

Jean-Lynce GNANAGO

Personal data

Name **Dr Jean-Lynce GNANAGO**
Date of birth **November 10th 1993**
Place of birth **Paris 15e arrondissement, France**
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Education

2019–2023 **PhD, Electrical Engineering, UCBL, Lyon**
Instrumentation, sensors, multiphysics modeling, bench characterizations
2018–2019 **MSc, Biomedical Imaging, UPSud, Orsay**
MRI, Elastography, Ultrasound, CT imaging, PET imaging, Quantitative imaging
2014–2018 **BSc and MSc - Fundamental Physics, ENS Paris Saclay (ex Cachan), Cachan, Grande école**
Quantum mechanics, Electromagnetism, Quantum Statistical Physics, Solid State Physics, Optics Chemistry

Relevant Experience

Jan 2024 – **Post-Doc Researcher, MED UNI WIEN Wien, Osterreich**
Now Working under the supervision of Dr. Roberta Frass-Kriegl.
○ RF Engineering
○ MRI coils
○ MRI phantoms
Apr–Dec **R & D Specialist, BRIGHTMIND.AI Wien, Osterreich**
2023 Multiphysics simulations and characterizations of Transcranial Magnetic Stimulation coils
Oct **Electromagnetics engineer, SIEMENS GAMESA (EX-SIEMENS WIND POWER) Brande, Dan-**
2016–Sept **mark, Generator Research and Development Team**
2017 Electromagnetic simulations for wind turbines generators, long-term durability tests of magnets

Research interest

Dr Jean-Lynce GNANAGO research interest lie between MRI hardware, RF engineering and multiphysics simulations for preclinical applications. So far, Dr's Gnanago most relevant contributions have been in the field of MR characterization of tissue engineered constructs:

- Design of a novel bioreactor for high-field MR characterization of tissue engineered construct.
- Multiphysics simulations and MR characterization of perfusion conditions inside an MR compatible bioreactor.
- Design and mechanical characterization of a conformable piezo actuator.

Teaching experience

2019-2022 **Teaching Assistant, UCBL and INSA Lyon, Villeurbanne**
Teaching in practical classes and lab classes for undergraduate students in engineering curriculum
2017-2018 **Oral examiner in preparatory classes, Lycée Passy-Buzenval, Rueil-Malmaison**
Overseeing weekly oral examination in Physics for undergraduate students from Classes préparatoires.
2015-2016 **Teaching Assistant, École Centrale d'Électronique, Paris**
Overseeing of weekly written examination in Physics.

Publications

Peer-reviewed articles

Gnanago J-L, Capsal J-F, Gerges T, Lombard P, Semet V, Cottinet P-J, Cabrera M, Lambert SA. Actuators for MRE: New Perspectives With Flexible Electroactive Materials. *Front Phys* (2021) 9:633848. doi:10.3389/fphy.2021.633848

International conferences

- **Gnanago J-L**, Gerges T, Chastagnier L, Petiot E, Semet V, Lombard P, Marquette C, Cabrera M, Lambert SA. Compact MRI bioreactor for real-time monitoring 3D printed tissue-engineered constructs. Proceedings of the ISMRM 2021, Vancouver.
- **Gnanago J-L**, Gerges T, Chastagnier L, Petiot E, Semet V, Lombard P, Marquette C, Cabrera M, Lambert SA. 3D MRI characterization of 3D printed tumor tissue models using a plastronic MR-Bioreactor: Preliminary results. Proceedings of the ISMRM 2022, London.
- **Gnanago J-L**, Calvet S, Gerges T, Gilmus V, Pereira Sousa C, Cabrera M, Falk J, Lambert SA. The MR-Bioreactor : Micro-MRI of thick living tissues to characterize 4-days old ex-ovo chick embryo morphology. Proceedings of the ISMRM 2023, Toronto.
- Sousa, C. P., **Gnanago J-L**, L., Gilmus, V., Gerges, T., Lombard, P., Cabrera, M., Lambert, S. A. Combination of screen printed process with electrodeposition steps to drastically improve flexible MRI coils sensitivity. Proceedings of the ISMRM 2022. London.
- Sousa, C. P., Gerges T., Dimeglio F., **Gnanago J-L**, Gilmus V. M., Lombard P., Dorez H., Cabrera M., Lambert S. A., A screen-printed and electroplated 4-channel receiver array coil for veterinary imaging. Proceedings of the ISMRM 2023, Toronto.

Awards

ISMRM 2022 **MR Cancer Best Abstract Award**, *2nd place*

Study group award at the Joint Annual Meeting ISMRM-ESMRMB and ISMRMT 31st Annual Meeting 07-12 May 2022 London, England, UK.

Patent

Lambert S.A, Cabrera M, Lombard P, Semet V., Gerges T., **Gnanago J-L**. Patent in MR coil decoupling. French patent office Patent number 2113415.