



Date of birth / 22/07/1997  
Nationality/ citizenship / Italy  
Driving licence / B  
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## FOREIGN LANGUAGE SKILLS



MOTHER TONGUE(S): Italian



ENGLISH  
EXCELLENT C1 C2 C1 C1 C1

## DIGITAL COMPETENCES

### DigComp

Information and data literacy **Proficient user**

Communication and collaboration  
**Proficient user**

Digital content creation **Proficient user**

Safety **Proficient user**

Problem solving **Proficient user**



### MASTER'S DEGREE 2020 - 2024 CERTIFIED TITLE



ALMA MATER STUDIORUM  
UNIVERSITÀ DI BOLOGNA

## ACADEMIC STUDIES

Alma Mater Studiorum - Università di Bologna  
Scuola di Scienze

Master's Degree Course in Computer Science

specific field of the degree course: curriculum a: tecniche del software

LM-18 - 2nd level degree in Computer Science

Dissertation/thesis title: Computational graphics tools for the textile industry | Thesis supervisor: MORIGI SERENA |

Dissertation/thesis keywords: normal integration, texture mapping, 3D printing

Age at graduation: 26 | Official duration: 2 years

Final degree mark: **110/110 cum laude**

Graduation date: 14/03/2024

### BACHELOR'S DEGREE 2016 - 2020 CERTIFIED TITLE



UNIMORE  
UNIVERSITÀ DEGLI STUDI DI  
MODENA E REGGIO EMILIA

Università degli Studi di MODENA e REGGIO EMILIA  
Dipartimento di Scienze Fisiche, Informatiche e Matematiche  
INFORMATICA

L-31 - 1st level degree in Computer Science

Dissertation/thesis title: Applicazione Web per dati genomici: progetto e implementazione di un visualizzatore circolare |

Dissertation/thesis subject: BASI DI DATI | Thesis supervisor: MARTOGLIA RICCARDO | Dissertation/thesis keywords: Basi di dati MongoDB Plotly Applicazione Web Interattività

Age at graduation: 23 | Official duration: 3 years

Final degree mark: **110/110**

Graduation date: 16/09/2020

### SCIENTIFIC CERTIFICATE REGGIO NELL'EMILIA 2016

Scientific High School, Applied Sciences option  
'A. ZANELLI', REGGIO NELL'EMILIA (RE)

School-leaving examination mark: **100/100**

Kind of secondary school diploma: Italian secondary school diploma

Kind of secondary school attended: Public school



computer scientist  
ALMA MATER STUDIORUM  
- UNIVERSITÀ DI BOLOGNA  
Textile, clothing and  
handicraft production  
(BO)  
04/2023 - 08/2023

## WORK EXPERIENCES

**Main activities and responsibilities:** Research and development of computer graphics techniques for three-dimensional surface reconstruction from normal map images for the PNRR PE11 project 'Advanced virtual tools for digital acquisition and visual/haptic XR interaction for textile industry'. Supervisors: Prof.ssa Serena Morigi, Dott. Martin Huska.

**Acquired skills and achieved objectives:** Theoretical and technical knowledge of normal integration and texture mapping procedures; analysis and comparison of three-dimensional surfaces; 3D printing.

Employed as: intern/trainee - undergraduate internship | Number of hours: 180 | Company sector: Engineering and design



### APPLICATION SOFTWARE

### COMPUTER PROGRAMMING

## INFORMATION TECHNOLOGY SKILLS

**CMS - Web publishing:** Django - Web framework (Advanced)

**Javascript libraries:** jQuery (Intermediate) | **Markup languages:** CSS

(Intermediate) , HTML (Advanced) , LaTeX (Intermediate) |  
**Programming languages:** C (Advanced) , C++ (Intermediate) , Java (Advanced) , Mathematica (Foundation) , OpenGL (Intermediate) , Python (Advanced) , Scala (Intermediate) | **Web Programming:** AJAX (Intermediate)

## DATA MANAGEMENT

**Big Data:** MongoDB (Advanced) | **DBMS:** PostgreSQL (Advanced)

## GRAPHICS AND MULTIMEDIA

**3D graphics:** Blender (Intermediate) | **Raster graphic editor:** Adobe Photoshop (Advanced)



## PUBLICATIONS

### JOURNAL ARTICLES 2020

**Gaia Ghidoni, Riccardo Martoglia, Cristian Taccioli, Chiara Vischioni,**  
InstaCircos: a Web Application for Fast and Interactive Circular  
Visualization of Large Genomic Data  
Review: 2020 24th International Conference Information  
Visualisation (IV)  
Publisher: IEEE  
The project InstaCircos: a web application born from the scientific  
collaboration between Big Data Analytics and Bioinformatics  
researchers and aiming at overcoming the available tools'  
limitations for genomics data visualization in the circular format.  
[ieeexplore.ieee.org/document/9373287](https://ieeexplore.ieee.org/document/9373287)