Oriane Siméoni

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🖥 https://osimeoni.github.io

Research interests

Computer vision, image representation, multimodal learning, machine learning.

Education

2016–2020 **PhD researcher**, *Inria / Université de Rennes 1*, Rennes, France.
Supervisors: Dr. Yannis Avrithis and Pr. Guillaume Gravier
Thesis: Robust image representation for classification, retrieval and object discovery
Publications: [1, 2, 3, 4, 5]
Reviewers: Pr. Patrick Pérez and Pr. Josef Sivic
Jury members: Pr. Cordelia Schmid, Dr. Hervé Jégou,
Dr. Diane Larlus and Dr. Elisa Fromont
Dr. Ondřej Chum (invited)
Defense date: 10th of September 2020 (initially 31th of March 2020)

2015–2016 **Master of Statistics and Business Intelligence**, *Paul Sabatier University*, Toulouse, France.

2012–2015 **Engineer diploma in Telecommunications**, *Enseirb-Matmeca*, Bordeaux, France.

Research positions

March 2020–Aug. 2020 **Research intern**, *Google*, Grenoble, France.
Supervisors: Pr. Cordelia Schmid and Dr. Chen Sun

Nov. 2018–Feb. 2019 **Intern**, *Twitter / Magic Pony*, London, England.
Supervisors: Dr. Wenzhe Shi and Dr. Jose Caballero

April 2018–June 2018 **Visiting Student**, *Center for Machine Perception, CVUT*, Prague, Czech Republic.
Supervisor: Dr. Ondřej Chum
Publication: [3]

Feb. 2016–July 2016 **Research Intern**, *Onera*, Paris, France.
Supervisors: Dr. Stéphane Herbin and Dr. Adrien Chan Hon Tong
Thesis: Scene representation through contextualization of object recognition algorithms in images

June 2014–Sept. 2014 **Research Intern**, *Institute for Advanced Biosciences, Keio University*, Tsuruoka, Japan.
Supervisor: Dr. Kumar Selvarajoo
Thesis: Statistical analysis of genes expression
Publication: [6]

June 2013–July 2013 **Research Intern**, *Humboldt University*, Berlin, Germany.
Supervisor: Pr. Andreas Griewank
Thesis: Development of an algebraic tool for Automatic Differentiation

Research collaborators

Google	Cordelia Schmid, Chen Sun, Arsha Nagrani
Inria	Yannis Avrithis, Guillaume Gravier, Ahmet Iscen, Ronan Sicre
Czech Technical University	Ondřej Chum, Giorgos Tolias
Onera	Stéphane Herbin, Adrien Chan Hon Tong

Teaching experience

2017	**Lectures and practicals, Teaching Assistant**, *INSA Rennes, France.* Algorithms and Programming I
2016–2017	**Lectures and practicals, Teaching Assistant**, *INSA Rennes, France.* Introduction to Database

Working experience

Feb. 2015–Aug. 2015	**Technical Intern**, *Intersec*, Paris, France. Implementation of tools allowing the interoperability between the SNMP protocol and the Intersec Object Packer technology

Awards

2019	ICVSS 2019 Best Presentation Award
2018	Guest invitation Google Computer Vision PhD Summit, Zurich
2017	VS3 Vision and Sports Summer School 2017 Best Poster Award

Summer schools

ICVSS 2019	International Computer Vision Summer School 2019. Sicily, Italy 7-13 July.
VS3 2017	Vision and Sports Summer School 2017. Prague, Czech Republic 21-26 August.
DS3 2017	Data Science Summer School 2017. Paris, France 28 August-1 September.

Languages

English	Fluent	*TOEIC: 965/990 and IELTS: 7.0/9*
Italian	Intermediate	*B1 level*
French	Native	

Computer skills

Programming	Python, Matlab, C++, Java, R, Linux shell
Other	Tensorflow, PyTorch, caffe, MatConvNet, scikit-learn, LaTeX

Full list of publications

[1] O. Siméoni. *Robust image representation for classification, retrieval and object discovery*. PhD thesis, Inria, Université de Rennes 1, 2020.

[2] O. Siméoni, M. Budnik, Y. Avrithis, and G. Gravier. Rethinking deep active learning: Using unlabeled data at model training. In *International Conference on Pattern Recognition (ICPR)*, 2020.

[3] O. Siméoni, Y. Avrithis, and O. Chum. Local features and visual words emerge in activations. In *IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, Long Beach, CA, US, 6 2019.

[4] O. Siméoni, A. Iscen, G. Tolias, Y. Avrithis, and O. Chum. Graph-based particular object discovery. *Machine Vision and Applications (MVA)*, 2019.

[5] O. Siméoni, A. Iscen, G. Tolias, Y. Avrithis, and O. Chum. Unsupervised object discovery for instance recognition. In *IEEE Winter Conference on Applications of Computer Vision (WACV)*, 2018.

[6] O. Siméoni, V. Piras, M. Tomita, and K. Selvarajoo. Tracking global gene expression response in T cell differentiation. *Gene*, 2015.