


Loic Guegan

 +33 767 19 09 66

 loic.guegan@mailbox.org

 <http://www.loicguegan.com>

Education:

PhD defense on 29 of January 2021

Since october 2017 — PhD at IRISA/INRIA funded by ENS Rennes

During my PhD I worked on the development of a wired network energy model and a Wi-Fi performance model for the simulation of large-scale platforms. I worked on several network simulators such as SimGrid and ns-3. I had the occasion to deploy distributed experimentations on different clusters of the Grid'5000 testbed.

2015 - 2017 — Master's degree in Software Engineering at the
University of Rennes 1

2012 - 2015 — Bachelor's degree in Computer Science at the
University of Reunion Island

Teaching:

2019 – 2020

- **Network Engineering (16h TP):** VLAN, DHCP, NAT, STP, Cisco routers/switches
- **Functional and Immutable Programming (18h TP):** Scala, algebraic data types, high order, recursion
- **Cooperation/Concurency in Computer Systems/Networks (32h TP):**
Java, multithreading, synchronisation mechanisms, OOP

2018 - 2019

- **Functional and Immutable Programming (12h TD, 20h TP):** Scala, algebraic data type, high order, recursion
- **Computer Achitecture (16h TD, 16h TP):** Java, Logical circuits, ISA, process management, I/O, memory management, file system and assembly

2017 - 2018

- **Linux System Programing (30h TP):** C, system calls, sockets, shared memory, cache management

Internship:

2019 – 2 months internship at DMTCP laboratory at Northeastern University (Boston US) working on Intel DVFS performance prediction

2017 – 6 months internship at the French Research Institute for Exploitation of the Sea in collaboration with the University Institutes of Technology of Reunion Island (France) on Lora radio beacon geolocation for sea turtles geolocation

2016 – 3 months internship at "Distri Éducation" in Rennes (France) on autonomous terminal for task automation

Scientific Publications:

- Loic Guegan, Anne-Cécile Orgerie. **Estimating the end-to-end energy consumption of low-bandwidth IoT applications for WiFi devices.** CloudCom2019, Dec 2019, Sydney, Australia.
- Loic Guegan, Betsegaw Amersho, Anne-Cécile Orgerie, Martin Quinson. **A Large-Scale Wired Network Energy Model for Flow-Level Simulations.** AINA 2019 - 33rd International Conference on Advanced Information Networking and Applications, Mar 2019, Matsue, Japan. pp.1-12.
- Loic Guegan, N. M. Murad, S. Bonhommeau. **Sea Turtles Geolocalization in the Indian Ocean: An Over Sea Radio Channel framework integrating a trilateration technique.** In IOP Conference Series: Materials Science and Engineering, 2018, IOP Publishing.
- Loic Guegan, N. M. Murad, J. Lebreton, S. Bonhommeau. **Integrating over sea radio channel for sea turtles localization in the Indian Ocean.** 2017.
- N. M. Murad, Loic Guegan, S. Bonhommeau. **Why satellite localization beacons are not adapted for marine turtles' study: A sea wireless sensors network solution.** 2017 Global Information Infrastructure and Networking Symposium (GIIS), St. Pierre, pp. 79-86.

Scientific Reviews:

2020 – IEEE ISCC 2020

2019 – Elsevier, Journal of Computational Design and Engineering
– Euro-Par

Other Activities:

- Elected member of the Irista laboratory council (from 11/15/18 to 11/30/20):
- Animator at the "Informatique débrancher" to introduce Computer Science to schoolboys
- Presentation at XUG (eXperimental User Group) at IRISA Rennes France

Hobbies:

- Chess
- Sport
- Software Development