

# Luca Bertinetto

RESEARCH SCIENTIST/ENGINEER · COMPUTER VISION, MACHINE LEARNING

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## Education

### University of Oxford

PH.D. (D.PHIL) IN COMPUTER VISION, MACHINE LEARNING

- Focus on one-shot learning and object tracking.

Oxford, UK

Oct. 2014 - present

### Telecom ParisTech + Politecnico di Torino (double degree)

M.Sc. IN COMPUTER SCIENCE, ENGINEERING

- 110/110

Paris, FR + Torino, IT

Sep. 2010 - Mar. 2013

### Politecnico di Torino

B.Sc. IN COMPUTER SCIENCE, ENGINEERING

- 104/110

Torino, IT

Sep. 2007 - Sep. 2010

## Experience

### Twitter Inc.

RESEARCH SCIENTIST (INTERN)

- Object tracking from a single point initialization.

London, UK

Jun. 2017 - Sep. 2017

### Telecom Italia, Politecnico di Torino

RESEARCH ENGINEER

- Large scale image retrieval from video.

Torino, IT

May 2013 - Sep. 2014

### SAP Research labs

WEB ENGINEER (INTERN)

- Creation of a mobile-tailored interface for the consumption and analysis of business queries.

Paris, FR

Jun. 2012 - Jan. 2013

## Publications

### REFEREED

2017	<b>End-to-end representation learning for Correlation Filter based tracking</b> J. Valmadre*, L. Bertinetto*, J. Henriques, A. Vedaldi, P. Torr <a href="http://www.robots.ox.ac.uk/~luca/cfnet.html">www.robots.ox.ac.uk/~luca/cfnet.html</a>	CVPR, Honolulu
2016	<b>Fully-Convolutional Siamese Networks for Object Tracking</b> L. Bertinetto*, J. Valmadre*, J. Henriques, A. Vedaldi, P. Torr <a href="http://www.robots.ox.ac.uk/~luca/siamese-fc.html">www.robots.ox.ac.uk/~luca/siamese-fc.html</a>	ECCVw, Amsterdam
2016	<b>Learning feed-forward one-shot learners</b> L. Bertinetto*, J. Henriques*, J. Valmadre*, A. Vedaldi, P. Torr <a href="http://arxiv.org/abs/1606.05233">arxiv.org/abs/1606.05233</a>	NIPS, Barcelona
2016	<b>Staple: Complementary Learners for Real-Time Tracking</b> L. Bertinetto, J. Valmadre, O. Miksik, S. Golodetz, P. Torr <a href="http://www.robots.ox.ac.uk/~luca/staple.html">www.robots.ox.ac.uk/~luca/staple.html</a>	CVPR, Las Vegas
2014	<b>Shot-based object retrieval from video with compressed Fisher Vectors</b> L. Bertinetto, A. Fiandrotti, E. Magli <a href="http://porto.polito.it/2592668/1/1569925515.pdf">porto.polito.it/2592668/1/1569925515.pdf</a>	EUSIPCO, Lisbon

## PREPRINTS, REPORTS

- 2018 **Long-term Tracking in the Wild: A Benchmark**  
J. Valmadre\*, **L. Bertinetto\***, J. Henriques, R. Tao, A. Vedaldi, A. Smeulders, P. Torr, E. Gavves \*  
[oxuva.github.io](https://oxuva.github.io)
- 2015 **The Importance of Estimating Object Extent when Tracking with Correlation Filters**  
**L. Bertinetto**, J. Valmadre, O. Miksik, S. Golodetz, P. Torr  
[www.robots.ox.ac.uk/~luca/stuff/report\\_oacf.pdf](http://www.robots.ox.ac.uk/~luca/stuff/report_oacf.pdf)
- 2015-2017 **The visual object tracking (VOT) challenge results**  
[www.votchallenge.net](http://www.votchallenge.net)

## Honors & Awards

- 2018 **Finalist**, STEM for Britain @ House of Commons *London*
- 2017 **1st place**, Visual Object Tracking - real-time challenge *ICCV, Venice*
- 2015 **Light Fellow Scholarship**, St. Catherine's college *Oxford*

## Invited Talks

- May 2017 Workshop in honour of Takeo Kanade *Oxford*
- Mar. 2017 REWORK Deep Learning in Healthcare Summit *London*  
[www.youtube.com/watch?v=jZoUaIMMZ\\_0&t=3s](http://www.youtube.com/watch?v=jZoUaIMMZ_0&t=3s)
- Jan. 2016 British Machine Vision Association (BMVA) workshop *London*
- Oct. 2016 Visual Object Tracking (VOT) workshop *ECCV, Amsterdam*
- Sep. 2016 VALSE Webinar

## Referee Activity

TPAMI      CVPR      ICCV      TCSVT      TOM      TIP

## Skills

- Programming** Python, Javascript, C/C++, Matlab, Java
- Frameworks** PyTorch, TensorFlow, Matconvnet
- Languages** Italian (mother tongue), English (proficient), French (intermediate)