

Fabio Viola

Curriculum vitae

Jesus College
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Profile

Name Fabio
Surname Viola
Place of birth Padova, Italy
Date of birth August 3 1982
Gender Male
Citizenship Italian

Research Interests

Optimization, Image and Video models for Early Vision, Inference, Computational Photography and Computer Vision.

Education

Oct'07 – onwards **PhD Student in Computer Vision at the University of Cambridge**, working under the supervision of Professor Roberto Cipolla and Dr Andrew Fitzgibbon on resolution-independent image models for early vision and computational photography.

PhD Thesis

Title *Resolution-independent Image Models.* (under submission)
Advisors Professor Roberto Cipolla and Dr Andrew Fitzgibbon

May'07–Jul'07 **Visiting Researcher at the University of Cambridge Machine Intelligence Laboratory**, working under the supervision of Professor Roberto Cipolla.

Dec'04–Jun'07 **Laurea Specialistica (magna cum laude) in Automation Engineering, Università degli Studi di Padova.**

Master Thesis

Title *Classification and detection in video sequences using machine learning techniques.*
Advisor Dr Ruggero Frezza
Advisors in Oxford Dr David Capel and Dr Andrew Stoddart

Oct'01–Dec'04 **Laurea Triennale in Information Engineering, Università degli Studi di Padova.**

Undergraduate Thesis

- Title *Problemi di controllo LQ e stima ai minimi quadrati di tipo degenere.* (LQ control problems and least squares estimation)
- Advisor Professor Giorgio Picci

Work Experience

- Aug'11–Nov'11 **Visiting Researcher at Microsoft Research Cambridge**, under the supervision of Dr Andrew Fitzgibbon, working on resolution-independent image models.
- Oct'10–Jan'11 **Research intern at Microsoft Research Cambridge**, under the supervision of Dr Andrew Fitzgibbon, working on *DeStijl*, a unifying formulation for resolution-independent early vision.
- Feb'10–April'10 **Research intern at Microsoft Research Cambridge**, under the supervision of Dr Andrew Fitzgibbon and Dr John Winn, working on *Video Jigsaws*, a generative model for video editing.
- Aug'07–Sept'07 **Vacation Research Assistant in the Cambridge University Engineering Department**, working in the Geotechnical and Environmental Group in the Civil, Structural and Environmental Engineering Division on computer vision methods for underground infrastructure monitoring.
- Sept'06–Mar'07 **Research and Development intern at 2d3 ltd, Oxford**, involved, under the supervision of Dr David Capel and Dr Andrew Stoddart, in 2d3 Research and Development department on a project for fiducial detection in real time camera tracking.

Teaching Experience

- Lent Term 2010/2011 **Demonstrator, Cambridge University Engineering Department**, teaching *C++*.
- Michaelmas Term 2008/2009 **Supervisor, Jesus College, Cambridge**, teaching *Linear Systems and Control*.
- Lent Term 2007/2008 **Supervisor, Jesus College, Cambridge**, teaching *Probability Theory*.
- Michaelmas Term 2007/2008 **Supervisor, Jesus College, Cambridge**, teaching *Linear Systems and Control*.

Language Skills

- Italian **Mother Tongue**
- English **Fluent**
- French **Good**

January 2007 - IELTS Academic Module

Computer skills

- Mathematical analysis and simulation Matlab, Simulink

Application C++
development
OS Windows, OSX

References

- Professor Roberto Cipolla (rc10001@cam.ac.uk)
- Dr Andrew Fitzgibbon (awf@microsoft.com)
- Dr John Winn (jwinn@microsoft.com)
- Dr Gabriel Brostow (brostow@cs.ucl.ac.uk)

Publications

K. Chaiyasarn, T. K. Kim, F. Viola, R. Cipolla, and K. Soga. Image mosaicing via quadric surface estimation with priors for tunnel inspection. *IEEE International Conference on Image Processing*, 2009.

K. Soga, K. Chaiyasarn, F. Viola, J. Yan, A. Seshia, and R. Cipolla. Innovation in monitoring technologies for underground structures,. *Information Technology in Geo-Engineering, Proceedings of the 1st Internation Conference (ICITG)*, 2010.

F. Viola, A. Fitzgibbon, and R. Cipolla. Submission to CVPR 2012 - under review.

Interests

Science fiction, guitar and electric guitar amplification, swimming, Capoeira.