Gueunet Charles

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I am a 26 years old Ph.D student working in Scientific Visualization and High Performance Data Analysis. Currently at Kitware Lyon, this thesis takes place in Sorbonne Université.

Objective

My goal in short term is to move from discovery to innovation.

Work Experience

Position	**Ph.D Student**, at **LIP6** and **Kitware**	Ferburary 2016 — Present
Languages	**C++, OpenMP, CMake, VTK, TTK, Paraview**	
Supervisors	**Julien Tierny** (julien.tierny@lip6.fr), **Julien Jomier** (julien.jomier@kitware.com) and **Pierre Fortin** (pierre.fortin@lip6.fr)	
Subject	High Performance Level-set based Topological Data Analysis	
Gains	High Performance Data Analysis Algorithms, Article Redaction	

Position	**Trainee researcher**, at **LIP6**	May 2015 — February 2016
Languages	**C++, OpenMP, VTK, CMake**	
Supervisors	**Julien Tierny** (julien.tierny@lip6.fr) and **Pierre Fortin** (pierre.fortin@lip6.fr)	
Subject	Research in **scientific visualisation**, knowledge about contour tree algorithms.	
Gains	Basis of Topological Data Analysis.	

Publications

Main-Author	**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].

Education

Period	**2010 — 2015**	
Degree	**Engineering diploma in Computer Science (Master degree, 5yrs)**	
School	**EISTI**	Pau, France
	International School of the Sciences of Data Processing, formation in Cloud computing, Software development, Algorithmic and Management.	

Skills

Computer Languages	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)