Marina Paola Gardella Oddone

https://marinagardella.github.io/

Curriculum Vitae

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ABOUT ME

I am a PhD student at Centre Borelli, in École Normale Supérieure Paris-Saclay, under the supervision of Dr. Miguel Colom, Pr. Jean-Michel Morel, and Pr. Pablo Muse. Here, I am part of the Workgroup for Signal and Image Processing. My main focus is on image forgery detection through noise analysis.

EDUCATION

2020 - Present

Ph.D. in Mathematics, Centre Borelli, École normale supérieure Paris-Saclay, Université Paris-Saclay. Supervisors: Miguel Colom, Jean-Michel Morel and Pablo Musé. **Paris Region grant**.

2017 - 2019

Masters in Mathematical Engineering, School of Engineering, Universidad de la República. CAP grant.

2011 - 2017

Bachelor in Mathematics, School of Sciences, Universidad de la República.

2012 - 2016

Bachelor in Economics, School of Economics Sciences and Administration, Universidad de la República.

RESEARCH

International Peer-reviewed Journal Articles A. Nicolaï, Q. Bammey, M. Gardella, T. Nikoukhah, O. Boulant, I. Bargiotas, N. Monzón, C. Truong, B. Kerautret, P. Monasse, M. Colom (2022). The approach to reproducible research of the Image Processing On Line (IPOL) journal. Informatio.

M. Gardella, P. Musé, J.-M Morel, M. Colom (2021). Forgery Detection in Digital Images by Multi-Scale Noise Estimation. Journal of Imaging.

International Peer-reviewed Conferences M. Gardella, T. Nikoukhah, Y. Li, Q. Bammey (2022). The Impact of JPEG Compression on Prior Image Noise. ICASSP 2022-2022 IEEE International Conference on Acoustics, Speech and Signal Processing.

Q. Bammey, T. Nikoukhah, **M. Gardella**, R. Grompone von Gioi, M. Colom, J.-M. Morel (2022). Non-Semantic Evaluation of Image Forensics Tools: Methodology and Database. IEEE/CVF Winter Conference on Applications of Computer Vision.

M. Gardella, P. Musé, J.-M Morel, M. Colom (2021). NoiseSniffer: a Full Automatic Image Forgery Detector Based on Noise Analysis. 9th IEEE International Workshop on Biometrics and Forensics. Best Paper Award.

Book Chapters

Q. Bammey, M. Colom, T. Ehret, **M. Gardella**, Rafael Grompone, J.-M Morel, T. Nikoukhah, D. Perraud, "Authentification et insertion de données cachées", chapter in "Sécurité multimédia", ISTE Science, 2021.

Talks and Workshops

Workshop Borelli MLBriefs (2022). Contributed with two ML-Briefs IPOL articles with their corresponding online demos.

M. Gardella (2022). "Procesamiento de imágenes falsas." Women in Data Science (WIDS) Montevideo 2022. April, 2022.

M. Gardella, T. Nikoukhah, Q. Bammey (2021). Détection automatique de la falsification d'images. Congrès des Jeunes Chercheuses et Chercheurs en Mathématiques Appliquées 2021. October 27-29, 2021, École polytechnique, Palaiseau, France.

M. Gardella (2021). Enhanced Image Forensic Tools for Fact-Checkers. Conference for Truth and Trust Online (TTO) 2021. October 7 and 8, 2021. Online.

M. Gardella (2017). Estimation of the Inflationary feedback coefficient in Uruguay 1985-2017. IV Conference in applied statistics. October 2017. La Paloma, Uruguay.

PARTICIPATION IN PROJECTS

2022 - Present

Vera.ai. Project co-funded by the European Commission and the UK and Swiss authorities with the goal of developing and deploying a variety of artificial intelligence solutions against disinformation.

2021

Envisu4. Project awarded with a grant by the International Fact-Checking Network. During 6 month, we developed together with the AFP Medialab and the CERTH Institute an enhanced and improved version of the InVid verification plug-in which has been already released.

2017 - 2021

Challenge DEFALS. Image forgery detection challenge organised by the French National Research Agency (ANR) and the General Directorate for Armament (DGA).

2015

MOEBIUS. Project carried out by University professors together with high school teachers with the purpose of developing students' capabilities to face different problems.

TEACHING

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Préparation au concours de l'agrégation externe de sciences économiques et sociales, ENS Paris-Saclay, Université Paris-Saclay.

2020 - 2021

Teaching Assistant, Institut Universitaire de Technologie de Sceaux, Université Paris-Saclay.

2014 - 2019

Teaching Assistant, Department of Mathematics, School of Engineering, University of the Republic.

2015 - 2016

Teaching Assistant, Department of quantitative Methods, School of Economics Sciences and Administration, University of the Republic.

2013

Teaching Assistant, Department of Mathematics, School of Sciences, University of the Republic