



Computer graphics specialization:

- ✓ Signal processing
- ✓ **Computer Graphics:**
 - Geometric modelling: Subdivision, simplification, parametrization; Parametric and implicit surfaces, deformable geometry; 3D reconstruction
 - Real-time rendering: Lighting modelling and simulation; Appearance analysis and synthesis, SFX; GPU programming (OpenGL)
 - Animation: skeleton, dressing, collision detection and management; Laws of motion; Direct/inverse kinematics
 - Game design: Usability of interactive systems; UX in games
- ✓ Image analysis and processing and Computer vision
- ✓ Analysis and synthesis of sound and digital video environments

Computer Sciences

- ✓ **System:** System Primitives, Parallelism (heavy/light processes, OpenMP, SIMD, CUDA), MIPS Assembler
- ✓ **Algorithmics:** Data Structures, Graph Theory, Languages and Automata, AI
- ✓ **Networks:** Architecture, Sockets, Network and Transport Layers, Routing
- ✓ **Languages:** C, C++, Python, Java, OCaml, Matlab, JavaScript, HTML/PHP/CSS

Achievements

- ✓ Radium-Engine improvements: painting application; implementation of Position Based Skinning

Personal experience

- ✓ **Development:** video games¹(Unreal Engine + Blender), browser add-on²
- ✓ **System administrator** of (self-hosted) servers, yunohost french OS applications contributions
- ✓ **Translation:** games and videos: English→French: « *Dex* », « *Hacknet* », « *Computerphile* »
- ✓ **QA** (Bug Tests and Reports) of independent games: « *Rodina* », « *Quadrilateral Cowboy* »

Work Experience

- September 2017 – December 2019 **Librarian (“BIATSS”)** at the University Toulouse III – Paul Sabatier
Handle the computer room, Welcome & advice users, Lend quiz remotes
- November 2016 – June 2018 **Consultant Student** at the junior entreprise Upsilon (Toulouse III – Paul Sabatier)
Take part in professional interviews, Lead client meetings, Translate functional requirements into specifications
- March 2015 – June 2015 **Bioinformatics Technician** (3 months internship at the term of DUT)
“Assembly of a pipeline for the analysis of pathogenic bacteria by high throughput sequencing”
at Bacteriology Laboratory of G. Montpied Teaching Hospital at Clermont-Ferrand
Develop in Python, Integrate the state of the art, Type genetic sequences, Detect genes
- September 2011 – July 2012 **Librarian (“BIATSS”)** at the University Toulouse II – Le Mirail
Manage Japanese resources and IT equipment, Welcome users, Cataloguing (SUDOC type)

Education

- 2017 – 2019 **Master’s degree: Computer Graphics and Image Processing (“IGAI”)**
at the University Toulouse III – Paul Sabatier (31 – Toulouse)
- 2015 – 2017 **Bachelor’s Degree: Computer Science**
at the Universities of Strasbourg (67 – Strasbourg) & Toulouse III – Paul Sabatier (31 – Toulouse)
- 2013 – 2015 **2 years technical degree (“DUT”) Biological engineering, Bioinformatics option**
at Aurillac’s branch of the IUT of Clermont-Ferrand (15 – Aurillac)
- 2010 – 2012 **Attempted Bachelor’s Degree: Japanese Language and Culture (“LLCE”)**
at the University Toulouse II – Le Mirail (31 – Toulouse)

Languages

English: B2 level – TOEIC: 895/990 (2015)

Japanese: former academic project

– grammar
– culture
– literature
– history
– geography

Certifications

B Driving Licence (2010) **IT&Internet Certificate lv.1** (“C2I”: 2014) **Civic rescue lv.1** (“PSC1”: 2015)

Hobbies

Monitoring: FOSS, Computer Graphics, Video game industry, Net neutrality, IT security

Music: Computer-aided music, Guitar, Violin

Sports: Inline Skating; Flat Track Roller Derby Non-Skating Official