Javier Selva Castelló

javier.selvac@gmail.com

Education

2018–present **PhD in Computer Science** *Universitat de Barcelona*.

Thesis in progress*: Development of a Spatio-Temporal Coding System for Videos with Humans*.
Advisor: *Prof. Sergio Escalera Guerrero*

2015–2018 **Master of Science in Artificial Intelligence** *Universitat Politècnica de Catalunya*.

Thesis*: A Comprehensive Survey on Deep Future Frame Video Prediction*.
Advisor: *Prof. Sergio Escalera Guerrero*

2010–2015 **Bachelor in Computer Science** *Universitat Politècnica de València*.

Thesis*: Develpment of a sentiment analysis system on Twitter*.
Advisors: *Dr. Lluís Felip Hurtado Oliver & Dr. Ferran Pla Santamaría*

Publications (Google Scholar)

2023
- **J. Selva**, A. S. Johansen, S. Escalera, K. Nasrollahi, T. B. Moeslund and A. Clapés, *Video Transformers: A Survey*. In IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI 2023). doi: 10.1109/TPAMI.2023.3243465.

2021
- D. Curto*, A. Clapés*, **J. Selva***, S. Smeureanu, J.C.S. Jacques Junior, D. Gallardo-Pujol, G. Guilera, D. Leiva, T.B. Moeslund, S. Escalera and C. Palmero. *Dyadformer: A Multi-modal Transformer for Long-Range Modeling of Dyadic Interactions*. In Proceedings of the IEEE/CVF International Conference on Computer Vision Workshops (ICCVW 2021).
- C. Palmero*, **J. Selva***, S. Smeureanu*, J.C.S. Jacques Junior, A. Clapés, A. Moseguí, Z. Zhang, D. Gallardo-Pujol, G. Guilera, D. Leiva and S. Escalera. *Context-Aware Personality Inference in Dyadic Scenarios: Introducing the UDIVA Dataset*. In Proceedings of the IEEE Winter Conference on Applications of Computer Vision Workshops (WACVW 2021)

2018
- M. Oliu, **J. Selva**, S. Escalera. *Folded recurrent neural networks for future video prediction*. In Proceedings of the European Conference in Computer Vision (ECCV 2018)
- C. Palmero, **J. Selva**, M.A. Bagheri, S. Escalera. *Recurrent CNN for 3D Gaze Estimation using Appearance and Shape Cues*. In Proceedings of the British Machine Vision Conference (BMVC 2018)

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Academic Experience

Organizing

Co-organizer of the Workshop on Understanding Social Behavior in Dyadic and Small Group Interactions (DYAD), ICCV, 2021

Co-organizer of the ChaLearn LAP Challenge on Understanding Social Behavior in Dyadic and Small Group Interactions, ICCV, 2021

Reviewing for conferences

- International Conference on Computer Vision (ICCV '21)
- International Joint Conference on Artificial Intelligence (IJCAI '21)
- Conference on Computer Vision and Pattern Recognition (CVPR '21)
- International Conference on Learning Representations (ICLR '21)
- European Conference on Computer Vision (ECCV '20)
- International Conference on Pattern Recognition (ICPR '20)
- Conference on Computer Vision and Pattern Recognition (CVPR '20)
- AAAI Conference on Artificial Intelligence (AAAI '20)
- International Conference on Machine Learning (ICML '19)

Teaching Experience

2021-2022 **Lecturer** *Université Paris-Saclay* MSc on Artificial Intelligence, Computer Vision.
Lecture on Transformers for Computer Vision.

2018-2021 **Teaching Assistant** *Universitat de Barcelona*.

- Algorithms (364298)
- Advanced Algorithms (364300)

Work Experience

2018 **Research Assistant** *Care Respite* Barcelona.
Migrating automatic event detection app from Microsoft's Kinect to Intel's RealSense.

Computer Skills

Programming

- Python (● ● ●)
- MATLAB (● ● ○)
- Octave (● ○ ○)
- PyTorch (● ● ●)
- Tensorflow (● ○ ○)
- Caffe (● ○ ○)
- JAVA (● ● ○)
- C/C++ (● ● ○)
- Wolfram Mathematica (● ○ ○)

Other LaTeX, SQL, JavaScript, HTML5 and CSS

OS Linux (Ubuntu), Windows, OSx

Languages

Spansih **Native**

English **C1 Level** *Certificate in Advanced English (CAE)*

Catalan **C1 Level** *Mitjà per la Junta Qualificadora*

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