

GUEUNET CHARLES

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I am a 27 years old R&D engineer working in the Scientific Visualization team at Kitware.
I defended my Ph.D on High Performance Topological Data Analysis in 2019, since then I work on maintaining VTK, ParaView and TTK.

POSITION

POSITION	R&D Engineer , at Kitware	Ferbruary 2019 — Present
LANGUAGES	C++, CMake, VTK, Paraview, TTK, OpenMP, Python	
GAINS	Improve code review & writing skills, quickly apprehend a large code base	

PUBLICATIONS

MAIN-AUTHOR	Thesis: High Performance Level-set Based Topological Data Analysis Eurovis 2019: Task-based Augmented Reeb Graphs with Dynamic ST-Trees TPDS 2018: Task-based Augmented Contour Trees with Fibonacci Heaps LDAV 2017: Task-based Augmented Merge Trees with Fibonacci Heaps LDAV 2016: Contour Forests: Fast Multi-threaded Augmented Contour Trees IEEE Vis 2018: Topological Data Analysis Made Easy with the Topology Toolkit Conference on Physical Modeling for Virtual Manufacturing Systems and Processes 2017: Viscous fingering: A topological visual analytic approach IEEE Vis 2017: The Topology Toolkit [Best Paper Honorable Mention Award] IEEE Vis 2016: Visualizing ensemble of Viscous Fingers [Honorable Mention Award]	
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EDUCATION

PERIOD	2016 — 2019	
DEGREE	Ph.D	
PLACE	Sorbonne University (LIP6) and Kitware	Paris, France
SUBJECT	High Performance Level-set based Topological Data Analysis	
GAINS	HPC, TDA, Article redaction and review process	

PERIOD	2010 — 2015	
DEGREE	Engineering Diploma in Computer Science (Master degree, 5yrs)	
PLACE	EISTI	Pau, France
	International School of the Sciences of Data Processing, formation in Cloud Computing, Software development, Algorithmic And management	

SKILLS

Code: C, C++, VTK, TTK, OpenMP, MPI, CMake, Python
Tools: GNU/Linux, Git, Paraview, Vim, \LaTeX
Languages: French (native), English (865 at TOEIC)

INTERESTS

IT: Open-source, Videos games
Music: Piano (12years)
Hobbies: Board and Video games