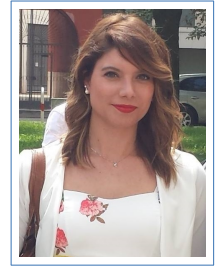


Cristina Segalin

PhD in Computer Science

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Short Research Summary

BSc in Multimedia Computer Science (2010), MSc in Engineering and Computer Science (2012), PhD in Computer Science (2016) at the Dept. of Computer Science of the University of Verona. Internship at IIT (Genova, Italy), School of Computing Science (Glasgow, Scotland), School of Computer Science (Birmingham, UK), Disney Research (Pittsburgh, PA). Now postdoc at Caltech (Pasadena, CA) under the supervision of Pietro Perona. My research interests mainly focus on Computer vision, Pattern Recognition, Social Signal Processing, Image/Video Processing, Social Media Analysis, Computational Aesthetics, Biometrics, Computational Ethology.

Personal Information

Date of Birth September 30, 1988
Nationality Italian
Current Position Postdoctoral Scholar

Education and Experience

Current Position

01/08/16 - Present **Postdoctoral Scholar**, *Dept. of Computing and Mathematical Sciences, Computational Vision Lab, California Institute of Technology, Pasadena, CA.*

- Topics: Pattern Recognition, Computer Vision, Computational Ethology
- Advisor: **Pietro Perona**

Education

01/01/13 - 12/31/15 **Ph.D. in Computer Science**, *Dept. of Computer Science, University of Verona, Italy.*

- Thesis title: A Social Signal Processing Perspective on Computational Aesthetics: Theories and Applications.
- Topics: Social Signal Processing, Pattern Recognition, Computer Vision, Computational Aesthetics, Social Media Analysis, Biometrics, Image Processing
- Advisor: **Marco Cristani**

10/01/10 - 07/17/12 **Master Degree in Computer Engineering and Computer Science**, *Dept. of Computer Science, University of Verona, Italy*, Curriculum: Visual Computing.

- Thesis title: Statistical analysis of Skype conversations: recognizing individual by their chatting style.
- Thesis topics: Re-identification, Social Signal Processing
- Advisors: Marco Cristani, Matteo Cristani
- Final degree mark *110/110*.

10/01/07 - 12/14/10 **Bachelor Degree in Multimedia Information Technology**, *Dept. of Computer Science, University of Verona, Italy.*

- Sistema di rilevamento automatico e riconoscimento volti: aspetti metodologici e pratici.
- Thesis topics: Face recognition, Re-identification
- Advisors: Umberto Castellani, Marco Cristani

- Final degree mark *100/110*.

2002 - 2007 **High School Diploma in Ragioneria and expert programmer.**

- Final mark *100/100*.
- Main school subjects: Computer Science, English, German, Ragioneria, Banking, Financial Mathematics, Political Economy, Finance and Law.

Internship and Visits

- Feb-Apr 2016 **Disney Research Internship**, *Disney Research*, Pittsburgh, PA, Tutor: Maarten Bos.
- Oct-Dec 2014 **UoB Internship**, *School of Computer Science*, Birmingham, UK, Academic Tutor: M. Cristani, Tutor: M. Musolesi.
- Apr-Aug 2013 **GLA. DCS Internship**, *School of Computing Science*, Glasgow, Scotland, Academic Tutor: M. Cristani, Tutor: A. Vinciarelli.
- Jun-Nov 2012 **IIT Internship**, *IIT Genova*, Genova, Tutor: V. Murino.
- Feb-Apr 2012 **VIPS Lab Internship**, *Computer Science Department*, University of Verona, Academic Tutor: M. Cristani, Tutor: U. Castellani.
- Sep-Dec 2010 **VIPS Lab Internship**, *Computer Science Department*, University of Verona, Academic Tutor: U. Castellani, Tutor: M. Cristani.

Awards and Grants

- Scholarship **ICVSS Best Presentation Award 2015** - International Computer Vision Summer School best poster presentation.
- PhD Grant **Erasmus Placement 2013** - Second in the list for four grants to be assigned to PhD students for placements in companies, facilities in one of the countries participants to the LLP program.
- Scholarship **PhD Scholarship** - University of Verona that support my PhD from Jan. 2013 to Dec 2015
- Student grant **Academic student excellence grant - AA. 2007-08**: The first year academic course grant is assigned to those students with excellent CV (at least 50 credits CFU at the end of the academic year).

Scientific Interests

Computer Vision, Machine learning, Pattern Recognition, Image and Video Processing, Computational Aesthetics, Social Signal Processing, Non-Verbal Behavior Analysis, Social Media Analysis, Human-Computer Interaction, Deep Learning, Neuroscience, Behavioral Science, Computational Ethology

Selected Talks

- 25th Feb 2016 Computational Aesthetics for Multimedia, a Social Signal Processing Perspective - Caltech, Pasadena, California
- 29th Oct 2015 Computational Aesthetics for Multimedia - UNSW School of Psychology, Sydney, Australia
- 27th Oct 2015 Computational Aesthetics for Multimedia - UTS, Sydney, Australia
- 21st Oct 2015 Computational Aesthetics for Multimedia - NICTA, Canberra, Australia
- 17th July 2015 ICVSS oral presentation for best poster presentation award - Sicily (Italy)
- 19th Feb 2015 PhD Day presentation - Lente Didattica, Policlinico G.B. Rossi, P.le L.A. Scuro, B.go Roma, Verona (Italy)
- 1st Oct 2014 Deep Learning Applications – Department of Computer Science, University of Verona, Verona, Italy

- 15th Jul 2014 Introduction to Deep Learning – Department of Computer Science, University of Verona, Verona, Italy
- 26th Feb 2014 PhD Day presentation - Lente Didattica, Policlinico G.B. Rossi, P.le L.A. Scuro, B.go Roma, Verona (Italy)

Attended Courses

- 12th -18th July 2015 International Computer Vision Summer School, Sicily, Italy - Lecturers: Yoshua Bengio, Thomas Brox, Daniel Cremers, Rene Vidal, Takeo Kanade, Doris Tsao, Stefano Soatto, Fei-Fei Li, Cees Snoek, Andrea Vedaldi, Matthew Zeiler, Stéphane Mallat, <http://svg.dmi.unict.it/icvss2015/>
- 19th - 21st May 2015 11th VIPS Advanced school on Computer Vision and Pattern Recognition - Department of Computer Science, Verona,Italy - Lecturer: Marco Loog
- Mar - Jun 2014 Advanced Pattern Recognition Systems – Department of Computer Science, Verona, Italy - Lecturer: Prof. Marco Cristani
- 23rd - 26th Sept 2013 10th VIPS Advanced School on CVPR and IP – Department of Computer Science, Verona, Italy - Speaker: Prof. Robert Duin, Delft University of Technology, <http://vips.sci.univr.it/html/VIPS10/>
- 18th - 20th Sept 2013 4th Pavis School on CVPR and IP on Component Analysis methods for Human Sensing – Sestri Levante, Genova, Italy - Speakers: Andrew Zisserman and Andrea Vedaldi, <http://www.iit.it/en/pavis-schools/schoolpavis2012.html>
- 3rd - 7th Jun 2013 SSPNet summer school - Vietri sul Mare, Salerno, Italy - Speakers: Alessandro Vinciarelli, Kerstin Dautenhahn, Adam Kendon, Nicu Sebe, Philippe Schyns, Jan Peter de Ruiter, Bjoern Schuller, Louis-Philippe Morency, <http://www.dcs.gla.ac.uk/~vincia/sspschool/index.html>
- 25th - 27th Mar 2013 Mixed-effects models: Fondamenti teorici e applicazioni in R - University of Verona, Department of Computer Science, Verona, Italy
- 23rd - 27th Sept 2012 3rd PAVIS Advanced School on Component Analysis methods for Human Sensing - Sestri Levante, Genova, Italy, <http://www.iit.it/en/pavis-schools/schoolpavis2012.html>

Additional Information

- Reviewer ACCV, ICCV, PLOS ONE, NEUROCOM, IEEE Multimedia
- Member IEEE Signal Processing
- Conferences Asian Conference on Computer Vision 2014, Singapore
IEEE International Conference on Image Processing 2014, Paris, France
- Supervision Francesca Zerbato, University of Verona, Verona, Italy - Master's project
Luca Brunelli, University of Verona, Verona, Italy - Master's Thesis
Marco Fanini, University of Verona, Verona, Italy - Master's Thesis
Walter Riviera, University of Verona, Verona, Italy - Master's Thesis
Elena Boschetti, University of Verona, Verona, Italy - Master's Thesis

Computer skills

- Coding Advanced: Matlab, \LaTeX
Intermediate: HTML, CSS, Python, R
Basic: SystemC, VHDL, C/C++, Assembly, SIS, SQL, Java, Visual Basic, Javascript, PHP, Scala
- Multimedia/Design Intermediate: Photoshop, Illustrator, Maya

Basic: Zbrush, Mudbox, Sculptris, Blender, Unity, After Effects, Premiere, 3DstudioMax
Tools ARToolkit, PRTools, Flickr API, Twitter API, Caffe, Processing
OS All Microsoft OS's, Linux based system
Miscellaneous Microsoft Office Suite, Open Office Suite, ECDL Certification in 2006

Languages

Italian Mother tongue
English Reading and comprehension: Fluent
Writing and speaking: Fluent
German Reading and comprehension: Pre-intermediate
Writing and speaking: Pre-intermediate

Qualities

Personal skills Inclined to analyze both theoretical and practical problems, able to solve them by employing novel concepts, good communication, eager to learn and develop new skills. Good software engineering abilities.
Experience with High level programming languages, digital design flow, validation and testing techniques, scripting languages, web interface development.
Interpersonal skills Strong ability to blend in new contexts, good skills in teamwork, good organizational abilities, dynamism, desire for learning, extrovert.
Driving license Category B.
Hobby and Sport Photo editing and photography, watching tv series and movies, figure roller-skating (practiced for 4 years), swim (practiced for 10 years at competitive level), gold medal in high jump (2005-2007) and long jump (2005-2006) at regional competitions.

Reference List

Pietro Perona California Institute of Technology, Pasadena, CA. Supervisor of Postdoc. perona@caltech.edu
Marco Cristani University of Verona, Verona, Italy. Supervisor of the PhD and the Master's Thesis at the University of Verona. marco.cristani@univr.it
Alessandro Vinciarelli School of Computing Science, University of Glasgow (Glasgow) and Idiap Research Institute (Switzerland). Supervisor during the internship at the School of Computing Science, University of Glasgow. vincia@dcs.gla.ac.uk
Mirco Musolesi School of Computer Science, University of Birmingham (UK). Supervisor during the internship at the School of Computing Science, University of Birmingham. m.musolesi@cs.bham.ac.uk

Publications

Submitted Papers

- [S1] **C. Segalin**, A. Vinciarelli, M. Cristani and M. Musolesi. 'Visual Contagion: Understanding the Influence of Textual, Visual and Social Cues on Information Propagation in Twitter'. In: *Nature Human Behavior* (2016).
- [S0] **C. Segalin**, F. Celli, B. Lepri, M. Kosinski, M. Cristani and L. Polonio. 'What your Facebook Profile Picture Reveals about your Personality: A Feature-based Approach'. In: *Proceedings of the World Wide Web Conference* (2016).

Journal Papers

- [J-9] **C. Segalin**, D. Cheng and M. Cristani. 'Social Profiling through Image Understanding: Personality Inference using Convolutional Neural Networks'. In: *Computer Vision and Image Understanding* (2016).
- [J2] **C. Segalin**, A. Perina, M. Cristani and A. Vinciarelli. 'The pictures we like are our Image: Continuous mapping favorited pictures into self-assessed and attributed personal traits'. In: *IEEE Transactions on Affective Computing* (2015).
- [J1] P. Lovato, M. Bicego, **C. Segalin**, A. Perina, N. Sebe and M. Cristani. 'Faved! Biometrics: Tell Me Which Image You Like and I'll Tell You Who You Are'. In: *IEEE Transactions on Information Forensics and Security* 9.3 (2014), pp. 364–374.

Conference Papers

- [C11] **C. Segalin**, A. Perina and M. Cristani. 'Biometrics on Visual Preferences: a "Pump and Distill" Regression Approach'. In: *IEEE International Conference on Image Processing*. 2014.
- [C10] **C. Segalin**, A. Perina and M. Cristani. 'Personal Aesthetics for Soft Biometrics: a Generative Multi-resolution Approach'. In: *Proceedings of the International Conference on Multimodal Interaction*. 2014.
- [C9] **C. Segalin**, A. Perina and M. Cristani. 'Recognizing People by Their Personal Aesthetics: a Statistical Multi-level Approach'. In: *Proceedings of the Asian Conference on Computer Vision*. 2014.
- [C8] M. Cristani, A. Vinciarelli, **C. Segalin** and A. Perina. 'Unveiling the multimedia unconscious: Implicit cognitive processes and multimedia content analysis'. In: *Proceedings of the ACM international conference on Multimedia*. ACM. 2013, pp. 213–222.
- [C7] P. Lovato, A. Perina, D. S. Cheng, **C. Segalin**, N. Sebe and M. Cristani. 'We like it! Mapping image preferences on the counting grid.' In: *IEEE International Conference on Image Processing*. 2013, pp. 2892–2896.
- [C6] A. Pesarin, M. Tait, A. Vinciarelli, **C. Segalin**, G. Bilancia and M. Cristani. 'Generative modelling of dyadic conversations: characterization of pragmatic skills during development age'. In: *Multimodal Pattern Recognition of Social Signals in Human-Computer-Interaction*. 2013, pp. 1–8.
- [C5] G. Roffo, **C. Segalin**, A. Vinciarelli, V. Murino and M. Cristani. 'Reading between the turns: Statistical modeling for identity recognition and verification in chats'. In: *IEEE International Conference on Advanced Video and Signal Based Surveillance*. IEEE. 2013, pp. 99–104.
- [C4] G. Roffo, M. Cristani, F. Pollick, **C. Segalin** and V. Murino. 'Statistical Analysis of Visual Attentional Patterns for Video Surveillance'. In: *Progress in Pattern Recognition, Image Analysis, Computer Vision, and Applications*. 2013, pp. 520–527.
- [C3] **C. Segalin**, A. Pesarin, A. Vinciarelli, M. Tait and M. Cristani. 'The expressivity of turn-taking: Understanding children pragmatics by hybrid classifiers'. In: *International Workshop on Image Analysis for Multimedia Interactive Services*. IEEE. 2013, pp. 1–4.
- [C2] M. Cristani, G. Roffo, **C. Segalin**, L. Bazzani, A. Vinciarelli and V. Murino. 'Con conversationally-inspired stylometric features for authorship attribution in instant messaging'. In: *Proceedings of the International Conference on Multimedia*. ACM. 2012, pp. 1121–1124.
- [C1] M. Tait, M. Cristani, A. Pesarin, **C. Segalin** and G. Bilancia. 'Lo sviluppo delle competenze pragmatica tra i 3 e gli 8 anni'. In: *XXI Congresso Nazionale AIRIPA, Bari*. 2012.