Joost van de Weijer

Curriculum Vitae

Updated March 2026

Personal Details
name: Joost van de Weijer
Gender: Male
Nationality: Dutch
Place of birth: Kisii, Kenya
Date of birth: November 18, 1974

Office
Computer Vision Center Barcelona
Edifici O, Campus UAB
08193 Bellaterra, Cerdanyola (Barcelona)
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Research Interests

Deep learning, computer vision, lifelong learning, active learning, domain adaptation, continual learning, transfer learning, color imaging, object recognition

Current Position

Group Leader: Computer Vision Center Barcelona 2014-present
Leader of the Learning and Machine Perception (LAMP) group in the Computer Vision Center. The group has around 15 members (among which 3 senior researchers, around 3 postdocs and 9 PhD students) working on deep learning applied to computer vision.

Professional Experience

Senior Scientist: Computer Vision Center Barcelona 2013-2014
Senior scientist at the computer vision center. Main research on machine learning and computer vision.

Ramon y Cajal Fellow: Universitat Autònoma de Barcelona 2008-2012
Stationed at the Computer Vision Center Barcelona. Research in a number of projects related to color in computer vision, image processing and object recognition.

Marie Curie Intra-European Fellow (Postdoc): INRIA Rhône-Alpes 2005-2007
Conducting research on object recognition supervised by dr. Cordelia Schmid.

Ph.D. Student: University of Amsterdam 1999-2005
Conducted PhD research in the group of Prof. A.W.M. Smeulders under the supervision of T. Gevers on the subject of photometric invariance theory applied to object recognition.

Assistant Researcher: Delft University of Technology 1998
Adapted M.Sc. thesis research for journal publication.

Education

Ph.D. in Computer Science: University of Amsterdam ..... March, 2005
M.Sc. in Applied Physics: Delft University of Technology 1998

Projects, Principal Investigator

2025-2028: EXPLORA: Theoretical Foundations and Technological Advances for Future Expressive and Generalizable AI, Ministerio de Ciencia e Innovación (331kEuro).
2025-2026: Sustainable Continual Learning in Foundation Model Era, Generalitat de Catalunya (149k Euro)
2023-2026: Label-Efficient Continual Learning in Open World Scenarios (CLOWS), Ministerio de Ciencia e Innovacion (153kEuro).
2022-2024:Towards sustainable AI: Continual Learning for Energy-Efficient Training of Deep Neural Networks (CL-2E), Ministerio de Ciencia e Innovacion (260kEuro).
2020-2022: Knowledge Transfer for Deep Representations (DeepTR), Ministerio de Ciencia e Innovacion (78kEuro).
2016-2017: RUBSEE project SME-2: industrial project for computer vision for recycling (125KEuro,

subcontracted).
2017-2020: Generalitat de Catalunya, Suport als Grups de Recerca de Catalunya (SGR): Support for starting research groups (15KEuro).
2017-2020: Deep Multi-Task Learning for Object Recognition, Spanish Ministry of Education and Science: national support for travel, material, technical support for group (39KEuro).
2016-2018: Multimodal Multilingual Continuous Representation for Human Language Understanding (M2CR), Ministerio de Economia y Competitividad (88KEuro).
2014-2016: Closing the loop: bio-inspired top-down feedback for computational vision systems, Spanish Ministry of Education and Science: national support for travel, material, technical support for group (77KEuro).
2014-2015: Accurate color measurements from hand-held devices, Spanish Ministry of Education and Science, EXPLORA Tecnología project on multispectral data acquisition (36KEuro).
2014-2016: Generalitat de Catalunya, Suport als Grups de Recerca de Catalunya (SGR): Support for starting research groups (15KEuro).
2010-2013: Holistic color image understanding, Spanish Ministry of Education and Science: national support for travel, material, technical support for group (85KEuro).
2008-2011: European Re-integration Grant of the Commission of the European Union: support to start-up group (45 KEuro).

Participation in Research Projects and Network projects

ELLIOT project: European Large Open Multimodal Foundation Models for Scalable Robust Generalization (ELLIOT), Horizon Europe (1M). 2025-2028
RISE project: Cyber-Physical Systems for PEdagogical Rehabilitation in Special EDucation (Cyber), RISE project Funded by EU (19k). 2017-2021
CYTED project: Red Tematica Iberoamericana sobre aplicaciones TICs para Ciudades(TICs4CI) (funding managed by coordinator Angel Sappa, mainly for visits/research stays) 2018-2021
Consolider project: Multimodal Interaction in Pattern Recognition and Computer Vision (MIPRCV) National project on multimodal interaction combining research groups from Spain (total project budget for CVC 532 KEuro). Role: coordinated development of demonstrator. 2008-2012

Personal Competitive Fellowship

2013-2015: I3, competitive fellowship of the Spanish Ministry of Science.
2007-2012: Ramon y Cajal Fellowship, research Fellowship of the Spanish Ministry of Science (189 KEuro).
2005-2007: Marie-Curie Intra-European Fellowship of the Commission of the European Union (140 KEuro).

Technology Transfer Projects, Principal Investigator

2022-2023:Project on Image to Video Translation. Car Manufacturer. Principal investigator (95KEuro).
2021-2022:Project on Cycle GAN. Car Manufacturer. Principal investigator with Fei Yang (90KEuro).
2019-2022:Project on Continual Learning. Telecom Industry (Huawei HiSilicon). Principal investigator (1.424KEuro).
2018-2019:Project on Compressed Data. Car Manufacturer. Principal investigator with Antonio Lopez (161KEuro).
2018:Project on Active Learning. Car Manufacturer. Principal investigator with Antonio Lopez (178KEuro).
2017-2018:Continuous transfer learning and distilling. Car Manufacturer. Principal investigator with Antonio Lopez (50KEuro).
2017: Project on Lifelong Learning. Car Manufacturer. Principal investigator with Antonio Lopez(189KEuro).
2015-2016: Image similarity measure estimation with Deep Networks (60KEuro). EURECAT. Principal investigator together with Dimosthenis Karatzas.
2014-2015: Deep Learning and Computer Vision consultancy to Wide Eyes Technologies (5KEuro).
2015-2016: Computer vision consultancy to Wide Eyes Technologies (6KEuro).
2014-2015: Deep Learning and Computer vision consultancy to Sadako Technologies (5KEuro).

Mobility

Invited Professor: Laboratoire Hubert Curien, University Jean Monnet St.Etienne (1 month) 2014

Marie-Curie Fellow: Intra-European Fellowship at LEAR team INRIA Rhone-Alpes (30 months) 2005-2007
International Internship : Lawrence Berkeley National Laboratory, USA (3 months) 1997

Teaching

Lecturer: Universitat Autònoma de Barcelona 2024-current
Teach course on continual learning in Computer Vision Master UAB/UPC/UOC/UPF.

Instructor: Universitat Autònoma de Barcelona 2014-2017
Organize and teach practical course object recognition and deep learning in the master of Computer Vision.

Lecturer: Universitat Autònoma de Barcelona 2008-2013
Organize and teach in case-based object-recognition project at the master of Computer Vision and Artificial Intelligence.

Lecturer: Universitat Autònoma de Barcelona 2008-2010
Teach several classes on machine learning and object recognition at the master of Computer Vision and Artificial Intelligence.

Teaching Assistant: University of Amsterdam 1999-2003
Organized and supervised several Computer Vision labs.

Postdocs:
Serkan Sulun 2026-current
Omid Orang 2026-current
Dipam Goswami 2026-current
Fan Lyu 2025-current
Sandesh Kameth 2023-2025
Kai Wang 2022-2025
Fei Yang 2022-2023
Bartlomiej Twardowski 2019-2022
Yaxing Wang 2019-2021
Xia-lei Liu 2020
Lu Yu 2020
David Berga 2019-2020
Abel Gonzalez 2017-2019
Luis Herranz 2017-2020
Ramon Moreno 2014-2015

PhD students:
Dipam Goswami (Director) 2023-2026
Hector Laria Mantecón (Director) 2020-2025
Alexander Gomez Villa (Director) 2021-2024
Albin Soutif-Cormerais (Director) 2019-2024
Shiqi Yang (Director) 2019-2023
Chenshen Wu (Director) 2017-2023
Aitor Alvarez Gila (Director) 2017-2022
Kai Wang (Director) 2017-2022
Oguz Yazici (Director) 2017-2022
Javad Zolfaghari (Director) 2017-2021
Laura López (Director) 2015-2021
Carola Figueroa Flores (Director) 2016-2021
Marc Masana (Director) 2015-2020
Yaxing Wang (Director) 2015-2020
Xialei Liu (Director) 2016-2019

Lichao Zhang (Director) 2015-2019
Lu Yu (Director) 2015-2019
Aymen Azaza (Director) 2014-2018
Adrià Ruiz (Co-director) 2013-2017
Rao Anwer (Co-Director) 2009-2013
Shida Beigpour (Director) 2009-2013
Fahad Shahbaz Khan (Director) 2008-2011

Ongoing PhD students:
Salhi Salaheddine (Director) 2026-2030
Yiping Han (Director) 2025-2029
Christos Georgakilas (Director) 2025-2029
Tao Wu (Director) 2024-2028
Liying Wang (Director) 2024-2028
Dipam Goswami (Director) 2023-2027
Muhammad Atif Butt (Director) 2023-2027

Master students:
Laila Mohamed Aborizka 2025
Advait Dixit 2023
Dhananjay Nahata 2021
Maria Gil 2020
Jordi Puyoles 2019
Xialei Liu 2016
Arcadi Llanza 2016
Olaia Artieda Aguirre 2016
Sergi Canyameres Masip 2016
Marc Masana 2015
Esteve Cervantes 2015
Adria Ruiz Ovejero 2013
Long Long Yu 2013
Isaac Alonso 2012
Min Yong Yoon 2011
David Rojas Vigo 2009
Shida Beigpour 2009
Fahad Shahbaz Khan 2008
Juan Toledo 2008

Postgraduate Courses - Summerschools

Summer School: LOT2.0: Learning over Time Spring School. 2025
Instructor of Toward Lifelong Learning in Foundation Models (Castelldefels, Spain).

Summer School: IEEE - EURASIP Summer School on Signal Processing. 2025
Instructor of Toward Continual Learning in the Foundation Model Era (Toscana, Italy).

Summer School: AI-DLDA: International Summer School on Artificial Intelligence. 2025
Instructor of Toward Continual Learning in the Foundation Model Era (Udine, Italy).

Tutorial: Int. Conf. on Computer Vision (ICCV) in Barcelona. 2011
Instructor of the Color Image Understanding tutorial.

Tutorial: Deutsche Arbeitsgemeinschaft fur Mustererkennung (DAGM) in Darmstadt. 2010
Instructor of the Color in Computer Vision tutorial.

Tutorial: Int. Conference on Image Processing (ICIP) in Cairo. 2009
Instructor of the Color in Image and Video Processing tutorial.

Summer School: Computer Vision Center Barcelona 2008
Instructor at the New Trends in Pattern Recognition and Motion Analysis summer school.

Awards

Best Paper Award: 2022
Best paper award for paper 'Continually Learning Self-Supervised Representations with Projected Functional Regularization' at the 3rd Continual Learning Vision workshop at CVPR.

Runner-up Award: 2022
Runner-up aware for paper 'Towards Exemplar-Free Continual Learning in Vision Transformers: an Account of Attention, Functional and Weight Regularization' at the 3rd Continual Learning Vision workshop at CVPR.

Outstanding Area Chair Award: 2026
At the CVPR 2026.

Outstanding Reviewer Award: 2012-2105
At the CVPR 2012, ECCV 2012, and CVPR 2015.

Benchmark Event Awards

Multi-modal Aerial View Imagery Challenge: Translation Challenge: 2025
Winner at the CVPR IEEE Workshop on Perception Beyond the Visible Spectrum.

Continual Test-time Adaptation Challenge: 2023
Challenge innovation award at the Continual Test-time Adaptation for Semantic Segmentation and Object Detection.

Visual object tracking (VOT)- RGBT: 2019
Winner of the VOT-RGBT challenge. Joint submission with Linkoping University based on Multimodal fusion for end-to-end RGB-T tracking.

Multimodal Machine Translation: 2018
Winner of the Multimodal Machine Translation task for English-French (second for English-German) organized at the machine translation conference (WMT2018). Joint submission together with the University LeMans.

Multimodal Machine Translation: 2017
Winner of the Multimodal Machine Translation task organized at the machine translation conference (WMT2017). Joint submission together with the University LeMans.

Multimodal Machine Translation: 2016
Winner of the Multimodal Machine Translation task organized at the machine translation conference (WMT2016). Joint submission together with the University LeMans.

VOC PASCAL Challenge: 2012
Organized the VOC PASCAL challenge submission with a team of researchers from the Computer Vision Center and University of Amsterdam. *Honorable mention* for Image Classification.

VOC PASCAL Challenge: 2010
Organized the VOC PASCAL challenge submission with a team of 8 researchers from the Computer Vision Center. *Winner* of Image Segmentation. *Winner* of Action Recognition in Still Images.

VOC PASCAL Challenge: 2009
Organized the VOC PASCAL challenge 2009 submission with a team of 15 researchers from the Computer Vision Center. *Honorable mention (2nd position)* in image classification. *Runner-up award (2nd position)* in image segmentation.

VOC PASCAL Challenge: 2007
Winner of the VOC PASCAL challenge 2007 image classification benchmark. Complete team: M. Marszalek, C. Schmid, H. Harzallah, J. van de Weijer.

Professional Service

Area chair, International Conference on Machine Learning, ICML 2023, 2024,2025, 2026
Area chair, Computer Vision and Pattern Recognition, CVPR 2012, 2022, 2025, 2026
Area chair, European Conf. on Computer Vision, ECCV 2016,2018,2024
Area chair, Conference on Neural Information Processing Systems, NeurIPS .2021, 2022, 2023, 2026
Area chair, International Conference on Representation Learning, ICLR 2026
Area chair, IEEE/CVF Winter Conference on Applications of Computer Vision, WACV 2024
Senior Program Committee, Association Advancement of Artificial Intelligence, AAAI 2022
Area chair, British Machine and Vision Conference, BMVC 2019, 2020
Area chair, Int. Conf. on Computer Vision, ICCV 2015,2017
Area chair, Conf. on Lifelong Learning Agents, CoLLAs 2026
Area chair, Int. Conf. on Pattern Recognition, ICPR 2014,2016
Reviewer for workshop proposals Conference on Neural Information Processing Systems, NeurIPS 2023,2024,2025
Advisory Board, Member of the advisory board of Continual AI, ...2021-2024
Guest editor, Special Issue on Transformers for Multimodal Content Understanding, Transactions on Multimedia Computing Communications and Applications 2023
Associate editor, Editorial board of Computer Vision and Image Understanding (CVIU), 2016-2023
Guest editor, Special Issue on Intelligent Sensors and Computer Vision, Sensors, ...2020
Membership, Member of European Laboratory for Learning and Intelligent (ELLIS).....2021
Guest editor, Special Issue Color in Texture and Material Recognition, J. of Electric Imaging, 2016
Tutorial chair, Iberian conference on Pattern Recognition and Image Analysis, IBPRIA 2011

Organizer:

Workshop chair / Organizer, Efficient Multimodal Generative Models workshop in conjunction with ECCV (Malmö) 2026
Organizer of the Dagstuhl seminar on Deep Continual Learning in the Foundation Model Era ...2025
Workshop chair / Organizer, Second Workshop on Foundation Models in conjunction with CVPR (Nashville) 2024
Workshop chair / Organizer, New Ideas in Vision Transformers in conjunction with ICCV (Paris) 2023
Workshop chair / Organizer, Vision Transformers: Theory and Applications in conjunction with NeurIPS (Virtual / New Orleans) 2022
Workshop chair / Organizer, 5th Color and Photometry in Computer Vision Workshop in conjunction with ICCV (Chile), CPCV 2015
Workshop chair / Organizer, Color in Texture and Material Recognition Workshop in conjunction with ICIAP (Genova) 2015
Workshop chair / Organizer, 3nd Color and Photometry in Computer Vision Workshop in conjunction with ICCV (Sydney), CPCV 2013
Workshop chair / Organizer, 2nd Color and Photometry in Computer Vision Workshop in conjunction with ECCV (Florence), CPCV 2012
Workshop chair / Organizer, 1st IEEE Color and Photometry in Computer Vision Workshop in conjunction with ICCV (Barcelona), CPCV 2011
Workshop chair / Organizer, Color and Reflectance in Imaging and Computer Vision Workshop in conjunction with ECCV (Crete), CRICV 2010
Workshop chair / Organizer, IEEE Color and Reflectance in Imaging and Computer Vision Workshop in conjunction with ICCV (Kyoto), CRICV 2009

Technical Program Committees (reviewer):

NeurIPS 2024 Workshop Proposals Evaluator: 2023, 2024, 2025, 2026
Int. Conf. on Machine Learning (ICML): 2020, 2022
Int. Conf. on Learning Representations (ICLR): 2020-2022, 2024-2026
Neural Information Processing Systems (NeurIPS): 2007,2019,2020
Computer Vision and Pattern Recognition (CVPR): 2007, 2009-2020, 2023, 2024
European Conf. on Computer Vision (ECCV): 2008, 2010, 2012, 2014,2020, 2026
Int. Conf. on Computer Vision (ICCV): 2009, 2011, 2013, 2021,2025
Association for the Advancement of Artificial Intelligence (AAAI): 2021
ACM Multimedia : 2025

British Machine and Vision Conference (BMVC): 2012, 2013
Conference on Lifelong Learning Agents (CoLLAs): 2025
Int. Conf. on Image Processing (ICIP): 2004-2011, 2013, 2016, 2018
Int. Conf. on Pattern Recognition (ICPR): 2008, 2012, 2018, 2022
German Conference on Pattern Recognition (GCPR): 2013
Asian Conference on Computer Vision (ACCV): 2007, 2010
Conf. on Colour and Graphics (CGIV): 2010, 2012
Int. Conf. on Pattern Recognition Applications and Methods (IMAGAPP) : 2011, 2016
Int. Conf. on Computer Vision Theory and Application (VISAPP) : 2012, 2013, 2014, 2016, 2017
Winter Conference on Applications of Computer Vision (WACV): 2021, 2023
Machine Learning for Signal Processing (MLSP) : 2012
Int. Conf. on Multimedia & Expo (ICME05): 2005
ACM Siggraph Asia: 2016
Workshop on Continual Learning in Computer Vision (CVPR): 2021-2024
2nd Continual Causality Bridge Program at AAAI24 : .. 2023 Novel Benchmarks and Approaches for Real-World Continual Learning, ICIAP Workshop: 2021
ISPRS Workshop. Earth observation meets vision EARTHVISION (in conjunction CVPR): 2015-2017
Workshop on Feature Detectors and Descriptors, (in conjunction CVPR): 2009
Computational Color Imaging Workshop (CCIW): 2011, 2013, 2015
Workshop Deep Vision: Deep Learning for Computer Vision, (in conjunction CVPR):2014, 2015, 2016
IEEE Workshop on Visual Analysis beyond Semantics (VABS), (in conjunction CVPR): 2013

Keynotes/Invited Talks Workshops/Conferences:
Unsupervised Domain Adaption (**keynote**), ELLIS/ELISE workshop on AI for Extremes, Valencia 2023
Never Stop Learning: the Continual Learning of Deep Neural Networks, workshop red CYTED, Chile (remote) 2022
Source-Free Domain Adaptation: Towards Unsupervised Continual Learning, Workshop on Continual Learning in Computer Vision at CVPR 2022 2022
Exemplar free class incremental learning, Workshop on Continual Learning in Computer Vision at CVPR 2021 2021
Learning Deep Networks from Unlabeled Data, Huawei STW 2019, Huawei Chenzhen 2019
Learning from Rankings, BCN. AI, AI meeting in Barcelona, ... 2018
Domain-adaptive Networks, UPC TelecomBCN Deep Learning: Winter School Guest Lectures, . 2018
Thinking end-to-end in computer vision applications, Jornada Deep Learning, Tecnalia, Bilbao, . 2017
Color Features in the Era of Big Data, The Fifth Computational Color Imaging Workshop (CCIW 2015), St. Etienne, France, ... 2015.
Coloring Object Recognition, Reunión Grupo Temático Visión por Computador, Jornadas de Automatica, Valencia, Spain, ... 2014.
Combining Color and Shape for Object Recognition, The Fourth Computational Color Imaging Workshop (CCIW 2013), Chiba, Japan, ... 2013.
The Dichromatic Reflection Model - Future Research Directions and Applications, Int. Joint Conf. on Computer Vision, Imaging and Computer Graphics Theory and Applications (VISIGRAPP 2011), Vilamoura, Portugal (**keynote**), ... 2011.

Invited presentations and seminars:
Lifelong learning from foundation models, HP labs 2025
Towards Label-Efficient and Multi-Agent Continual Learning, IDEAS, Warsaw 2023
Projected Functional Regularization for Continual Learning, Dagstuhl on Deep Continual Learning 2023
Source-Free Domain Adaptation, Amazon, Seattle (remote) 2022
From Transfer Learning to Continual Learning, Artificial Intelligence International Institute, Barcelona 2022
From task to class incremental learning, Naver labs Europe, Grenoble (remote), ... 2021
Learning Neural Networks for Domains with Few Labels, Nothwestern Polytechnical University Xi'an, China 2019

Learning from Rankings, Telefonica Alpha Barcelona 2018
Learning Deep Networks from Unlabeled Data, Barcelona Supercomputing Center, ... 2018
Learning Deep Networks from ranked data, Universitat Pompeu Fabra 2018
Layer decomposition for Compression and Learning without Forgetting, Facebook Research Paris, 2018
Real Time Crowd Counting, World Mobile Congress, ... 2018
Domain-adaptive Deep Networks, Telefonica, Barcelona, ... 2017
Weakly Supervised Learning for Facial Expression Recognition, University of Edinburgh, ... 2016
Intrinsic Images for Color Image Understanding, Universite Jean Monnet St. Etienne, ... 2014
Color for Object Recognition, University of Erlangen-Nuernberg, ... 2014
Combining Color and Shape for Object Recognition, Universiteit van Amsterdam, ... 2013
Combining color and shape for bag of words representations, Universite Jean Monnet St. Etienne, 2013
Intrinsic Images for Color Image Understanding, Universitat Politecnica de Catalunya, Barcelona, 2012
Combining Color and Shape Information for Object Recognition, Delft University of Technology, 2012
Color Image Understanding in the Presence of Shadows and Specularities, Universitat Pompeu Fabra, Barcelona, ... 2012
Combining color and shape information for image classification, Ecole Normale Superior, Paris, . 2010
Bottom-up and top-down color attention for object recognition, Universitat de Valencia, ... 2010
Applying bottom-up and top-down color attention for improved bag-of-words based object recognition, INRIA, Grenoble, ... 2010
Photometric invariant color image understanding , Xerox Research Center Europe, Grenoble, ... 2010
Color in bag-of-words based object recognition, Multimedia and Geometry, Universiteit Utrecht, 2010
Coloring local feature extraction for object recognition, Computer Vision Center, Barcelona, ... 2006
Photometric invariant features, LEAR Team, INRIA Rhone-Alpes, ... 2005
Color features and local structure in images, Quantitative Imaging Group, Delft University of Technology, ... 2005

Member PhD Committees:
David Pujol at University of Barcelona 2026
Pranshu Malviya at Polytechnique Montreal 2026
Aniello Panariello at University of Modena and Reggio Emilia (reviewer) 2026
Wojtek Masarczyk at IDEAS Warsaw University of Technology 2025
Sanket Biswas at Universitat Autonoma de Barcelona, 2025 Attila Lengyel at the Delft University of Technology 2024
Petit Gregoire at the Ecole des Ponts ParisTech 2023
Marco Cotogni at the University of Pavia (reviewer), ... 2023
Guillaume Couairon at the Université Sorbonne 2023
Ali Furkan Biten at the Universitat Autonoma de Barcelona, ... 2022
Ekaterina Iakovleva at Universite Grenoble Alpes (INRIA Rhone-Alpes)..... 2022
Bojana Gajic at the Universitat Autonoma de Barcelona, ... 2021
Decky Aspandi Latif at the Universidad Pompeu Fabra de Barcelona, ... 2021
Hilda Alqasir at the Universite Jean Monnet de Saint-Etienne, ... 2020
Thomas Lucas at the Universite Grenoble Alpes (INRIA Rhone-Alpes), ... 2020
Ozan Caglayan at the Le Mans Université, ... 2019
David Berga at the Universitat Autonoma de Barcelona, ... 2019
Amaia Salvador at the Universitat Politecnica de Catalunya, ... 2019
Rada Deeb at the Universite Jean Monnet de Saint-Etienne, ... 2018
Cesar Roberto de Souza at the Universitat Autonoma de Barcelona, ... 2018
Arash akbarinia at the Universitat Autonoma de Barcelona, ... 2017
Davide Mazzini at the University of Milano-Bicocca (reviewer), ... 2017
German Ros at the Universitat Autonoma de Barcelona, ... 2016
Anestis Papazoglou at the University of Edinburgh, ... 2016
Edgar Simo-Serra at the Universitat Politecnica de Catalunya, ... 2015
Lin Gu at Australian National University (evaluator), ... 2014
Rahat Khan at the Universite Jean Monnet de Saint-Etienne, ... 2013
Javier Vazquez-Corral at the Universitat Autonoma de Barcelona, ... 2011
Jose M. Alvarez at the Universitat Autonoma de Barcelona, ... 2010

Arnau Ramisa at the Artificial Intelligence Research Institute de Barcelona, ... 2009
Robert Benavente Vidal at the Universitat Autonoma de Barcelona, ... 2007
Fransesc Tous Terrades at the Universitat Autonoma de Barcelona, ... 2006

Popular Press: Our research on color naming has been described in La Vanguardia, National Geographic (Spanish version), and covered in radio (RNE) and television (TV3) ..... July 2018

Our research on crowd counting has been described in over twenty newspapers and online news-sites and radio (CadenaSer,Catalunya Radio) and TV (Cuarto, TVE). Among the newspaper were El Pais, La Vanguardia, El Periodico, La Razon, ABC, Ara, Euronews. Folha de S.Paulo ..... March 2018

Our research on painting recognition has been described in eight Spanish newspapers and online news-sites , among which El Mundo, La Vanguardia, El Periodico, La Razon and Ara. .... November 2014

Publications

Publications Indices:

H-index (Google Scholar): 77
Number of Citations (Google Scholar): >28.000
Total number of peer-reviewed publications: over 150.
Publications at top conferences: 20 CVPR, 13 ICCV, 7 ECCV, 11 NeurIPS, 6 ICLR, 2 ICML.
Publications at top journals: 9 IEEE TPAMI, 8 IJCV, 14 IEEE TIP
See *Google Scholar* for full list.

Authored Books:

1. T. Gevers, A. Gijsenij, J. van de Weijer, J.M. Geusebroek, "Color in Computer Vision: Fundamentals and Applications." , Series in Imaging Science and Technology, Wiley-IS&T, 2012.

Selection of Journal Publications:

1. E.Aguilar, B. Raducanu, P. Radeva, J., CEDL+: Exploiting evidential deep learning for continual out-of-distribution detection, *Expert Systems with Applications*, 2025
2. M Cotogni, F Yang, C Cusano, AD Bagdanov, J van de Weijer, Gated class-attention with cascaded feature drift compensation for exemplar-free continual learning of vision transformers, *Internatnional Journal Computer Vision*, 2025
3. E. Verwimp, S. Ben-David, M. Bethge, .., J. van de Weijer, .., Continual learning: Applications and the road forward *Transactions on Machine Learning Research*, 2024
4. J Qin, K Wang, B Zou, L Zhang, J van de Weijer, Conditional Diffusion Model with Spatial-Frequency Refinement for SAR-to-Optical Image Translation, *IEEE Transactions on Geoscience and Remote Sensing*, 2024
5. C Tang, K Wang, J van de Weijer, J Zhang, Y Huang, AViTMP: A Tracking-Specific Transformer for Single-Branch Visual Tracking, *IEEE Transactions on Intelligent Vehicles*, 2024
6. Y Wang, A Gonzalez-Garcia, C Wu, L Herranz, FS Khan, S Jui, J. van de Weijer, Minegan++: Mining generative models for efficient knowledge transfer to limited data domains, *International Journal of Computer Vision*, 2024
7. S. Yang, Y. Wang, J. van de Weijer, L. Herranz, S. Jui, J. Yang, Trust your Good Friends: Source-free Domain Adaptation by Reciprocal Neighborhood Clustering. *IEEE Transactions on Pattern Analysis and Machine Intelligence*, 2023.
8. A. Gupta, S. Narayan, S. Khan, F.S. Khan, L. Shao, J. van de Weijer, Generative multi-label zero-shot learning. *IEEE Transactions on Pattern Analysis and Machine Intelligence*, 2023.

9. M. Masana, Liu, X., Twardowski, B., Menta, M., Bagdanov, A. D., van de Weijer, J. Class-incremental learning: survey and performance evaluation on image classification. *IEEE Transactions on Pattern Analysis and Machine Intelligence*, 2022.
10. L. Yu, X Liu, J Van de Weijer, Self-training for class-incremental semantic segmentation. *IEEE Transactions on Neural Networks and Learning Systems*, 2022.
11. S. Katakol, Elbarashy, B., Herranz, L., van de Weijer, J. and López, A.M.. Distributed learning and inference with compressed images. *IEEE Transactions on Image Processing*, 30, pp.3069-3083, 2021
12. Wang, Y., Herranz, L. and van de Weijer, J., Mix and match networks: Cross-modal alignment for zero-pair image-to-image translation. *International Journal of Computer Vision*, 128(12), pp.2849-2872, 2020
13. X Liu, J Van De Weijer, AD Bagdanov, "Exploiting unlabeled data in cnns by self-supervised learning to rank", *IEEE Transactions Pattern Analysis and Machine Intelligence*, vol. 41(8), pp.1862-1878, 2019.
14. M. Mozerov, J. Van De Weijer. One-view occlusion detection for stereo matching with a fully connected CRF model. *IEEE Transactions on Image Processing*, 28(6), pp.2936-2947, 2019.
15. L. Zhang ; A. Gonzalez-Garcia ; J. van de Weijer ; M. Danelljan ; F. Shahbaz Khan "Synthetic Data Generation for End-to-End Thermal Infrared Tracking" *IEEE Transaction on Image Processing*, vol 28 (4), 1837-1850, 2019
16. C.F. Flores, Gonzalez-Garcia, A., van de Weijer, J. and Raducanu, B. Saliency for fine-grained object recognition in domains with scarce training data. *Pattern Recognition*, 94, pp.62-73, 2019.
17. R.M. Anwer, F.S. Khan, J. van de Weijer, M. Molinier, J. Laaksonen, Binary patterns encoded convolutional neural networks for texture recognition and remote sensing scene classification", *ISPRS Journal of Photogrammetry and Remote Sensing*, vol. 138, 74-85, 2018
18. M. G. Mozerov and J. van de Weijer, " Improved Recursive Geodesic Distance Computation for Edge Preserving Filter.", *IEEE Transaction on Image Processing*, vol. 26(8):3696-3706, 2017.
19. M. G. Mozerov and J. van de Weijer, "Global color sparseness and a local statistics prior for fast bilateral filtering.", *IEEE Transaction on Image Processing*, vol. 24(12):5842-5832, 2015.
20. F. S. Khan, J. Xu, J. van de Weijer, A. D. Bagdanov, R. M. Anwer, and A. Lopez "Recognizing actions through action-specific person detection." *IEEE Transaction on Image Processing*, vol. 24(11):4422-4432, 2015.
21. M.G. Mozerov, J. van de Weijer "Accurate stereo matching by two-step energy minimization." *IEEE Transaction on Image Processing*, vol. 24(3):1153-1163, 2015.
22. F. S. Khan, J. van de Weijer, R. M. Anwer, M. Felsberg, C. Gatta "Semantic Pyramids for Gender and Action Recognition." *IEEE Transaction on Image Processing*, 23(8):3633–3645, 2014.
23. S. Beigpour, C. Riess, J. van de Weijer, E. Angelopoulou "Multi-Illuminant Estimation with conditional Random Fields." *IEEE Transaction on Image Processing*, vol 23(1):83-95, january 2014.
24. F. Khan, R.M. Anwer, J. van de Weijer, A. D. Bagdanov, A. M. Lopez, M. Felsberg, "Coloring Action Recognition in Still Images." *International Journal of Computer Vision*, vol. 105(3):205-221, 2013.
25. F. Khan, J. van de Weijer, M. Vanrell. "Modulating Shape Features by Color Attention for Object Recognition." *International Journal of Computer Vision*, vol 98(1):49-64, 2012.
26. Arjan Gijsenij, Theo Gevers, Joost van de Weijer. "Improving Color Constancy by Photometric Edge Weighting." *IEEE Transactions Pattern Analysis and Machine Intelligence*, vol. 34(5):918-929, 2012.
27. Noha M. Elfiky, Fahad Shahbaz Khan, Joost van de Weijer, Jordi Gonzalez. " Discriminative Compact Pyramids for Object and Scene Recognition." *Pattern Recognition*, vol. 45(4):1627-1636, 2012.
28. Xavi Boix, Josep Gonfaus, J. van de Weijer, Andrew Bagdanov, Joan Serrat, Jordi Gonzalez. "Harmony Potentials: Fusing Global and Local Scale for Semantic Image Segmentation." *International Journal of Computer Vision*, vol. 96(1):83-102, January 2012.

29. A. Gijsenij, Th. Gevers, J. van de Weijer. "Computational Color Constancy; Survey and Experiments." *IEEE Transaction on Image Processing*, vol. 20(9):2475-2489, 2011.
30. E. Vazquez, R. Baldrich, J. van de Weijer, M. Vanrell, "Describing Reflectance for Colour Segmentation Robust to Shadows, Highlights, and Textures." *IEEE Transactions Pattern Analysis and Machine Intelligence*, vol. 33(5):917-930, May 2011.
31. A. Gijsenij, Th. Gevers, J. van de Weijer. "Generalized Gamut Mapping using Derivative Structures for Color Constancy." *International Journal of Computer Vision*, vol. 86(2-3):140-151, January 2010.
32. J. van de Weijer, C. Schmid, J. Verbeek, D. Larlus. "Learning Color Names for Real-World Applications." *IEEE Transaction on Image Processing*, vol. 18(7):1512-1524, July 2009.
33. J. van de Weijer, Th. Gevers, A. Gijsenij. "Edge-Based Color Constancy." *IEEE Transaction on Image Processing*, vol. 16(9):2207-2214,September 2007.
34. J. van de Weijer, T. Gevers, A.D. Bagdanov. "Boosting Color Saliency in Image Features." *IEEE Transactions Pattern Analysis and Machine Intelligence*, vol. 28(1):150-156, January 2006.
35. J. van de Weijer, T. Gevers and A.W.M. Smeulders. "Robust Photometric Features from the Color Tensor." *IEEE Transaction on Image Processing*, vol. 15(1):118-127, January 2006.
36. J. van de Weijer and R. van den Boomgaard. "Least Squares and Robust Estimation of Local Image Structure." *International Journal on Computer Vision* , vol. 64(2/3):143-155, September 2005.
37. J. van de Weijer, T. Gevers and J.M. Geusebroek. "Edge and Corner Detection by Photometric Quasi-Invariants." *IEEE Transactions Pattern Analysis and Machine Intelligence*, vol. 27(4):625-630, April 2005.
38. J.M. Geusebroek, A.W.M. Smeulders and J. van de Weijer. "Fast Anisotropic Gauss Filtering." *IEEE Transaction on Image Processing* , vol. 12(8): 938-943, August 2003.
39. J. van de Weijer and L.J. van Vliet and P.W. Verbeek and M. van Ginkel. "Curvature Estimation in Oriented Patterns Using Curvilinear Models Applied to Gradient Vector Fields." *IEEE Transactions Pattern Analysis and Machine Intelligence* , 23(9):1035-1042, September 2001.

Selection of International Conference Publications:

1. S Li, K Wang, J van de Weijer, FS Khan, CL Guo, S Yang, Y Wang, J Yang "InterLCM: Low-Quality Images as Intermediate States of Latent Consistency Models for Effective Blind Face Restoration", **I**CLR 2025
2. T Liu, K Wang, S Li, J van de Weijer, FS Khan, S Yang, Y Wang, J Yang, "One-Prompt-One-Story: Free-Lunch Consistent Text-to-Image Generation Using a Single Prompt", **I**CLR 2025 (SPOTLIGHT)
3. S Li, T Hu, J Van de Weijer, FS Khan, T Liu, L Li, S Yang, Y Wang, M. Cheng, J. Yang "Faster Diffusion: Rethinking the Role of the Encoder for Diffusion Model Inference", **N**eurIPS 2024
4. T Hu, L Li, J van de Weijer, H Gao, FS Khan, J Yang, MM Cheng, K Wang, Y Wang, "Token Merging for Training-Free Semantic Binding in Text-to-Image Synthesis", **N**eurIPS 2024
5. A Gomez-Villa, D Goswami, K Wang, AD Bagdanov, B Twardowski, J. van de Weijer, "Exemplar-free Continual Representation Learning via Learnable Drift Compensation", **E**CCV 2024
6. MA Butt, K Wang, J Vazquez-Corral, J van de Weijer, "ColorPeel: Color Prompt Learning with Diffusion Models via Color and Shape Disentanglement", **E**CCV 2024
7. C Rota, M Buzzelli, J van de Weijer, "Enhancing Perceptual Quality in Video Super-Resolution through Temporally-Consistent Detail Synthesis using Diffusion Models", **E**CCV 2024
8. D Goswami, Y Liu, S Kamath, B Twardowski, J van de Weijer, "Resurrecting Old Classes with New Data for Exemplar-Free Continual Learning", **C**VPR 2024
9. S Li, J van de Weijer, T Hu, FS Khan, Q Hou, Y Wang, J Yang, "Not What You Don't: Image Content Suppression for Text-to-Image Diffusion Models", **I**CLR 2024

10. S Magistri, T Trinci, A Soutif-Cormerais, J van de Weijer, AD Bagdanov, "Elastic Feature Consolidation for Cold Start Exemplar-free Incremental Learning", **I**CLR 2024
11. K. Wang, F. Yang, S. Yang, M.A. Butt, J. van de Weijer, "Dynamic Prompt Learning: Addressing Cross-Attention Leakage for Text-Based Image Editing", **N**eurIPS 2023
12. D. Goswami, Y. Liu, B. Twardowski, J. van de Weijer, "FeCAM: Exploiting the Heterogeneity of Class Distributions in Exemplar-Free Continual Learning", **N**eurIPS 2023
13. L. Yuyang, C. Yang, G. Dipam, L. Xialei, J. van de Weijer, "Augmented Box Replay: Overcoming Foreground Shift for Incremental Object Detection", **I**CCV 2023
14. D. Rymarczyk, J. van de Weijer, B. Zieliński, B. Twardowski, " CICLE: Interpretable Class Incremental Continual Learning", **I**CCV 2023
15. S. Li, J. van de Weijer, Y. Wang, F. Shahbaz Khan, M. Liu, J. Yang, "3D-Aware Multi-Class Image-to-Image Translation with NeRFs", **C**VPR 2023
16. J. Xiao, C. Zhang, J. Feng. X. Liu, J. van de Weijer, M. Cheng, "Endpoints Weight Fusion for Class Incremental Semantic Segmentation", **C**VPR 2023
17. S Zini, A Gomez-Villa, M Buzzelli, B Twardowski, AD. Bagdanov, J van de Weijer, "Planckian Jitter: countering the color-crippling effects of color jitter on self-supervised training", **I**CLR 2023
18. S Yang, Y Wang, K Wang, S Jui, J Van de Weijer, "Attracting and Dispersing: A Simple Approach for Source-free Domain Adaptation", **N**eurIPS 2022 (SPOTLIGHT)
19. Y Wang, J Van de Weijer, L Yu, S Jui, "Distilling GANs with Style-Mixed Triplets for X2I Translation with Limited Data", **I**CLR 2022
20. S Yang, Y Wang, J van de Weijer, L Herranz, S Jui, "Exploiting the Intrinsic Neighborhood Structure for Source-free Domain Adaptation ", **N**eurIPS 2021
21. S Yang, Y Wang, J van de Weijer, L Herranz, S Jui, "Generalized Source-free Domain Adaptation", **I**CCV 2021
22. Y Wang, HL Mantecon, L Lopez-Fuentes, J Van de Weijer, B Raducanu, "TransferI2I: Transfer Learning for Image-to-Image Translation from Small Datasets", **I**CCV 2021
23. Y Wang, L Yu, J van de Weijer, "DeepI2I: Enabling Deep Hierarchical Image-to-Image Translation by Transferring from GANs", **N**eurIPS 2020
24. R Del Chiaro, B Twardowski, A Bagdanov, J van de Weijer, "RATT: Recurrent Attention to Transient Tasks for Continual Image Captioning", **N**eurIPS 2020
25. L Yu, B Twardowski, X Liu, L Herranz, K Wang, Y Cheng, S Jui, J. van de Weijer, "Semantic Drift Compensation for Class-Incremental Learning", **C**VPR 2020
26. Y Wang, S Khan, A Gonzalez-Garcia, J van de Weijer, FS Khan, "Semi-supervised Learning for Few-shot Image-to-Image Translation", **C**VPR 2020
27. Y Wang, A Gonzalez-Garcia, D Berga, L Herranz, FS Khan, J. van de Weijer, "MineGAN: effective knowledge transfer from GANs to target domains with few images", **C**VPR 2020
28. VO Yazici, A Gonzalez-Garcia, A Ramisa, B Twardowski, J van de Weijer, "Orderless Recurrent Models for Multi-label Classification", **C**VPR 2020
29. L Zhang, A Gonzalez-Garcia, J van de Weijer, M Danelljan, FS Khan, "Learning the Model Update for Siamese Trackers", **I**CCV 2019
30. HH Aghdam, A Gonzalez-Garcia, J van de Weijer, AM López, "Active Learning for Deep Detection Neural Networks", **I**CCV 2019
31. L Yu, VO Yazici, X Liu, J van de Weijer, Y Cheng, A Ramisa, "Learning Metrics from Teachers: Compact Networks for Image Embedding", **C**VPR 2019
32. C. Wu, L. Herranz, X. Liu, Y. Wang, J. van de Weijer, B. Raducanu, "Memory Replay GANs: learning to generate images from new categories without forgetting", In **N**eurIPS 2018
33. A. Gonzalez-Garcia, J. van de Weijer, Y. Bengio, "Image-to-image translation for cross-domain disentanglement", In **N**eurIPS 2018

34. Y. Wang, C. Wu, L. Herranz, J. van de Weijer, A. Gonzalez-Garcia, B. Raducanu, "Transferring GANs: generating images from limited data", In **E**CCV 2018
35. X. Liu, J. van de Weijer, A.D. Bagdanov, "Leveraging Unlabeled Data for Crowd Counting by Learning to Rank", In **C**VPR 2018
36. Y. Wang, J. van de Weijer, L. Herranz, "Mix and match networks: encoder-decoder alignment for zero-pair image translation", In **C**VPR 2018
37. M. Masana, J. van de Weijer, L. Herranz, A.D. Bagdanov, J.M. Alvarez, "Domain-adaptive deep network compression", In **I**CCV 2017
38. X. Liu, J. van de Weijer, A.D. Bagdanov, "RankIQA: Learning from Rankings for No-reference Image Quality Assessment", In **I**CCV 2017
39. A. Ruiz, J. van de Weijer, and X. Binefa, "From emotions to action units with hidden and semi-hidden-task learning", In **I**CCV 2015
40. Martin Danelljan, Fahad Shahbaz Khan, Michael Felsberg, Joost van de Weijer, "Adaptive color attributes for real-time visual tracking", In **C**VPR 2014
41. Rahat Khan, Joost van de Weijer, Fahad Khan, Damien Muselet, Christophe Ducottet, Cecile Barat, "Discriminative Color Descriptors", In **C**VPR 2013
42. F.Shahbaz Khan, R. R. Muhammad Anwer, J. van de Weijer, Andrew D. Bagdanov, Maria Vanrell, Antonio M. Lopez, "Color Attributes for Object Detection", In **C**VPR 2012
43. F.Shahbaz Khan, J. van de Weijer, M. Vanrell, "Portmanteau Vocabularies for Multi-Cue Image Representation", In **N**eurIPS 2011
44. S. Beigpour, J. van de Weijer, "Recoloring based on Intrinsic Image Estimation", In **I**CCV 2011
45. J. M. Gonfaus, X. Boix, J.van de Weijer, A. Bagdanov, J. Serrat, J. Gonzalez, "Harmony Potentials for Joint Segmentation and Classification", In **C**VPR 2010
46. F.Shahbaz Khan, J. van de Weijer, M. Vanrell, "Top-down Color Attention for Object Recognition", In **I**CCV 2009
47. A. Gijsenij, T. Gevers, J. van de Weijer, "Physics-based Edge Evaluation for Improved Color Constancy.",**C**VPR 2009
48. E. Vazquez, J. van de Weijer, R. Baldrich, "Image Segmentation in the Presence of Shadows and Highlights.",**E**CCV 2008 (ORAL)
49. J.van de Weijer, C. Schmid, J.J. Verbeek. "Using High-Level Visual Information for Color Constancy.", In **I**CCV 2007
50. J.van de Weijer, C. Schmid, J.J. Verbeek. "Learning Color Names from Real-World Images.", In **C**VPR 2007
51. J. van de Weijer, C. Schmid, "Coloring Local Feature Extraction.", In **E**CCV 2006
52. J. van de Weijer, T. Gevers. "Boosting Saliency in Color Image Features." In **C**VPR 2005
53. J. van de Weijer, T. Gevers, J. M. Geusebroek. "Color Edge Detection by Photometric Quasi-Invariants." In **I**CCV 2003 (ORAL)
54. J. M. Geusebroek, A. W. M. Smeulders, and J. van de Weijer. "Fast anisotropic gauss filtering" In **E**CCV 2002
55. J. van de Weijer and R. van den Boomgaard. "Local Mode Filtering." In **C**VPR 2001

Languages

Dutch (native), English (fluent), Spanish (advanced), French (advanced), German (advanced), Catalan (basics).