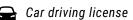# Jules Gomel

ENGINEERING STUDENT

✉ julesgomel.pro@gmail.com
in/julesgomel/
🚗 Car driving license

About me

Highly interested in neuroergonomics, brain-computer interface and neuroengineering after two fulfilling experiences.

Eager to start a PhD linked to these fields in an international context to deepen my knowledge and my skills and be a part of the world of research.

Soft skills

- Discipline and determination
- Passion and empathy
- Conflict management

Languages

- French : mother tongue
- English : C1
- Basics Italian and German

Association experience

- Quality manager of a sports event
- Organized an air meeting
- Photographer for events
- Community manager and article writing

Hobbies

- Reading : fantasy and sci-fi
- Sports : running, tennis, bike
- Private maths lessons to students

References and internship report available on request

Professionnal experience

Research technician
*Drexel University - Philadelphia (USA) | March - August 2023 | Directed by Dr **Hasan AYAZ***

Realized a benchmark of generative models for motion artifacts removal on functional near-infrared data using machine learning and deep learning

Engineer intern in a medical research lab
*Tonic - INSERM Toulouse (FRANCE) | February - July 2022 | Directed by Dr **David GASQ***

Fully developed a computer app powered by MatLab for inertial measurement units data processing to be used by therapists for upper-limb movement tracking

Education

ISAE-Supaero
Toulouse (FRANCE) | September 2020 - 2024

General engineering education : BSc in 2021, MSc Diploma expected in 2024
Two years of science common courses : Computer science, signal processing…
Studied abroad in Politecnico Di Milano for a semester and did a gap year.
Specialization in neuroergonomics, signal processing and imaging.

High School François-René de Chateaubriand
Rennes (FRANCE) | September 2018 - July 2020

Intensive science courses to prepare grandes écoles entrance exam
Specialization in computer science

Skills

Computer science
Computer languages : MatLab, Java, Python, C
Packages in Python : Tensorflow, Pandas, Pytorch, Scikit-Learn
Deep learning : neural network, convolution, generative models (GAN)

Signal processing
Fourier and wavelet transforms, Kalman filter, estimation

Experiments
Experiments conception and realization : protocol and experimental skills