

Curriculum Vitae

Anais Artiges

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Education

Year	Degree	Field	Institution
2023	Ph.D.	MRI Physics	Paris-Saclay University, France
2018	M.Eng.	Electronics	ENSEA, France
2018	M.Sc.	Computer science	Cergy-Pontoise University, France
2018	M.Eng.	Information Science	Osaka Prefecture University, Japan

Postdoctoral Training

Year	Specialty	Director	Place of Training
2023 -	MRI Physics	Prof. Riccardo Lattanzi & Assoc. Prof. Kai Tobias Block	New York University, USA.

Major Committee Assignments and Administrative Responsibilities

2015 - 2017	Elected student representative	ENSEA, France
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Awards and Honors

Year	Name of Award
2025	ISMRM Magna Cum Laude
2025	AJNR Distinguished Reviewer
2025	ISMRM Educational Stipend
2025	MRI Together Best Abstract award
2024	ISMRM Educational Stipend
2023	SFRMBM Best Poster Award
2023	ISMRM Educational Stipend
2022	ISMRM Educational Stipend

Memberships in Professional Societies

Year	Society
2021 -	International Society for Magnetic Resonance in Medicine (ISMRM)
2021 - 2024	Organization For Human Brain Mapping (OHBM)
2021 -	Societe Francaise de Resonance Magnetique en Biologie et Medecine (SFRMBM)

Teaching Experience

2021-2022 Teaching practical courses C++/Java (bachelor level) at IUT d'Orsay, France

2024- Lecturer in NYU's Center for Biomedical Imaging internal course "Hands-on Training Course on pulse sequence programming on Siemens IDEA" (four two-hour lectures from September to October 2024).

Reviewing Experience

2023 - Code reviewer for Magnetic Resonance in Medicine
2023 - Peer reviewer for the American Journal of Neuroradiology
2023 - Abstract reviewer for the International Society for Magnetic Resonance Imaging in Medicine (ISMRM) annual conference
2024 - Peer reviewer for the Journal of Magnetic Resonance Imaging

Mentoring of Graduate Students, Residents, Post-Doctoral Fellows

Name	Time Period	Type of Position	Present Position
Elea Granier	2022 - 2023	M.Eng. Student	Ph.D. student, Paris-Sacay University, France

Research Interests

- MRI pulse sequence development
- New methods for MRI data acquisition and reconstruction
- Open-source software for research and open-science
- Brain imaging
- Diffusion-weighted MRI
- Rapid MRI acquisition methods
- Low-field MRI

Key Scientific Achievements

- Development of the open-source GinkgoSequence framework for modular MRI pulse sequence development in the Siemens environment
<https://framagit.org/coupon/gkg/-/tree/master/pulse-sequence>
- Active software development and testing in the MTRK project under the direction of Riccardo Lattanzi and Kai Tobias Block.
- Participation in the MRI4ALL hackathon at New York University (October 2023) as a member of the software development team.

Scientific Publications

- K. Grm, V. Struc, A. Artiges, M. Caron and H. Ekenel, "Strengths and Weaknesses of Deep Learning Models for Face Recognition Against Image Degradations", *IET Biometrics*, vol. 7, no. 1, pp.81-89, Jan. 2018 (awarded in

2019).

- *Artiges A, Singh Saimbhi A, Castillo-Passi C, Lattanzi R, and Block KT, "mtrk - A flexible environment for developing open-source MRI pulse sequences", submitted to Magnetic Resonance in Medicine in March 2025.*

Scientific Presentations

Invited Seminars and Lectures

- 2025 Presenter in the Educational Session "Surfing School: Hands-On Open-Source MR: From Pulse Sequence Programming to Reconstruction & Analysis", on the topic "k-space readout strategies", 30 min talk, ISMRM 2025, Honolulu, Hawaii, USA
- 2024 Teacher in the internal *"Hands-on Training Course on pulse sequence programming on Siemens IDEA"*, 3 two-hour lectures, September-October 2024, NYU Radiology, Center for Biomedical Imaging, New York, USA
- 2024 Panelist for the *"MRI Skills Development Ensuring a Coding Framework for Success: MRM Code Review Initiative"* secret session, annual meeting of the ISMRM 2024, 05/09/24, Singapore
- 2024 Assistant presenter for the MRI4ALL hackathon booth during the Innovation Station at the 12th Biomedical Engineering and Imaging Institute (BMEII) Symposium, 03/20/2024
- 2022 *GinkgoSequence: an Open-Source and modular MRI pulse sequence programming toolbox for Siemens systems*
NYU Radiology Physics Seminar, 11/18/22, New York, USA
- 2022 *GinkgoSequence: an Open-Source and modular MRI pulse sequence programming toolbox for Siemens systems*
University of Michigan Seminar, 07/07/22, virtual meeting
- 2022 Getting the beat of MRI pulse sequences
Neurobreakfast, NeuroSpin, France, 03/23/22

Conference Contributions

- *Artiges A., Mauconduit F., Uszynski I., Mulot B., Chailloux E., Ciuciu P., and Poupon C., Ginkgo: a novel modular and Open Source MRI pulse sequence development framework dedicated to MRI systems.* Abstract 2778. International Society for Magnetic Resonance in Medicine (2022) - Poster presentation.
- *Artiges A., Mauconduit F., Uszynski I., Mulot B., Chailloux E., Ciuciu P., and Poupon C., Ginkgo: a novel modular and Open Source MRI pulse sequence development framework.* Abstract 1264. Organization for Human Brain Mapping (2022) - Oral and poster presentations.
- *Artiges A., Granier E., Uszynski I., Mauconduit F., Ciuciu P., and Poupon C., GinkgoSequence: un environnement open-source pour le développement de séquences IRM de diffusion.* Abstract 20. Société Française de Résonance Magnétique en Biologie et Médecine (2023) - Oral and poster presentations

(best poster award).

- *Artiges A., Granier E., Uszynski I., Mauconduit F., Ciuciu P., and Poupon C., A diffusion-weighted MRI pulse sequence development toolbox in the open source GinkgoSequence framework.* Abstract 3486. International Society for Magnetic Resonance in Medicine (2023) - Poster presentation.
- *Artiges A., Granier E., Uszynski I., Mauconduit F., Ciuciu P., and Poupon C., A toolbox for opensource development of diffusion-weighted MRI pulse sequences using GinkgoSequence.* Abstract 1160. Organization for Human Brain Mapping (2023) - Poster presentation.
- *Artiges A., Singh Saimbhi A., Wiggins R., Lattanzi R., and Block KT., mtrk – A flexible open-source framework for developing MRI pulse sequences based on common web standards.* International Society for Magnetic Resonance in Medicine (ISMRM, 2024) - Poster presentation.
- *Artiges A., Block KT., Chen L., Cravern-Brightman L., Martin J., Negnevitsky V., Singh Saimbhi A., Stockmann J., Sun H., Wiggins R., Zi R., and Geethanath S., Adjustment and Basic Imaging Sequences for the Open-Source MRI4ALL Console Using the PyPulseq and MaRCoS Libraries.* International Society for Magnetic Resonance in Medicine (ISMRM, 2024) - Poster presentation.
- *Abitha Sriniva S., ..., Artiges A., et al., MRI4All: A Week-Long Hackathon for the Development of an Open-Source Ultra-Low-Field MRI System.* International Society for Magnetic Resonance in Medicine (ISMRM, 2024) - Oral presentation.
- *Artiges A, Singh Saimbhi A, Wiggins R, Lattanzi R, and Block KT, mtrk – An intuitive and open-source designer for MRI pulse sequences.* CBI Science Day, New York University, 2024 - Poster presentation.
- *Artiges A, Singh Saimbhi A, Wiggins R, Castillo-Passi C, Montin E, Giannakopoulos I, Lattanzi R, and Block KT, mtrk – An intuitive and open-source development kit for MRI pulse sequences.* MRI Together workshop 2025 - Oral presentation.
- *Artiges A, Singh Saimbhi A, Wiggins R, Castillo-Passi C, Montin E, Giannakopoulos I, Lattanzi R, and Block KT, mtrk - Un environnement intuitif pour le développement de séquences IRM libres de droits.* Bi-annual meeting of the SFRMBM (France) 2025 - Poster presentation.
- *Artiges A, Singh Saimbhi A, Castillo-Passi C, Montin E, Giannakopoulos I, Lattanzi R, and Block KT, Comparison of mtrk, Pulseq, and vendor sequences using simulated, phantom, and in-vivo acquisitions.* International Society for Magnetic Resonance in Medicine (ISMRM, 2025) - Oral presentation - Magna Cum Laude award.