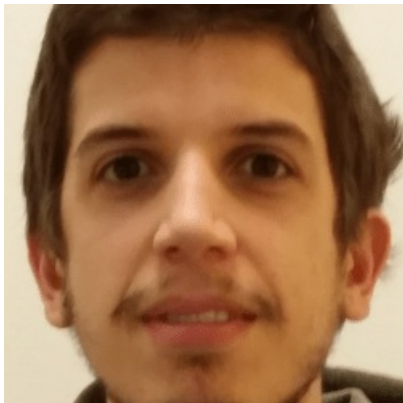




📍 CentraleSupélec - Bâtiment Eiffel -
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EQUIPE OMEIR, CENTRE DE SIMULATION

Filippo GATTI

MAÎTRE DE CONFÉRENCES

RESPONSABLE DE L'OPÉRATION DE RECHERCHE OR3 JUMEAUX HYBRIDES : SIMULATION, APPRENTISSAGE

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🌐 Site internet (<https://scholar.google.com/citations?user=E0mgtfwAAAAJ&%3Bamp%3Bamp%3Bamp%3B=>)

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in LinkedIn (<https://www.linkedin.com/in/filippo-gatti-b4742866/>)

📄 Voir son CV (<https://nextcloud.centralesupelec.fr/s/tzJ7xFmSGiDFLW5>)

Research interests

- › Computational Earthquake Engineering
- › Applied AI to wave propagation

Teaching

Slideshow "Jumeaux Numériques et Smart Constructions"

(<https://nextcloud.centralesupelec.fr/s/bxaXH9pKDd7zzcN>) Mastère Spécialisé® Aménager et Construire pour la Transition Écologique.

Publications

2024

Journal articles

[3D elastic wave propagation with a Factorized Fourier Neural Operator \(F-FNO\)](#)

Fanny Lehmann, Filippo Gatti, Michaël Bertin, Didier Clouteau

Computer Methods in Applied Mechanics and Engineering, 2024, 420, pp.116718. ([10.1016/j.cma.2023.116718](https://doi.org/10.1016/j.cma.2023.116718))



[ACCURACY OF MAGNETIC RESONANCE IMAGING IN CLINICAL ENDODONTIC APPLICATIONS: A SYSTEMATIC REVIEW](#)

Amanda Pelegrin Candemil, Guilherme Alves dos Santos, Matheus Oliveira, Filippo Gatti, Yara T.C. Silva-Sousa, Alice Silva-Sousa, Jardel Francisco Mazzi-Chaves, Manoel Damião Sousa-Neto

Journal of Endodontics, 2024, ([10.1016/j.joen.2024.01.014](https://doi.org/10.1016/j.joen.2024.01.014))



Conference papers

[Deep-learning-based surrogate model of laser-induced elastic wave propagation in metallic microstructures with elongated grains](#)

Frédéric Allaire, Filippo Gatti, Roberto Miorrelli, Vincent Dorval, Jérôme Laurent

6th International Workshop on Laser-Ultrasound for Metals, SWERIM, May 2024, Kista, Sweden



[Génération conditionnelle et inconditionnelle de signaux sismiques à l'aide de modèles de diffusion.](#)

Hugo Gabrielidis, Filippo Gatti, Stéphane Vialle

CSMA 2024 16ème Colloque National en Calcul des Structures, Association Calcul des Structures et Modélisation (CSMA), May 2024,