

Kostis Katrioplas

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Interests

Programming, maths, geometry, algorithms, machine learning, artificial intelligence, web, open source hardware, C++, Python, Go, Rust

Work experience

Software engineer, GeometryFactory.

January 2018 – June 2018. Sophia-Antipolis, France.

Development of algorithms related to triangulations, combinatorics and graph theory.

Mentor: Sébastien Lorient.

Google summer of code student, The CGAL project.

May 2017 – August 2017.

Implementation of optimization algorithms aiming at mesh and shape smoothing.

Mentors: Jane Tournois and Pierre Alliez.

Software engineering intern, Zurich MedTech AG.

March 2015 – September 2015, Zurich, Switzerland.

Implementation of novel algorithms for pre-processing of FEM meshes, development of Python scripts to facilitate complex image data visualization.

Supervisors: Esra Neufeld and Bryn Lloyd.

Education

Master's Degree in Computational Physics, Department of Physics, Aristotle University of Thessaloniki.

October 2013 – February 2015, GPA — 9.56/10

Thesis: *Finite element image reconstruction in microwave ablation treatment* (presented February 2017).

Supervisor: Prof. Theodoros Samaras.

Diploma (Ptychion) in Physics, Department of Physics, Aristotle University of Thessaloniki.

September 2004 – June 2013, GPA — 7.68/10

Thesis: *Numerical calculation of the induced currents during TMS on human head model using the impedance method*.

Supervisor: Prof. Theodoros Samaras.

Published work

Katrioplas K., Samaras T., Monitoring of Microwave Ablation treatment with Electrical Impedance Tomography, in Proceedings of COST EMF-Med 2018, Croatia. To appear in IEEE Xplore.