

# Cristina Segalin

Postdoc at Caltech

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## Short Bio

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 (Italy). Visiting student at School of Computing Science (Glasgow, Scotland), School of Computer Science (Birmingham, UK), Intern at IIT (Genova, IT), Disney Research (Pittsburgh, PA). Currently Postdoc at CalTech (Pasadena, CA).

Research interests: Machine Learning (Deep Learning), Computer Vision (Image/Video Processing, Computational Aesthetics, Tracking, Action Recognition), Re-Identification, NLP, Social Signal Processing (Affective Computing, Verbal and Nonverbal Behavior Analysis), Social Media Analysis, Big Data, Biometrics, Psychology, Neuroscience, Computational Ethology, Virtual and Augmented Reality, Human Computer Interaction.

## Current Position

08/01/16 - Present **Postdoctoral Scholar**, *California Institute of Technology, Pasadena, CA.*

- Topics: Machine Learning, Computer Vision, Computational Ethology, Neuroscience (Deep Learning, Tracking, Action Recognition)

## Education

### Education

01/13 - 12/15 **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

10/10 - 07/12 **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

10/07 - 12/10 **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

## 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 supported my PhD from Jan. 2013 to Dec 2015

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## Scientific Interests

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## Additional Information

Reviewer	NIPS, ACCV, ICCV, CVPR, ECCV, CHI, PLOS ONE, NEUROCOM, IEEE Multimedia, Affective Computing, AIMed
Journals	IEEE Transaction on Affective Computing, IEEE Transaction on Information Forensics and Security, Computer Vision Image Understanding
Conferences	APS17, ACMMM17/12, WIML16, ICMI16/14, ACCV14, ICIP14/13, ACMMMBNI13, CIARP13, AVSS13, ICPR13, WIAMIS12
Supervision	Francesca Zerbato, Luca Brunelli, Marco Fanini, Walter Riviera, Elena Boschetti - University of Verona, Verona, Italy Zack Polizzi, David Mace, Jennifer Sun - CalTech, Pasadena, CA

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## Skills

Coding	Matlab (>8 years), Python (>2 year), R, C++/C#, HTML, CSS, Javascript, PHP, Java, SystemC, VHDL, Assembly, SIS, SQL, Visual Basic
Multimedia/Design	Photoshop, Illustrator, After Effects, Blender, Unity3D, 3ds Max, Maya
Tools	Tensorflow, Caffe, MatConvNet, PyTorch, L <sup>A</sup> T <sub>E</sub> X, git, bash scripting, ARToolkit, PRTools, Flickr API, Twitter API, Processing
OS	All Microsoft OS's, Linux, Mac OS's based system
Languages	Italian, English, German

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## 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, data visualization.
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, Virtual/Augmented Reality and Brain Computer Interfaces game development, watching tv series and movies, reading books, yoga, running, 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.

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## Press

- 5 Lessons to Learn from a Disney Research Scientist - *DMN*
- Disney's Deep Dive on Personality Research, and Its Potential Implications for Brand Marketers - *Street Fight*

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## Presentations

- 13th Feb 2018 Social Profiling through Image Understanding - Legendary Analytics - Boston, MA
- 13th Feb 2018 Unveiling the Multimedia Unconscious: Implicit Cognitive Processes and Personality Inference through the Images we Like - MIT Media Lab - Boston, MA
- 12th Feb 2018 Social Profiling through Image Understanding - MIT Media Lab - Boston, MA
- 24th Oct 2017 What your Facebook Profile Picture Reveals about your Personality: A Feature-based Approach - ACM MM, Mountain View, CA
- 26th May 2017 Social Profiling through Image Understanding - Association for Psychological Science Convention - Boston, MA
- 5th Dec 2016 Social Profiling through Image Understanding - NIPS, Barcelona, ES
- 25th Feb 2016 Computational Aesthetics for Multimedia, a Social Signal Processing Perspective - CalTech, Pasadena, CA
- 29th Oct 2015 Computational Aesthetics for Multimedia - UNSW School of Psychology, Sydney, AUS
- 27th Oct 2015 Computational Aesthetics for Multimedia - UTS, Sydney, AUS
- 21st Oct 2015 Computational Aesthetics for Multimedia - NICTA, Canberra, AUS
- 17th July 2015 ICVSS oral presentation for best poster presentation award - Sicily, IT
- 4th Nov 2014 Recognizing People by Their Personal Aesthetics: a Statistical Multi-level Approach - ACCV, Singapore, SG
- 30th Oct 2014 Recognizing People by Their Personal Aesthetics: a Statistical Multi-level Approach- ICIP, Paris, FR

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## Publications

- [18] **C. Segalin**, A. Vinciarelli and M. Musolesi. 'The Role of Images as Social Signals: An Analysis of the Influence of Visual, Textual and Social Cues on Information Propagation in Twitter'. In: *Proceedings of the International Conference on Multimedia*. 2018.
- [17] S. Matz, **C. Segalin**, D. Stillwell, S. R. Müller and M. Bos. 'Personality-customized communication: Using computational methods to predict the personal appeal of marketing images'. In: *Journal of Consumer Psychology* (2017).
- [16] **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: *ACM Multimedia* (2017).
- [15] **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).
- [14] **C. Segalin**, D. Cheng and M. Cristani. 'Social Profiling through Image Understanding: Personality Inference using Convolutional Neural Networks'. In: *NIPS WIML Workshop* (2016).
- [13] **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).
- [12] 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.
- [11] **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.
- [10] **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.
- [9] **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.
- [8] 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.

- [7] 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.
- [6] 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.
- [5] 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.
- [4] 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.
- [3] **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.
- [2] M. Cristani, G. Roffo, **C. Segalin**, L. Bazzani, A. Vinciarelli and V. Murino. 'Conversationally-inspired stylometric features for authorship attribution in instant messaging'. In: *Proceedings of the International Conference on Multimedia*. ACM. 2012, pp. 1121–1124.
- [1] 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.

12th June 2018

Cristina Segalin