

Giacomo Nazzaro

EXPERIENCE

Ph.D. student

Sapienza, University of Rome 10/'18 – now

Research in computer graphics, under the supervision of Prof. Fabio Pellacini.

Graduate researcher

Sapienza, University of Rome 10/'17 – 10/'18

Development of a physically based volumetric path tracer inside yocto-gl, a public C++ library for computer graphics research.

EDUCATION

2018 – NOW **Ph.D. in Computer Science**
Sapienza, University of Rome

2016 – 2018 **MSc in Computer Science**
110/110 WITH HONORS
Sapienza, University of Rome

2013 – 2016 **BS in Applied Mathematics**
110/110 WITH HONORS
Tor Vergata, Roma

PUBLICATIONS

2019 **Surface patterns without textures**
In this work, we propose a new approach to perform surface editing while avoiding the problems of parametrization and texture mapping. In our developed workflow, the user can achieve the desired visual results by designing scalar fields that are defined directly on the mesh.

PROJECTS

2019 **Sky rendering system**
System for real-time rendering of clouds and sky developed for the videogame company Milestone Srl. Development in C++, as a plugin for Unreal Engine 4. The system features volumetric rendering of clouds, wind simulation, control via texture design and graphical user interface.

2018 **CSP solver**
A simple constraint satisfaction problem solver in C++. [GitHub link].

2018 **Serializer**
Small library for binary serialization of data structures and fast loading and writing of the state of a program. [GitHub link]

SKILLS

DEVELOPMENT

C++, Python, GPU programming, OpenGL

Confidence with high performance code, data-oriented design and object-oriented programming.

COMPUTER GRAPHICS

Rendering, Geometry processing

Experience with light transport algorithms, Monte Carlo methods and real-time rendering.

COMPUTER SCIENCE

Algorithms, Data structures, Numerical Methods

Strong knowledge of computer science fundamentals and mathematical tools.

LANGUAGES

ITALIAN Native speaker

ENGLISH C1 level

PERSONAL

📍	Rome, via delle giunchiglie 19
☎	+39 3460188233
✉	nazzarogiacomo@gmail.com
🔗	giacomonazzaro.github.io