

Enrique Sanchez-Lozano, Ph.D.

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📄 <https://scholar.google.co.uk/citations?user=VLIQpIYAAAAJ>

Work Experience

Mar 2019 – Present 📌 **Senior Research Scientist.** Samsung AI Center - Cambridge, UK.
Sep 2016 – Mar 2019 📌 **Research Fellow.** Computer Vision Lab. University of Nottingham.
Apr 2013 – Oct 2014 📌 **Research Assistant.** Multimedia Technologies Group. University of Vigo.
Sep 2011 – Apr 2012 📌 **Visiting Researcher.** Human Sensing Lab. Carnegie Mellon University.
Oct 2009 – Apr 2013 📌 **Researcher.** Gradiant (Galician Tech Center in Advanced Telecomm)

Education

2014 – 2017 📌 **Ph.D. in Computer Science, University of Nottingham**
Thesis title: *Continuous Regression: A functional regression approach to real-time facial landmark tracking.*
2009 – 2011 📌 **M.Sc. in Signal Theory and Communications, University of Vigo** GPA 8.08/10
Thesis title: *Optimization techniques for Active Appearance Models.*
2004 – 2009 📌 **B.Sc. Telecommunication Engineering, University of Vigo, GPA 8.12/10**
Note: Five year program (BSc + MEng)

Relevant Publications

Journal Articles

- 1 Ntinou, I., **Sanchez, E.**, Bulat, A., Valstar, M. & Tzimiropoulos, G. (2021). A transfer learning approach to heatmap regression for action unit intensity estimation. *IEEE Transactions on Affective Computing*, (Accepted).
- 2 **Sánchez-Lozano, E.**, Tzimiropoulos, G., Martinez, B., De la Torre, F. & Valstar, M. (2018). A functional regression approach to facial landmark tracking. *IEEE Transactions on Pattern Analysis and Machine Intelligence*, 40(9), 2037–2050.
- 3 **Sánchez-Lozano, E.**, Martinez, B. & Valstar, M. F. (2016). Cascaded regression with sparsified feature covariance matrix for facial landmark detection. *Pattern Recognition Letters*, 73, 19–25.

Conference Proceedings

- 1 Bulat, A., **Sanchez-Lozano, E.** & Tzimiropoulos, G. (2021). Improving memory banks for unsupervised learning with large mini-batch, consistency and hard negative mining, In *Ieee international conference on acoustics, speech and signal processing (ICASSP 2021)*.
- 2 Mallis, D., **Sanchez, E.**, Bell, M. & Tzimiropoulos, G. (2020). Unsupervised learning of object landmarks via self-training correspondence, In *Advances in Neural Information Processing Systems (NeurIPS 2020)*.
- 3 **Sanchez, E.**, Bulat, A., Zaganidis, A. & Tzimiropoulos, G. (2020). Semi-supervised facial action unit intensity estimation with contrastive learning, In *Asian Conf. on Computer Vision (ACCV 2020)*.
- 4 Kusumam, K., **Sanchez, E.** & Tzimiropoulos, G. (2020). Unsupervised face manipulation via hallucination, In *25th Int'l Conf. on Pattern Recognition (ICPR 2020)*.

- 5 Song, S., **Sanchez, E.**, Shen, L. & Valstar, M. (2020). Self-supervised learning of dynamic representations for static images, In *25th Int'l Conf. on Pattern Recognition (ICPR 2020)*.
- 6 **Sanchez, E.** & Valstar, M. (2020). A recurrent cycle consistency loss for progressive face-to-face synthesis, In *15th IEEE International Conference on Automatic Face Gesture Recognition (FG 2020, Oral)*.
- 7 **Sanchez, E.** & Tzimiropoulos, G. (2019). Object landmark discovery through unsupervised adaptation, In *Advances in Neural Information Processing Systems (NeurIPS 2019)*.
- 8 **Sanchez, E.**, Tzimiropoulos, G. & Valstar, M. (2018). Joint Action Unit localisation and intensity estimation through heatmap regression, In *British Machine Vision Conf. (BMVC 2018)*.
- 9 Valstar, M. F., **Sánchez-Lozano, E.**, Cohn, J. F., Jeni, L. A., Girard, J. M., Zhang, Z., Yin, L. & Pantic, M. (2017). Fera 2017 - addressing head pose in the third facial expression recognition and analysis challenge, In *12th IEEE International Conference on Automatic Face Gesture Recognition (FG 2017)*.
- 10 **Sanchez-Lozano, E.**, Martinez, B., Tzimiropoulos, G. & Valstar, M. (2016). Cascaded continuous regression for real-time incremental face tracking, In *European Conf. on Computer Vision (ECCV 2016)*.
- 11 **Sanchez-Lozano, E.**, Argones-Rua, E. & Alba-Castro, J. (2013). Blockwise linear regression for face alignment, In *British Machine Vision Conf. (BMVC 2013)*.
- 12 **Sanchez-Lozano, E.**, De la Torre, F. & Gonzalez-Jimenez, D. (2012). Continuous regression for non-rigid image alignment, In *European Conf. on Computer Vision (ECCV 2012)*.

Talks and Teaching

Teaching

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|-------------|---|
| Nov 2018 | ■ Machine Learning G53MLE University of Nottingham. Lecture on Support Vector Machines |
| May 2018 | ■ Computer Vision G54VIS University of Nottingham. Lecture on Supervised Descent Method for Facial Landmark Detection |
| Nov 2017 | ■ Machine Learning G53MLE University of Nottingham. Lecture on Principal Component Analysis |
| 2015 – 2017 | ■ Teaching Assistant Machine Learning G53MLE, University of Nottingham. Lab assistant (Spring 2015 and Spring 2016) and Lab leader (Fall 2016 and Fall 2017) |

Talks



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| May 2017 | ■ School of Physics and Astronomy University of Nottingham Continuous Regression for Face Tracking. School of Mathematical Sciences seminar series |
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Miscellanea



Academic Activities

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| Rev: Journals | ■ TPAMI, IJCV, TAFRC, ImaVis, CVIU, MM Tools and Apps, IET Information Security |
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Miscellanea (continued)

- Rev: Confs.  CVPR (2020, **Outstanding reviewer**, 2021), NeurIPS (2020), ICML (2021), AAAI (2020 – 2021), WACV (2021), ACCV (2020), ICCV (2019, **Best Reviewer Award**, 2021), ECCV (2020), BMVC (2014–2019, **Outstanding reviewer 2015 and 2019**), FG (2017–2018), ICMI (2013–2017, **Best reviewer award 2016**), ICME (2015–2017), VCIP (2015–2017, **Outstanding reviewer 2016**), ISM (2015, 2017)
- Organisation  I co-organised, developed a baseline, and evaluated participants' systems, at FERA 2017. I also co-organised the AERFAI Summer School in Vigo in 2012

Scholarships

- 2014  **Vice-Chancellor's** Scholarship for Research Excellence (EU). University of Nottingham
- 2013  **Fundacion Pedro Barrie** Scholarship to do a 5-month Research Stay at the University of Nottingham

References

Available on Request