

# Federico Landi

*Ph.D. Candidate in Computer Vision and Deep Learning*

## Work Experience

- Since May 2022 **Deep Learning Engineer, Senior**, *Huawei Technologies*, Amsterdam Research Center.
- April–Sept. 2018 **Visiting Student**, *University of Amsterdam (UVA)*, Amsterdam, The Netherlands.  
During my visit at UvA, I focused on Anomaly Detection in surveillance videos under the supervision of Prof. Cees Snoek.

## Education

- 2018–2022 **Ph.D. Student**, *University of Modena and Reggio Emilia*.  
Advisor: Prof. Rita Cucchiara  
I got my Ph.D. in Computer Vision and Deep Learning at AlmageLab. My research lied at the intersection of computer vision, natural language processing, and robotics, in the amazing field of Embodied AI. In particular, my research efforts mainly focused on Vision-and-Language Navigation.
- 2018 **Master Degree in Computer Engineering**, *University of Modena and Reggio Emilia*.  
Final mark: 110/110 *cum laude*  
Thesis title: Exploring Locality in Anomaly Detection  
Advisors: Prof. Rita Cucchiara, Prof. Cees Snoek  
Awards: Best Master Thesis at UNIMORE, Science and Technology, 2018
- 2016 **Bachelor Degree in Computer Engineering**, *University of Modena and Reggio Emilia*.

## Skills

- Research Vision and other Modalities, Neural Networks, Deep Learning, Machine Learning
- Programming Python, Pytorch, Tensorflow, Keras, Git.

## Teaching Activities

- 2020–2021 Computer Architecture – Prof. Rita Cucchiara, Prof. Simone Calderara
- 2020 Machine Learning and Deep Learning – IFOA
- 2020 Deep Learning – Nuova Didactica

## Languages

- Italian **Mothertongue**
- English **C1** *Conversationally fluent*
- French **B2** *Good knowledge*

## Schools, Courses

- 2020 Advanced Course on Data Science and Machine Learning (ACDL), *Remote*, certificate
- 2019 International Computer Vision Summer School (ICVSS), *Scicli (RG), Italy*, certificate

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## Publications

- 2022 **Spot the Difference: A Novel Task for Embodied Agents in Changing Environments.**  
Federico Landi, Roberto Bigazzi, Marcella Cornia, Silvia Cascianelli, Lorenzo Baraldi, Rita Cucchiara  
International Conference on Pattern Recognition (ICPR 2022)
- 2021 **Embodied Navigation at the Art Gallery.**  
Roberto Bigazzi, Federico Landi, Silvia Cascianelli, Marcella Cornia, Lorenzo Baraldi, Rita Cucchiara  
International Conference on Image Analysis and Processing (ICIAP 2021)
- 2021 **Focus on Impact: Indoor Exploration with Intrinsic Motivation.**  
Roberto Bigazzi, Federico Landi, Silvia Cascianelli, Lorenzo Baraldi, Marcella Cornia, Rita Cucchiara  
IEEE Robotics and Automation Letters (RA-L)
- 2021 **Working Memory Connections for LSTM.**  
Federico Landi, Lorenzo Baraldi, Marcella Cornia, Rita Cucchiara  
Neural Networks (NEUNET)
- 2021 **Multimodal Attention Networks for Low-Level Vision-and-Language Navigation.**  
Federico Landi, Lorenzo Baraldi, Marcella Cornia, Massimiliano Corsini, Rita Cucchiara  
Computer Vision and Image Understanding (CVIU)
- 2021 **Out of the Box: Embodied Navigation in the Real World.**  
Roberto Bigazzi, Federico Landi, Marcella Cornia, Silvia Cascianelli, Lorenzo Baraldi, Rita Cucchiara  
International Conference on Computer Analysis of Images and Patterns (CAIP 2021)
- 2021 **Transform, Warp, and Dress: a new transformation-guided model for virtual try-on.**  
Matteo Fincato, Marcella Cornia, Federico Landi, Fabio Cesari, Rita Cucchiara  
ACM Transactions on Multimedia Computing, Communications, and Applications (TOMM)
- 2020 **VITON-GT: an image-based virtual try-on model with geometric transformations.**  
Matteo Fincato, Federico Landi, Marcella Cornia, Fabio Cesari, Rita Cucchiara  
International Conference on Pattern Recognition (ICPR 2020)
- 2020 **Explore and Explain: Self-supervised Navigation and Recounting.**  
Roberto Bigazzi, Federico Landi, Marcella Cornia, Silvia Cascianelli, Lorenzo Baraldi, Rita Cucchiara  
International Conference on Pattern Recognition (ICPR 2020)
- 2019 **Embodied Vision-and-Language Navigation with Dynamic Convolutional Filters.**  
Federico Landi, Lorenzo Baraldi, Massimiliano Corsini, Rita Cucchiara  
British Machine Vision Conference (BMVC 2019)
- 2019 **Anomaly locality in video surveillance.**  
Federico Landi, Cees Snoek, Rita Cucchiara  
ArXiv