

Marc Hartley

📞 06.28.36.15.05 — ✉ marc.hartley@hotmail.com — 🔗 linkedin.com/in/hartleymarc — 🐙 github.com/marchartley

Summary — Currently finishing my PhD studies in Procedural terrain generation.

Skills

Research interests Procedural generation, 3D modeling, Geometry processing, Physics simulation
Programming Languages C/C++, Python, Julia, R, VBA, Java, C#, AutoIt
Web Development PHP, SQL, HTML5, CSS3, jQuery, AJAX, AngularJS, ASP.NET
Database Management Oracle, Postgres, MySQL, Google Datastore, Firebase, MongoDB, InfluxDB
Program Architecture UML, MERISE
Languages French (Native), English (Fluent), Spanish (Intermediate), German (Intermediate)

Education

PhD student: "Procedural generation of underwater environments"	2021 – Present
<i>University of Montpellier, France</i>	<i>Director: FIORIO Christophe, Supervisors: FARAJ Noura & GODARY-DEJEAN Karen</i>
Master's in Visual Computing	2019 – 2021
<i>University of Nantes, France</i>	<i>Valedictorian</i>
Bachelor's in IT Systems Management	2018 – 2019
<i>Hitema, Paris, France</i>	
DUT in Computer Science	2016 – 2018
<i>IUT of Annecy, France</i>	

Experience

Mission complémentaire d'enseignement	2021 – 2024
<i>University of Montpellier, Montpellier, France</i>	
<ul style="list-style-type: none">– L1: Computational complexity– L3: Image processing and 3D programming. TER: Procedural terrain generation– M1: OpenGL programming, mesh processing. TER: Procedural vegetation generation	
Master 2 Research Internship	Feb 2020 – Aug 2020
<i>LISTIC, University Savoie Mont-Blanc, Annecy, France</i>	
<ul style="list-style-type: none">– Researching a low cost ML process for gait measurement with the use of PIR sensors trained through RGBD camera.– Implementation of pose estimation, computation of gait measures, training of NN from the depth camera to PIR sensors.– Best paper award at XXIII IMEKO World Congress 2021.	
Master 1 Research Internship	Apr 2019 – Jul 2019
<i>LS2N, University of Nantes, France</i>	
<ul style="list-style-type: none">– Implementation and analysis of a methodology for compression of temporal 3D point-cloud sequences with the use of TSPLVQ (Tree-Structured Point-Lattice Vector Quantization).	
Bachelor Apprenticeship	Sep 2018 – Aug 2019
<i>Domomat, Annecy, France</i>	
<ul style="list-style-type: none">– Developed and optimized an e-commerce website and an intranet application for employees.	
VBA Developer Internship	Apr 2018 – Jun 2018
<i>Marti Construction SA, Geneva, Switzerland</i>	
<ul style="list-style-type: none">– Developed a dynamic shared knowledge portal and a stock management tool.	

Publications

Abdel Khalek, F. and Hartley, M. and Benoit, E. and Perrin, S. and Marechal, L. and Barthod, C. A low-cost machine learning process for gait measurement using biomechanical sensors
XXIII IMEKO World Congress 2021

- Best paper award

Hartley, Marc and Mellado, Nicolas and Fiorio, Christophe and Faraj, Noura. Flexible terrain erosion
The Visual Computer, 2024

- Best student paper award at CGI2024