Manon THBAUT

Address

21 rue Maximilien Robespierre

91120, Palaiseau, France

Contact

+33764250604

manonthbaut@gmail.com

Driver's license

Languages

French (mother tongue)

English (B2-C1), TOEIC (2018)

Spanish (B1), Chinese (beginner)

Skills

• Programming basics (Python, Scilab, Mathematica, C++)

• FE simulations basics (Abaqus, Fenics)

Hobbies

drawing, martial arts, 80's hits

Curriculum Vitae

Education

• 2022-...: **PhD** "A variational approach to higher-order homogenization", LMS (Ecole Polytechnique)

• Sept 2021-Feb 2022 : **master Analyse Multichelles pour les Matériaux et les Structures**, Ecole des Ponts/Sorbonne

- main courses: homogenization, fracture/damage, viscoplasticity, multilayer plates, FE methods (fenics),...

• 2020-2023 : **research project** with S. Brisard, *"On the generalized plane strain assumption for pressurized membranes"*

• 2018-2023: **engineering degree, Ecole des Ponts Paristech**, department of **mechanical engineering and materials**

- main courses : structural mechanics, homogenization, plasticity, plates/shells theory, fluid mechanics, dynamics

- research projects: comparative study of the influence of adsorption of particles or bacteria on a drop of water interface (2019), coiling in 3D printed concrete (2019)

• 2016-2018: preparatory classes, two-year undergraduate intensive courses maths/physics at lycée Joffre, Montpellier

• 2016: baccalauréat (major: maths), first class honours

Experience

• Sept 2022 - June 2025: Teaching assistant (X bachelor)

• Mar 2022–Jul 2022: master project at FleXLab (EPFL, Switzerland), *"A systematic study of a pinned-clamped rotating hard-magnetic beam"*

- Mar 2021 –Jul 2021 : R&D internship at Almatech (Switzerland), boat simulations for ZESST project

• Sept 2020-Feb 2021 : research internship at Navier lab (ENPC), higher-order homogenization of a triangular lattice

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Publications

HAL account: http:////cv.hal.science/manon-thbaut