

Matteo Ruggero Ronchi

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Education

- Sep '13 – Present Ph.D. Student in Computer Science
California Institute of Technology, Pasadena, USA
- Oct '10 – Dec '12 Master of Science in Computer Science Engineering *cum laude*
University of Siena, Siena, Italy
- Sep '07 – Oct '10 Bachelor of Science in Computer Science Engineering *cum laude*
University of Siena, Siena, Italy

Research Experience

- Sep '13 – Present Research Assistant – Computational Vision Lab, Caltech
- Jul '10 – Dec '12 Research Assistant – Artificial Intelligence Research Laboratory, University of Siena

Teaching Experience

- Jul '15 – Sep '15 *Summer Undergraduate Research Fellowship (SURF) Tutor*. Mentor a student through the process of research as a creative intellectual activity. Project Title: "*Learning a Rotation Invariant Low Rank Basis for Pose Estimation*."
- Sep '14 – Dec '14 CS 187: *Neural Computation*, Instructor: *Professor Perona*, Role: *Teaching Assistant*
This course investigates models of neural computation and their neurological substrate. Neurobiology is used as a motivating factor to introduce relevant algorithms, such as neural networks, population coding, spike-based computing, etc.

Publications & Proceedings

- Dec '16 Ronchi, Kim, Yue. "*A Rotation Invariant Latent Factor Model for Movement Discovery from Static Poses*." IEEE International Conference on Data Mining (ICDM 2016).
- Sep '15 Ronchi, Perona. "*Describing Common Human Visual Actions in Images*." Proceedings of the British Machine Vision Conference (BMVC 2015). BMVA Press, 2015. 52.1-52.12
- Sep '14 Burgos-Artizzu, Ronchi, Perona. "*Distance Estimation of an Unknown Person from a Portrait*." Computer Vision–ECCV 2014. Springer International Publishing, 2014. 313-327
- Dec '12 Ronchi, Melacci, Lippi, Maggini, Gori. "*An Information Theoretic Feature Learning Approach to Visual Recognition*." Master Thesis Dissertation, Siena, 2012
- Oct '10 Ronchi, Diligenti. "*Image Steganalysis based on Machine Learning Techniques*." Bachelor Thesis Dissertation, Siena, 2010

Workshops

- Oct '16* Organizer of the MS COCO Object Detection and Segmentation, and Pose Estimation Challenges at the 2016 European Conference on Computer Vision, Amsterdam, Netherlands
- Dec '15* Organizer of the MS COCO Object Detection and Segmentation Challenges at the 2015 International Conference on Computer Vision, Santiago, Chile
- Jun '15* Organizer of the MS COCO Captioning Challenge at the IEEE Conference on Computer Vision and Pattern Recognition, Boston, MA, USA
- Jul '14* Student at the International Computer Vision Summer School, Sicily, Italy
- Sep '12* Ronchi, Scarselli, Bianchini. "A Computer Vision system for the morphological classification of oligodendrocytes in the central nervous system." Poster at the First Conference of the Tuscany Bioinformatics Society, Siena, 2012
- Jul '11* Invited Talk "Mental State Classification based on EMOTIV Epoch Headset." at the University of Trento, Trento, Italy

Honors & Awards

- Mar '15* Qualcomm Innovation Fellowship 2015 Finalist, "Efficient Inference of Agent-Object Interactions from Images", San Diego, CA, USA
- Dec '12* Best Computer Science Graduating Student 2011-12, University of Siena, Siena, Italy

Programming Skills

- Research* Python, Matlab
- Back-end* C, C++, Java
- Front-end* HTML, CSS, JavaScript
- Mobile* Android
- Other* Amazon Mechanical Turk Development, MongoDB

Languages

English and Italian – Mother Tongue Proficiency

Volunteer Experience

Math and Physics Volunteer Teacher, "Amici della Costa D'Avorio" NPO

References

References and code available upon request.