

Personal Information

- **Birth date:** September 18th, 1978 **Citizenship:** Italian
Email: gabriele.facciolo@ens-paris-saclay.fr
Address: Centre Borelli, ENS Paris-Saclay, 4 avenue des Sciences 91190 Gif-sur-Yvette, FRANCE
- **Professor of Mathematics at Centre Borelli, ENS Paris-Saclay (ENSPS)**
 Mathematics applied to image processing and computer vision.
- **Doctor from Universitat Pompeu Fabra, Barcelona (2011)** **Advisor:** Vicent Caselles
- **Habilitation à diriger des recherches (HDR) from ENS Paris-Saclay (2016)**
- **Experience:** 1996-2001 Degree in Computer Engineering Universidad de la Republica-Uruguay (Ude-laR); 2001-2005 Worked as a full-time engineer at ANTEL (Telecommunications company); 2004-2005 MsC candidate at Universidad de la República-Uruguay; 2005-2011 PhD candidate & TA at Universitat Pompeu Fabra (Barcelona); 2011-2014 Postdoc & Lecturer at CMLA ENS-Cachan; 2014-2016 Postdoc & Lecturer at IMAGINE ENPC, 2016-2018 Research Director at DxO; 2018-present Professor at ENS Paris-Saclay.
- **Research interests:** Remote sensing and 3D geometric modeling from satellite imagery. Computer vision. Image and video processing and restoration. Variational methods and deep learning.

Scientific production

- **Publications.** 45 in international journals ; 99 in peer reviewed conferences ; 14 patents;
 Google scholar profile: <https://scholar.google.fr/citations?user=gAGVgXsAAAAJ&hl=en>
- **Recent Projects.** Partner PI ANR-DFG w/LSCE and TUM. *BOFOR* (2025-2026); Partner PI DGA RAPID w/Kayros. *DETEVENT* (2025-2027); PI ANR ASTRID Maturation w/LERITY. *SURECAVI* (2022-2023); Co-PI research contract w/Thales: “Real time video restoration” (2022-2023); PI research contract w/Kayros. “Economic indices from remote sensing data” (2017-present).
- **Distinctions and Awards.**
 - Senior member *Institut Universitaire de France (IUF)*, Innovation Chair 2025-2030
 - European Laboratory for Learning and Intelligent Systems (**ELLIS**) Society member (since 2024)
 - Beneficiary of PEDR (2020-2024) and RIPEC (2025-2027) **scientific excellence grants**
 - **Best Student Paper Award** *EarthVision Workshop CVPR* in 2021 and 2023
 - Winner of the **IARPA** Multi-View Stereo 3D Mapping Challenge. Washington DC, Nov 30, 2016
- **5 key publications (in the last 4 years)**
 - [1] L. Savant Aira, GF, T. Ehret. EOGS: Gaussian Splatting for Earth Observation. *CVPR*, 2025.
 - [2] E. Ouerghi, T. Ehret, GF, E. Meinhardt-Llopis, R. Marion, J.-M. Morel. Tightening-up methane plume source rate estimation in EnMAP and PRISMA images. Preprint *AMT*, 2025.
 - [3] X. Bou, GF, R. Grompone, J.-M. Morel, T. Ehret. Exploring Robust Features for Few-Shot Object Detection in Satellite Imagery. *CVPR Earth Vision Workshop*, 2024.
 - [4] T. Ehret, R. Marí, D. Darksen, N. Gasnier, GF. Radar Fields: An Extension of Radiance Fields to SAR. *CVPR Earth Vision Workshop*, 2024.
 - [5] N. L. Nguyen, J. Anger, A. Davy, P. Arias, GF. Self-Supervised Super-Resolution for Multi-Exposure Push-Frame Satellites. *CVPR*, 2022.

Other activities

- **Direction or codirection** of 12 finished PhD theses, and 9 ongoing. Mentoring of 5 postdocs. Direction of 11 master M2 internships. Mentoring of License internships.
- Associate Editor of Springer Journal of Mathematical Imaging and Vision (2023-present); Editor in chief of the IPOL journal (2023-present); Reviewer for CVPR, ICCV, ECCV, ICIP, BMVC.
- External evaluator for “Proyectos de I+D UTE-UdelaR 2017” CSIC Uruguay 2017; External evaluator for the AAPG 2021 ANR - CE23; External ERC expert for the evaluation of the program ERC-2024-ADG – Stage 2 - Remote Referee 2024.
- Member of the educational board of the [master MVA](#), ENSPS (2020-present); Member of the laboratory council of the Centre Borelli, ENSPS (2020-present); Deputy director for international affairs of the Department of Mathematics, ENSPS (2019-present).