

LILA CUNGE

☎ 310 208 9631

✉ lila.cunge@gmail.com

🌐 www.linkedin.com/in/lila-cunge-800504198

✓ J-2 Visa and EAD

Medical Imaging Engineer with experience in AI and MRI image processing, including a research engineer role, I am passionate about medical innovation and eager to develop new skills. I thrive on challenges and look forward to contributing to cutting-edge projects in Los Angeles.

PROFESSIONAL EXPERIENCE

● Research Engineer in MRI Reconstruction

NOVEMBER 2024 -

📍 Grenoble Institute of Neurosciences

Develop an innovative deep learning-based method for ultra-fast MR fingerprint reconstruction. Design and implement neural network architectures using TensorFlow and PyTorch, combining with MR physics priors to optimize image reconstruction.

● Research internship in medical signal processing

FEBRUARY 2024 - AUGUST 2024

📍 ICONEUS, Paris

Process functional ultrasound image and signal with Python. Denoise signal using different methods. Compare groups of subjects to establish differences in brain functional connectivity.

- Machine learning algorithm (ICA) / Deep learning (CNN)
- Statistics for data analysis (e.g. : TFCE, permutation test...)
- Data pre-processing and registration

● Research project

SEPTEMBER 2023 - JANUARY 2024

📍 CEA, Grenoble

Estimate blood pressure from optical data using machine learning and deep learning models.

- Applied mathematics for signal processing (time series).
- Machine learning and deep learning algorithms.
- Python / Git

● Medical imaging internship

MAY 2022 - JULY 2022

📍 Institute of Biophysics and Biomedical engineering, Lisbon

Research and analysis of new MRI biomarkers to improve diagnosis of pediatric multiple sclerosis.

- Python / Matlab and its extension SPM / FSL
- Data anonymization (DICOM/NIfTI processing)
- Image processing (registration, normalization, correction)
- Lesion segmentation
- Analysis and synthesis of results

SCIENTIFIC CONTRIBUTIONS

Contribution to scientific papers :

Coudert, T., Delphin, A., Marçal, M. S. M., Barrier, A., **Cunge, L.**, Legris, L., Warnking, J. M., Lemasson, B., Barbier, E. L., & Christen, T. (2025). MR-WAVES: MR water-diffusion and vascular effects simulations. Magnetic Resonance in Medicine, [under submission]

Participation in conferences :

Barrier, A., **Cunge, L.**, Coudert, T., Delphin, A., Legris, L., Oudoumanessah, G., Lamalle, L., Forbes, F., Doneva, M., Lemasson, B., Barbier, E. L., & Christen, T. (2025). MARVEL MRF for Contrast-free Blood Volume, Microvascular Properties, and Relaxometry Mapping: Initial Tests in Volunteers and Stroke Patients. ISMRM 2025, Power Pitch Digital Poster.

EDUCATION

- Medical imaging engineering school

SEPTEMBER 2020 - SEPTEMBER 2024

📍 *National Polytechnical Institute of
Grenoble, Phelma*

Equivalent to a Master's degree. Courses in image processing, medical imaging methods, and AI (the full program is detailed [here](#)). International program (courses taught in English). GPA = 4.

- Master of science in management

SEPTEMBER 2022 - SEPTEMBER 2023

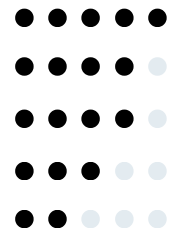
📍 *GEM (Grenoble Ecole de Management),
Grenoble*

Double-diploma (equivalent to a double master's degree) in international management and marketing within the "Grande Ecole" program. Courses in management, marketing and start-up strategy. GPA = 3.8. Final internship at Becton Dickinson as a product owner. Manage product strategy and agile development to align market needs with business objectives.

SKILLS

TECHNICAL SKILLS

- MS office suite
- **Python** : OpenCV, scikit-learn, Pandas, TensorFlow, Pytorch
- Matlab
- C language
- SQL



Coursera certification: [Convolutional Neural Network](#) of DeepLearning.AI
[Introduction to AWS Cloud](#) of AWS
[AWS Cloud Technical Essentials](#) of AWS

SOFT SKILLS

Adaptability & Quick Learning: Successfully adapted to new working environments through my double degree program, which involved adjusting to different academic cultures and workflows.

Team collaboration: I have learned to communicate and work effectively with various teams to achieve common goals during my studies.

Problem solving: My various research experiences have enabled me to develop approaches for solving complex problems in a structured way.

LANGUAGES

French : Native

English : Level C1. **TOEIC** (Test of English for International Communication) : **920**

Spanish : Level B1

ASSOCIATION

2021 - 2022: Led a team responsible for managing communications with university students across multiple channels. Ensured effective and consistent messaging.