Javier Vazquez-Corral

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

OVERVIEW

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 31 articles in top-ranked journals (26 of them as either first or second author) and 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

PhD Computer Science 2011
Universitat Autònoma de Barcelona, Barcelona, Spain
"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.

MSc Advanced Computer Science 2007
Universitat Autònoma de Barcelona, Barcelona, Spain

BSc+MSc (Spanish Licenciatura) Mathematics 2006
Universitat de Barcelona, Barcelona, Spain

APPOINTMENTS

Associate Professor Mar. 2021-
Universitat Autònoma de Barcelona, Barcelona, Spain

- Coordinate university subjects, preparing exams, and marking grades and reports.
- 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.
- Lead the research of graduate students and post-doctoral researchers advising them on research matters.
- Conduct top-notch research 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 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

Invited Scholar Sep. 2022-Aug. 2023
York University, Toronto, Canada

Visiting Postdoctoral researcher Jun. 2011-Jun. 2011
Simon Fraser University, Vancouver, Canada

Visiting Student Feb. 2010-May 2010
University of East Anglia, Norwich, United Kingdom

Visiting Student Apr. 2009-Jul. 2009
University of East Anglia, Norwich, United Kingdom

LANGUAGES

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

INDICATORS

JCR journals:

- 32 publications in JCR journals: 16 in Q1 journals (7 in D1: 1 IEEE-TPAMI, 5 IEEE-TIP, 1 SIAM-SIIMS, 1 PR), 10 in Q2. 12 as first author, 14 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:** 1544 citations, h-index=20, i10-index=33 (14/02/2025).
- **Scopus:** 871 citations, h-index=16, i10-index=23 (14/02/2025).

Direction of students:

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

Funding secured:

- Proyectos de Generación 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

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 grated (filled: 2017, granted: 2021).

INVITED TALKS

- 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

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

- 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 Economia 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

- 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

- **Examiner on** 9 **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).
  - **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**, Vancouver, 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, 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, BMVC, WACV, ACCV, CVM, CIC, VISAPP, WCPCV.

PARTICIPATION IN RESEARCH PROJECTS

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:

- 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

- 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-matematiques/

- 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.
- 7 talks to different Schools aiming at motivating teenagers to study STEM subjects.

TEACHING

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

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-

32. N. Chahine, S. Ferradans, **J. Vazquez-Corral**, and J. Ponce, "Generalized portrait quality assessment", **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).

27. G. Piella, N. Farré, D. Esono, M. Á. Cordobés, **J. Vazquez-Corral**, I. Bilbao and C. Gómez-Gavara, "LiverColor: An Artificial Intelligence Platform for Liver Graft Assessment", *Diagnostics* **14(15): 1654**, , 2024 (IF: 3.0, Q1:58/325).

26. D. Xue, **J. Vazquez-Corral**, L. Herranz, Y. Zhang and M. S. Brown, "Integrating High-Level Features for Consistent Palette-based Multi-image Recoloring", *Computer Graphics Forum -Pacific Graphics-* **42(7)**, e14964, 2023 (IF: 2.7 , Q2: 44/131).

25. Y. Sugito, **J. Vazquez-Corral**, T. Canham and M. Bertalmío, "Image quality evaluation in professional HDR/WCG production questions the need for HDR metrics", *IEEE Transactions on Image Processing* **31**, 5163-5177, 2022 (IF: 11.041, Q1: 12/276, D1).

24. A. Gomez-Villa, A. Martín, **J. Vazquez-Corral**, J. Malo and M. Bertalmío, "On the synthesis of visual illusions using deep generative models", *Journal of Vision* **Vol.22, 2.**, , 2022 (IF: 2.004, Q3: 44/61).

23. T. Canham, **J. Vazquez-Corral**, E. Mathieu and M. Bertalmío, "Matching visual induction effects on screens of different size", *Journal of Vision* **21(6):10**, , 2021 (IF: 2.004, Q3: 44/61).

22. S.W. Zamir, **J. Vazquez-Corral**, and M. Bertalmío, "Vision models for Wide Gamut Imaging in cinema", *IEEE Transactions on Pattern Analysis and Machine Intelligence* **43(5)**, 1777-1790, 2021 (IF: 24.314, Q1: 2/276, D1).

21. M. Bertalmío, A. Gomez, A. Martin, **J. Vazquez-Corral**, D. Kane and J. Malo, "Evidence for the intrinsically nonlinear nature of receptive fields in vision", *Scientific Reports* **10**, 16277, 2020 (IF: 4.380, Q1: 17/72).

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