

# Nathan Ramoly

## PhD in Computer Science

 15 June 1991 — French

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 Driving License B

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## ACADEMIC BACKGROUND



### PhD in Computer Science

Télécom SudParis, Paris Saclay

2014 - 2018 (defended 2<sup>nd</sup> of July), Evry, France

- **Subject:** *Heterogeneous contextual data integration in open and opportunistic smart environment: application to humanoid robots*
- **Supervisors:** Amel Bouzeghoub and Béatrice Finance

### Research Master COSY

UFR des Sciences, UVSQ

2013 - 2014, Versailles, France

### Engineer Degree in Computer Science

ISTY, UVSQ

2009 - 2014, Vélizy, France

### Scientific Baccalauréat

2009, Versailles, France

## SKILLS



### General

Robotics, Reasoning, Reinforcement Learning, Task Planning, Context Awareness, Ontologies

### Programming Languages

C/C++, Java, Python, HTML, PHP, JavaScript

### Operating Systems

Windows, Linux, Android, NaoOS (Gentoo)

### Data Management and Modelling

SQL, PL/SQL, UML, SPARQL, Jena, Protégé

### Robotics & Others

ROS, NaoQi, OpenCV, Kinect SDK, Weka, Esper

### Tools & IDE

Latex, Office, Choregraphe, Arduino, Eclipse, Visual Studio, Android Studio, WordPress

### Currently Learning

Unity, R

## EXPERIENCE



### PRiSM Laboratory, UVSQ — Intern

April 2014 - September 2014, Versailles, France

- **Subject:** *Smart robot in an open and opportunistic smart environment*
- **Supervisors:** Béatrice Finance and Vincent Hugel

### Motor Skills Team, GRCTH — Intern

May 2013 - September 2013, Garches, France

- **Subject:** *Design of a simple and affordable movement analysis system based on Kinect*
- **Supervisor:** Didier Pradon

### Robocup L3M Team — Member

2011 - 2013

- Participation in German Open and Robocup
- **Team Leader:** Vincent Hugel

## OTHER



### Languages

- **French:** mother tongue
- **English:** advanced, TOEIC (2014, score: 960)

### Volleyball Association

- Organizer/volunteer in events (Volleython)
- Webmaster and content creator
- Player

### Robotic Events

- Jury in regional FLL, Meudon, 2016 - 2018
- Intervention at Car Tec-Inno, Vierzon, 2012 - 2013
- Interventions in schools, fairs, and more...

### Hobbies

Photography, Gaming, Programming

## TEACHING

### UFR des Sciences, UVSQ — ATER

2017 - 2018, Versailles, France

- Introduction to Programming (C Language) — 108h
- Techniques and Tools for Development — 36h
- Programming, Software Engineering, Proves (Advanced Java) — 48h

### Télécom SudParis — PhD Student

2015 - 2017, Evry, France

- Databases and Modelling — 42h
- Smart Home Project (Datascale Master) — 49h

### Télécom Ecole de Management — PhD Student

2015 - 2017, Evry, France

- Modelling, Databases and Information Systems — 26h
- Introduction to Programming — 10h



## PUBLICATIONS

- 2017 — **A Causal Multi-Armed Bandit Approach for Domestic Robots' Failure Avoidance**  
24th International Conference on Neural Information Processing (ICONIP 2017)  
*Nathan Ramoly, Amel Bouzeghoub and Béatrice Finance*
- 2017 — **LEAF: Using Semantic Based Experience to Prevent Task Failures**  
11th Conference on Field and Service Robotics (FSR 2017)  
*Nathan Ramoly, Hela Sfar, Amel Bouzeghoub and Béatrice Finance*
- 2017 — **A Framework for Service Robots in Smart Home: An Efficient Solution for Domestic Healthcare**  
6th Journées d'Etude sur la TéléSANTé (JETSAN 2017)  
*Nathan Ramoly, Amel Bouzeghoub and Béatrice Finance*
- 2017 — **CAREDas: Context and Activity Recognition Enabling Detection of Anomalous Situation**  
16th Conference on Artificial Intelligence in Medicine (AIME 2017)  
*Hela Sfar, Nathan Ramoly, Amel Bouzeghoub and Béatrice Finance*
- 2017 — **AGACY Monitoring: a hybrid model for activity recognition and uncertainty handling**  
4th Extended Semantic Web Conference (ESWC 2017)  
*Hela Sfar, Amel Bouzeghoub, Nathan Ramoly and Jérôme Boudy*
- 2017 — **Refining Visual Activity Recognition with Semantic Reasoning**  
31st International Conference on Advanced Information Networking and Applications (AINA 2017)  
*Nathan Ramoly, Vincent Vassout, Amel Bouzeghoub, Mounim A. El Yacoubi and Mossaab Hariz*
- 2016 — **Context-aware Planning by Refinement for Personal Robots in Smart Homes**  
47th International Symposium on Robotics (ISR 2016)  
*Nathan Ramoly, Hela Sfar, Béatrice Finance and Amel Bouzeghoub*
- 2016 — **A Fuzzy Semantic CEP Model for Situation Identification in Smart Homes**  
22nd European Conference on Artificial Intelligence (ECAI 2016)  
*Amina Jarraya, Nathan Ramoly, Amel Bouzeghoub, Khedija Arour, Amel Borgi, Béatrice Finance*
- 2016 — **FSCEP: a new model for Context Perception in Smart Homes**  
24th International Conference on COOPERative Information Systems (CoopIS)  
*Amina Jarraya, Nathan Ramoly, Amel Bouzeghoub, Khedija Arour, Amel Borgi, Béatrice Finance*

