

Efstathia Chroni

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Personal Profile

Doctoral student at the school of Civil Engineering of the National Technical University of Athens. My general research interest lies in the field of Computational Mechanics. Particularly, the area of my research involves a new approach for topology optimization of multi-material structures through X-FEM (Extended Finite Elements Method) named Iso-XFEM.

Education

PhD Candidate (Oct 2021) at the Laboratory of Structural Analysis and Antiseismic Research of **National Technical University of Athens – MGroup**, Greece

- Research field: X-FEM, Topology Optimization

M.Sc. in Computational Mechanics (Oct 2019-Feb 2021), **National Technical University of Athens**, Greece

- GPA: 8.71
- Specialization: Computational Mechanics of Solids
- Master thesis on the subject «Homogenization of composite materials with X-FEM (Extended-Finite Elements Method)».

M.Eng. in Mining and Metallurgical Engineering (Oct 2013-Mar 2019), **National Technical University of Athens**, Greece

- GPA: 8.1
- Specialization: Materials Science and Engineering
- Master thesis on the subject «Comparative study of austenite metastability and consequent mechanical properties of TRIP steel (Transformation-Induced Plasticity) ».
- Honour: 3rd in order on national entrance exams.

Arsakeio School of Psychiko (Sep 2007-Jun 2013)

- GPA: 19.1
- Honour: Graduate of Arsakeio School of Psychiko with a degree 19.1/20 (Excellent, Exemplary Conduct).

Experience

Next Generation Computational Engineering (NComp)

Engineer/Software Developer, Jul 2021

Ionian Kalk, Kavala

Internship, Jul 2017-Aug 2017

- Quality control of the daily production of amorphous calcium carbonate CaCO₃.

Languages & Software Proficiency

- Greek (mother tongue), English (Proficiency of University of Michigan), Spanish (DELE B2)
- Programming Languages: Matlab, C#, Python
- MS Office: Excellent command over Word, Excel, Power Point
- AutoCAD 2d, ANSYS apdl, ABAQUS: Exercised during semester project

Additional Information

- Member of Technical Chamber of Greece
- Holding a driving license
- Interests: listening to music, playing electric guitar, gymnastics and swimming