

# Alex Costanzino

## Curriculum Vitae

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### Personal Information

Website <https://www.unibo.it/sitoweb/alex.costanzino>  
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Google Scholar [JEBAXEAAAAJ](https://scholar.google.com/citations?user=JEBAXEAAAAJ)

### Short Bio & Research Interests

PhD student in Computer Science and Engineering and Teaching Assistant at University of Bologna. My current research activity focuses on Artificial Intelligence and Deep Learning techniques for Computer Vision, in particular for Depth Estimation and Anomaly Detection & Segmentation.

### Education

- 2022 - ongoing **PhD in Computer Science and Engineering**  
at University of Bologna.
- 2020 - 2022 **Master's Degree in Artificial Intelligence**  
at University of Bologna,  
with a final mark of 110L/110.  
**Master Thesis** *Mitigating non-Lambertian surfaces issues in Stereo Matching with Neural Radiance Fields.* [<https://amslaurea.unibo.it/26933/>]
- 2017 - 2020 **Bachelor's Degree in Automation Engineering**  
at University of Bologna,  
with a final mark of 104/110.  
**Bachelor Thesis** *Machine learning. Principi teorici e applicazioni.*
- 2012 - 2017 **High School Diploma in Automation**  
at IIS Alessandro Volta, Sassuolo (MO), Italy,  
with a final mark of 100/100.  
**Winner of XXXI edition of Lucchese Prize.**

### Relevant Work Experience

- 2024 - ongoing **Visiting Researcher**  
at Torr Vision Group, University of Oxford.
- 2022 - 2022 **Research Intern for Master Thesis preparation**  
at Computer Vision LAB, University of Bologna.
- 2021 - 2022 **AI Software Analyst & Developer**  
at HPE Coxa srl, Modena (MO), Italy.
- 2019 - 2020 **Student Collaboration Activities**  
at Laboratorio di Automazione e Robotica, University of Bologna.

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## Teaching Activities

- 2022 - ongoing **Teaching Assistant**  
at University of Bologna.  
Teaching Assistant of the *Computer Vision and Image Processing* course for the Master's Degrees in Computer Engineering, Automation Engineering and Electronic Engineering.
- 2024 - ongoing **Teaching Assistant**  
at University of Bologna.  
Teaching Assistant of the *Image Processing and Computer Vision* course for the Master's Degrees in Artificial Intelligence.

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## Co-supervised Students

- Gasperini, Lucia *A real multi-view dataset for multimodal Anomaly Detection and Segmentation*, University of Bologna, Master's Degree in Artificial Intelligence [LM-DM270]
- Lella, Luigi *A synthetic multi-view dataset for multimodal Anomaly Detection and Segmentation*, University of Bologna, Master's Degree in Computer Engineering [LM-DM270]
- Aiezzo, Agostino *Test Time Training for Binary Anomaly Segmentation*, University of Bologna, Master's Degree in Artificial Intelligence [LM-DM270]
- Mancini, Letizia *Instance Segmentation of Non-Lambertian objects*, University of Bologna, Master's Degree in Computer Engineering [LM-DM270]
- Del Moro, Mirko *A Test Time Adaptation Protocol to improve Industrial Anomaly Detection and Segmentation*, University of Bologna, Master's Degree in Artificial Intelligence [LM-DM270]
- Caltabiano, Sofia *Creation of a dataset for Instance Segmentation of Transparent and Mirror surfaces*, University of Bologna, Internship in Automation Engineering [LM-DM270]
- Lo Russo, Andrea *Reti neurali monoculari per la stima della profondità di superfici non-Lambertiane*, University of Bologna, Master's Degree in Computer Engineering [LM-DM270]

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## List of Publications

- 2025 **Alex Costanzino**, Pierluigi Zama Ramirez, Giuseppe Lisanti, Luigi Di Stefano *SiM3D: Single-instance Multiview Multimodal and Multisetup 3D Anomaly Detection Benchmark*. [Under Review]
- 2025 **Alex Costanzino**, Pierluigi Zama Ramirez, Giuseppe Lisanti, Luigi Di Stefano *Learning to be a Transformer to Pinpoint Anomalies*. [Under Review]
- 2024 Pierluigi Zama Ramirez, **Alex Costanzino**, Fabio Tosi, Matteo Poggi, Luigi Di Stefano, Jean-Baptiste Weibel, Dominik Bauer, Doris Antensteiner, Markus Vincze et al. *TRICKY 2024 Challenge on Monocular Depth from Images of Specular and Transparent Surfaces*. [ECCV 2024 Workshops]
- 2024 Pierluigi Zama Ramirez, Fabio Tosi, Luigi Di Stefano, Radu Timofte, **Alex Costanzino**, Matteo Poggi, Samuele Salti, Stefano Mattoccia et al. *NTIRE 2024 Challenge on HR Depth from Images of Specular and Transparent Surfaces*. [CVPR 2024 Workshops]
- 2024 **Alex Costanzino**, Pierluigi Zama Ramirez, Mirko Del Moro, Agostino Aiezzo, Giuseppe Lisanti, Samuele Salti, Luigi Di Stefano *Test Time Training for Industrial Anomaly Segmentation*. [CVPR 2024 Workshops]
- 2024 **Alex Costanzino**, Pierluigi Zama Ramirez, Giuseppe Lisanti, Luigi Di Stefano *Multimodal Industrial Anomaly Detection by Crossmodal Feature Mapping*. [CVPR 2024]
- 2023 **Alex Costanzino**, Pierluigi Zama Ramirez, Matteo Poggi, Fabio Tosi, Stefano Mattoccia, Luigi Di Stefano *Learning Depth Estimation for Transparent and Mirror Surfaces*. [ICCV 2023]

- 2023 Pierluigi Zama Ramirez, Fabio Tosi, Luigi Di Stefano, Radu Timofte, **Alex Costanzino**, Matteo Poggi, Samuele Salti, Stefano Mattoccia et al. *NTIRE 2023 Challenge on HR Depth from Images of Specular and Transparent Surfaces*. [CVPR 2023 Workshops]
- 2023 Pierluigi Zama Ramirez, **Alex Costanzino**, Fabio Tosi, Matteo Poggi, Samuele Salti, Stefano Mattoccia, Luigi Di Stefano. *Booster: a Benchmark for Depth from Images of Specular and Transparent Surfaces*. [IEEE Transactions on Pattern Analysis and Machine Intelligence]

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## Organization of Workshops & Tutorials

### Workshops

- [W1] *TRICKY 2024: 2nd Transparent & Reflective objects In the wild Challenges*, **ECCV 2024** (Milan, Italy)  
[<https://sites.google.com/view/eccv24-tricky-workshop/>]
- [W2] *NTIRE 2024: 9th New Trends in Image Restoration and Enhancement Workshop and Challenges*, **CVPR Workshops 2024** (Seattle, Washington)  
[<https://cvlab-unibo.github.io/booster-web/ntire24>]
- [W3] *NTIRE 2023: 8th New Trends in Image Restoration and Enhancement Workshop and Challenges*, **CVPR Workshops 2023** (Vancouver, Canada)  
[<https://cvlab-unibo.github.io/booster-web/ntire>]