI changing institution), **Budget:** 181.500€, **Financed by:** Spanish Ministry of Science.

**As Researcher:**

- UAB-Cruïlla Chair in Artificial Intelligence in the Music and Arts, **PI:** Fernando Vilariño **Start/End date:** 03/2024-12/2026 , **Budget:** 598,640 €, **Financed by:** Spanish Ministry of Economic Affairs and Digital Transformation.



- LiverColor: an AI platform for liver transplant assessment. From transplantation to ambulatory screening, **PI:** Gemma Piella **Start/End date:** 11/2021-11/2023 , **Budget:** 100,000 €, **Financed by:** CaixaImpulse Validate, CI21-00064
- LiverColor, **PI:** Gemma Piella **Start/End date:** 05/2021-12/2021, **Budget:** 30,000€, **Financed by:** UPF Innovalora Project.
- LiverColor: Algoritmo de cuantificación de esteatosis hepática utilizando machine learning y procesamiento de imágenes (Hepatic steatosis quantification algorithm using machine learning and image processing) , **PI:** Imma Gomez-Gavara **Start/End date:** 08/2020-07/2022, **Budget:** 110,000€, **Financed by:** Fundación Mútua Madrileña.
- Gammavision: Gamut mapping technology based on vision models, **PI:** Marcelo Bertalmío **Start-End date:** 08/2018-01/2020, **Budget:** 150,000€, **Financed by:** European Research Council. Proof of Concept Grant.
- Gamut mapping for cinema, **PI:** Marcelo Bertalmío **Start-End date:** 04/2018-12/2018, **Budget:** 30,000€, **Financed by:** UPF Innovalora Project, ref: INNOV1715-1.
- SAUCE: Smart Asset re-Use in Creative Environments, **PI:** Marcelo Bertalmío, Josep Blat **Start-End date:** 01/2018-12/2020, **Budget:** 4,000,000€, **Financed by:** European Research Council: Horizon 2020, ref: 780470 .
- HDR4EU: Enabling End-to-End HDR Ecosystem, **PI:** Marcelo Bertalmío, Josep Blat, **Start-End date:** 07/2017-06/2020, **Budget:** 2,300,000€, **Financed by:** European Research Council: Horizon 2020, ref: 761544.
- Modelos de visión de contraste y color para cine, **PI:** Marcelo Bertalmío, **Start-End date:** 01/2016-12/2018, **Budget:** 64,493€, **Financed by:** Spanish Ministry of Science.
- Procesamiento de imágenes para realce de fotografía cinematográfica, **PI:** Marcelo Bertalmío, **Start-End date:** 01/2013-12/2015, **Budget:** 103,697€, **Financed by:** Spanish Ministry of Science.
- IP4EC: Image Processing for Enhanced Cinematography, **PI:** Marcelo Bertalmío, **Start-End date:** 10/2012-09/2017, **Budget:** 1,500,000 €, **Financed by:** European Research Council. Starting Grant 306337.
- Perceptual models for cinematography, **PI:** Marcelo Bertalmío, **Start-End date:** 10/2012-05/2014, **Budget:** 75,000€, **Financed by:** Spanish Ministry of Science.
- BioColTex: Introducción de información de color y mecanismos de atención a modelos bio-inspirados de visión por computador, **PI:** Maria Vanrell, **Start-End date:** 01/2011-12/2013, **Budget:** 123,000€, **Financed by:** Spanish Ministry of Science.
- Multimodal Interaction in Pattern Recognition and Artificial Vision, **PI:** Enrique Vidal, **Start-End date:** 01/2007-12/2011, **Budget:** 397,700€, **Financed by:** Spanish Ministry of Science.
- CREATE: Colour Research for European Advanced Technology Employment, **PI:** Carinna Parraman, **Start-End date:** 01/2007-12/2010 **Budget:** 532,363 €, **Financed by:** European Comission Marie Curie Actions FP6 mobility- Conference and Training Courses 45963.
- Colour Vision Content Management: modeling spatial perception and semantics, **PI:** Maria Vanrell, **Start-End date:** 01/2008-12/2010, **Budget:** 105,000€, **Financed by:** Spanish Ministry of Science.

## MISCELLANEOUS

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- My research has been showcased in more than 10 newspapers, including Ara, El Periódico, La Vanguardia, El País, La Razón.
- Radio interview at BTV Ràdio explaining the chances of winning the Christmas lottery (in Catalan) <http://www.btv.cat/btvnoticies/2015/12/22/javier-vazquez-matematic-la-loteria-es-limpost-dels-que-no-saben-matematicues/>
- TV interview at El Punt Avui TV explaining what is Computer Vision (in Catalan) [http://www.elpuntavui.tv/video.html?view=video&video\\_id=142291625](http://www.elpuntavui.tv/video.html?view=video&video_id=142291625).
- 7 talks to different Schools aiming at motivating teenagers to study STEM subjects.

## TEACHING

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### Post-graduate

*Joint Master: Universitat Autònoma de Barcelona, Universitat Oberta de Catalunya, Universitat Politècnica de Catalunya, Universitat Pompeu Fabra*

- Human Vision System and Perception:  
2024-2025: 2 hours.  
2023-2024: 2 hours.  
2022-2023: 2 hours.  
2021-2022: 2 hours.  
2020-2021: 2 hours.  
2019-2020: 2 hours.
- Image formation and color representation:  
2024-2025: 2 hours.  
2023-2024: 2 hours.  
2022-2023: 2 hours.  
2021-2022: 2 hours.  
2020-2021: 2 hours.  
2019-2020: 2 hours.

*Universitat Autònoma de Barcelona, Escola d'Enginyeria:*

- Photometric invariance (master):  
2012-2013: 2 hours.  
2011-2012: 2 hours.

*University of East Anglia, Computer Sciences School:*

- Computer Vision for Computational Photography (both undergraduate and masters):  
2010-2011: 25 hours.

### Undergraduate

*Universitat Autònoma de Barcelona, Escola d'Enginyeria:*

- Data Engineering:  
**2023-2024:** Theory, seminars and Labs: 38 hours.  
**2021-2022:** Theory, seminars and Labs: 50 hours.
- Programming Laboratory:  
**2024-2025:** Theory, seminars and Labs: 100 hours.  
**2023-2024:** Theory, seminars and Labs: 50 hours.  
**2021-2022:** Theory, seminars and Labs: 150 hours.
- Image Processing:  
**2021-2022:** Theory, seminars and labs: 40 hours.  
**2020-2021:** Seminars and Labs: 26 hours.
- Artificial Intelligence:  
**2011-2012:** Seminars and Labs: 52 hours.
- System Planning:  
**2011-2012:** Labs: 40 hours.
- Artificial Vision:  
**2011-2012:** Seminars and labs: 15 hours.
- Programming languages and algorithms:  
**2009-2010:** Theory: 45 hours. Labs: 112,5 hours.  
**2008-2009:** Labs: 125 hours.
- Data structure:  
**2007-2008:** Labs: 60 hours.  
**2006-2007:** Labs: 60 hours.

*Universitat Pompeu Fabra, Escola Superior Politècnica:*

- Linear Algebra:  
**2020-2021:** Theory: 28 hours. Practices: 12 hours.  
**2017-2018:** Theory: 28 hours. Coordination of the subject.  
**2016-2017:** Theory: 28 hours. Practices: 14 hours. Seminars: 12 hours.
- Image and video compression:  
**2017-2018:** Theory: 18 hours. Coordination of the subject.  
**2016-2017:** Theory: 18 hours. Coordination of the subject.  
**2015-2016:** Theory: 18 hours. Seminars: 8 hours. Coordination of the subject.
- Linear Algebra and Discrete Mathematics:  
**2015-2016:** Theory: 36 hours.  
**2014-2015:** Theory: 36 hours. Practices: 24 hours. Seminars: 16 hours.
- Mathematical Biomodelling:  
**2015-2016:** Seminars: 8 hours.
- Differential Equations:  
**2014-2015:** Seminars: 20 hours. Labs: 16 hours.

## TEACHING PROJECTS AND TEACHING TRAINING

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### *Participation in teaching projects:*

- “Més enllà de la simple bibliografia: Preparació d’uns apunts interactius d’Àlgebra Lineal.” **PI:** Vanesa Daza, **Budget:** 5.000 €, **Financed by:** PlaClik 2018-2019, Universitat Pompeu Fabra.
- “MATEScape: Ludificación aplicada para la mejora del aprendizaje.” **PI:** Luis Moris, **Budget:** 1.600 €, **Financed by:** PlaClik 2018-2019, Universitat Pompeu Fabra.
- “Redefinint la presencialitat a les assignatures de matemàtiques de la mà de Wiris i Piazza.” **PI:** Vanesa Daza, **Budget:** 4.500 €, **Financed by:** PlaClik 2016-2017, Universitat Pompeu Fabra.

### *Teaching training:*

- FDES Program (Formació Docent en Educació Superior) -7 ECTS credits-, Universitat Autònoma de Barcelona 2010.
- Certificat d’Aptitud Pedagògica, Universitat de Barcelona, 2006.

### *Seminars attended:*

- 3rd Morning Symposium on Teaching Innovation and Quality at ESUP/DTIC, UCA ETIC, 2016
- 5th Morning Symposium on Teaching Innovation and Quality at ESUP/DTIC, UCA ETIC, 2018

## PEER-REVIEWED JOURNAL PAPERS -JCR-

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33. G. Finlayson, **J. Vazquez-Corral**, and F. Fang, “Integrating the space of reflectance spectra”, *IEEE Transactions on Image Processing* **Accepted**, Accepted, 2025 (IF:10.8 ; Q1:9/353 (D1)).
32. N. Chahine, S. Ferradans, **J. Vazquez-Corral**, and J. Ponce, “Generalized portrait quality assessment”, *Pattern Recognition Letters* **189**, 122-128, 2025 (IF: 3.9; Q2: 65/197).
31. R. Gil-Rodriguez, **J. Vazquez-Corral**, M. Bertalmio and G. Finlayson, “Color Matching in the wild”, *Pattern Recognition* **154**, 110575, 2024 (IF: 7.5, Q1:25/352, D1).
30. D. Xue, **J. Vazquez-Corral**, L. Herranz, Y. Zhang and M. S. Brown, “Palette-based Color Harmonization via Color Naming”, *IEEE Signal Processing Letters* **31**, 1474-1478, 2024 (IF: 3.2, Q2:130/352).
29. **J. Vazquez-Corral**, G.D. Finlayson, and L. Herranz, “Improving the perception of low-light enhanced images”, *Optics Express* **32**, 5174-5190, 2024 (IF:3.2 , Q2: 36/119).
28. C. Gómez-Gavara -et al- (**My author order: 4/20**), “Enhanced artificial intelligence methods for liver steatosis assessment using machine learning and color image processing. LiverColor project.”, *Clinical Transplantation*. **38(10)**, e15465, 2024 (IF: 1.9, Q2:117/290).
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## BOOK CHAPTERS

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