



# Samuel Gomes

## Personal Data

### Nationality

Portuguese

### Birth Date

14/11/95 (24 years old)

## Idioms

### Portuguese

*Birth Language*

### English

### Mandarin

*Introductory Business Mandarin Course by Portal Maritim Moniz*

## Education

### Instituto Superior Técnico

- o Masters in Computers and Inf. Eng.

*Grad. Date: July of 2017*

- o Bachelor in Computers and Inf. Eng.

*Grad. Date: July of 2015*

### Escola Secundária Leal da Câmara

*Grad. Date: June of 2012*

## Skills

### Programming Languages

Python, C#, C++, Java, HTML, C, HTML, CSS, JavaScript, JQuery, PHP, SQL, Prolog, R

### Other Data Formats

XML, JSON, MultiDim

### Libraries and Frameworks

django, pygame, d3.js, node.js, express.js, CUDA, AWS API

### Tools

Git (GitKraken, SourceTree), Unity 3D, Pentaho Data Integration,

SPSS, FAtiMA Toolkit,

Mongo db, SQLite, Saiku, SQL Server,

Sublime, IntelliJ (IDEA, Rider), Visual Studio

Blender 3D, Inkscape, Krita, Paint.NET,

Audacity

## Operational Systems

Linux (Arch), Windows

## Specialities

### Data Processing and Analysis

- o Data Analysis and Integration
- o Information Visualization
- o Parallel and Distributed Computing
- o Cloud Computing and Virtualization

### Games

- o Computer Graphics
- o Artificial Intelligence
- o Multimedia Content Production
- o Autonomous Agents and Multi-Agent Systems

### Other Preferences

- o Data and Information Systems Analysis
- o 3D Programming

## Other Activities

### IST: Portfólio 1/2 Management

Coach in the coaching teams

## Awards

### IST Excellence Diploma

Associated to the Master Degree

### IST Merit Diplomas

Associated to the Bachelor and Master Degrees

Sintra – Lisboa/Lisbon – Portugal

✉ samuel.gomes@tecnico.ulisboa.pt • 🌐 samgomes.github.io • 💰 sam.s.gomes  
👤 SamGomes • 📞 0000-0001-8374-5064 • 📺 Samuel\_Gomes7 • in sam-s-gomes

## Work Experience

### IST

Teaching Experience (Assistant for Education Support in Logic for Programming 2019/2020 - 2nd Semester)

### IST, Inesc-ID

Researcher and developer in the GIMME (PhD) project since January of 2020 (already accepted and granted by FCT)

Research assistant and developer in the AMIGOS project (May of 2018 - December of 2019)

Research assistant and developer in the LAW-TRAIN project (October of 2017 - April of 2018)

## Publications

### IEEE CoG

**Gomes, Samuel**, João Dias, and Carlos Martinho.

"Group Interactions Manager for Multiplayer sErious games"  
2019

In: IEEE Conference on Games (CoG) 2019

### EPIA

**Gomes, Samuel**, João Dias, and Carlos Martinho.

"Iterative Parallel Sampling RRT for Racing Car Simulation"  
In: Progress in Artificial Intelligence. EPIA 2017  
2017

Lecture Notes in Computer Science, vol 10423. Springer, Cham.

### Msc Thesis

**Gomes, Samuel**, João Dias, and Carlos Martinho.

"Application and Design of GPU Parallel RRT for Racing Car Simulation. Case Study of Iterative Parallel Sampling RRT applied to The Open Racing Car Simulator"  
2017

Instituto Superior Técnico

### HRI

Correia, Filipa and Mascarenhas, Samuel F and **Gomes, Samuel** and Arriaga, Patrícia and Leite, Iolanda and Prada, Rui and Melo, Francisco S and Paiva, Ana

"Exploring Prosociality in Human-Robot Teams"  
2019

In: 14th ACM/IEEE International Conference on Human-Robot Interaction (HRI'19)

### AAMAS

Santos, Fernando P and Mascarenhas, Samuel F and Santos, Francisco C and Correia, Filipa and **Gomes, Samuel** and Paiva, Ana

"Outcome-based Partner Selection in Collective Risk Dilemmas"  
2019

In: Proceedings of the 18th International Conference on Autonomous Agents and MultiAgent Systems

### Software X

Alves-Oliveira, P., **Gomes, S.**, Chandak, A., Arriaga, P., Hoffman, G., & Paiva, A.

"Software architecture for YOLO, a creativity-stimulating robot"

2020

SoftwareX, 11, 100461.

### RSS

Correia, F., **Gomes, S.**, Mascarenhas, S., Melo, F. S., & Paiva, A.

"The Dark Side of Embodiment Teaming Up With Robots VS Disembodied Agents"

2020

In Robotics: Science and Systems

## Extracurricular Activities

### HAC

Supervisor in the project HAC from September of 2019 to June of 2020

(<https://www.treetree2.org/hac>)

### Hack for Good

Participant in Gulbenkian Hack for Good 2017

(<https://github.com/SamGomes/hack-for-good-2017>)

### Google HashCode Competitions

Participant in Google HashCode 2018

(<https://github.com/SamGomes/hash-code-2018>)

Participant in Google HashCode 2019

(<https://github.com/SamGomes/hash-code-2019>)

### Global Game Jams

Participant in GGJ 2018 @ Técnico/Belas-Artes

Participant in GGJ 2019 @ Técnico/Belas-Artes

Participant in GGJ 2020 @ Técnico/Belas-Artes