

GEORGE KRAIT

PhD Candidate, French Institute for Research in Computer Science and Automation

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A mathematician & computer scientist specialized in Computational Geometry & Computer Algebra with additional interests in Machine Learning

EXPERIENCE

Research Engineer

The French Institute for Research in Computer Science and Automation

Feb 2021 – Ongoing France, Nancy

Develop and implement algorithms regarding verification purposes
PhD candidate

The French Institute for Research in Computer Science and Automation

Nov 2017 – Feb 2021 France, Nancy

- Pursuing research in modeling the projections of 3D curves.
- Using efficient symbolic and certified numerical tools for visualization & robotics purposes.
- Designing & implementing related algorithms.

Tutor

University of Lorraine

Sep 2019 Nancy, France

- Python for software engineering students
- Database for mechanical engineering students

Volunteer teacher for University and high school students

Refugee Support Center

May 2016 – August 2017 Kaiserslautern, Germany

German and Mathematics teacher for university & high school students

Computer science courses coordinator

Redda Institute

Dec 2010– Jan 2014 Damascus, Syria

Volunteer teacher for University and high school students

Greek Catholic Church center

Sep 2009 – August 2014 Damascus, Syria

voluntary Mathematics teacher for university & high school students

STRENGTHS

Technical Skills:

Python including Numpy, Matplotlib, Sympy ... Maple Matlab
GNU Octave Objective oriented programming
Singular (Computer Algebra software) Pandas

EDUCATION

PhD in Informatics

University of Lorraine

Nov 2017 – Feb 2021 Nancy, France

Master in Geometry, Algebra and Computer Algebra (Symbolic computing)

Technical University of Kaiserslautern

Apr 2014 – Oct 2017 Kaiserslautern, Germany

Bachelor of Science in Mathematics

Damascus University

Sep 2009 – Aug 2014 Damascus, Syria


FURTHER EDUCATION


Online course in Machine Learning (56 hours)


Stanford University

Jan 18 Coursera

AWARDS & MOST PROUD OF

 KAAD Scholarship for pursuing master degree at TU Kaiserslautern, Germany

 Selected for the Syrian team in the International Mathematical Olympiads for University students (2013)

 Top ten ranking in Syrian National Olympiads of Mathematics for University Students.

LIFE PHILOSOPHY

"Extraordinary dreams require extraordinary effort."

Theoretical and Algorithmic Skills:

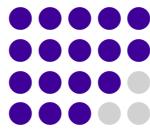
Symbolic Computing

Computational Geometry

Interval Arithmetic

LANGUAGES

Arabic
English
German
French



PUBLICATION AND PREPRINTS

- [1] George Krait, Sylvain Lazard, Guillaume Moroz, Marc Pouget. Certified numerical algorithm for isolating the singularities of the plane projection of generic smooth space curves. Journal of Computational and Applied Mathematics, Elsevier, In press. Science Direct [link](#)
- [2] George Krait, Sylvain Lazard, Guillaume Moroz, Marc Pouget. Numerical Algorithm for the Topology of Singular Plane Curves. EuroCG 2019 - 35th European Workshop on Computational Geometry, Mar 2019, Utrecht, Netherlands. HAL