

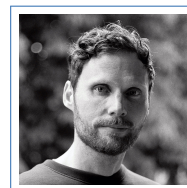
# François LEMERCIER

Associate Professor at  
Université de Rennes 1



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## Personal information

Nationality *French*

Birthdate [REDACTED]

## Professional Experience

09/2022– Present **Associate Professor**, *Université de Rennes 1 / ISTIC / IRISA*, MYRIADS team, Rennes, France.

**Details:** Header of the "Master Informatique parcours RSSI"

03/2020– 08/2022 **Postdoctoral Researcher**, *CNRS / IRISA*, MYRIADS team, Rennes, France.

**Subject:** "Impact of the TIC networks performance on the Energy Efficiency in Smart Grids networks"

12/18– 03/2020 **Postdoctoral Researcher**, *National Institute of Standards and Technologies (NIST)*, Gaithersburg, USA.

**Subject:** "5G Team: Implementation and evaluation of 802.11ay MAC"

12/15–12/18 **Ph.D. Candidate**, *Itron / IMT Atlantique*, Issy-Les-Moulineaux / Rennes, France.

**Subject:** "Multiple interface management in Smart Grid networks"

12/09–11/15 **Engineer**, *University of Rennes 1*, Rennes, France.

**Description:** Coordinator of the Bachelor degree SPH, involved in several projects with ESIR engineering school. Main tasks:

- Writing courses and practical activities of most of building and home automation protocols (KNX, LonWorks, BACnet, Modbus, DALi, EnOcean)
- Trainees supervision of Master thesis and engineer projects (ESIR / ISTIC)
- Header of the KNX training center of University of Rennes 1

08/06–11/09 **Software Engineer**, *Marsollier Domotique*, Rennes, France.

**Description:** Several projects related to Java application controlling building efficiency

04/06–07/06 **Engineer Internship**, *Marsollier Domotique*, Rennes, France.

**Subject:** "A KNX web application for home remote control"

Teaching **2009 - 2016**, *University of Rennes 1*, Lectures & Lab Session, Eng. / M.Sc. / B.Sc

**Topics:** "Building Automation protocols, Supervision software, Java programming"

## Education

2015–2018 **Ph.D. in Computer Science**, *OCIF, IRISA, IMT Atlantique*, Rennes, France.

**Thesis title** "Multiple hybrid interface management in Smart Grid networks"

**Thesis supervisor:** Prof. Nicolas Montavont & Dr. Laurent Toutain

2013–2014 **M.Sc. in Computer Science**, "*Ingénierie des TIC pour les éco-activités*", University of Rennes 1, Rennes, France - Mention: "Très Bien"

- 2005–2006 **M.Sc. in Electrical Engineering**, "*Electronique, Domotique et Réseaux Intérieurs*", University of Rennes 1, Rennes, France - Mention: "Bien"  
Master Thesis: "A KNX web application for home remote control", supervised by Morgan Beaubras.
- 2003–2004 **B.Sc. in Electrical Engineering**, "*Ingénierie Electrique*", University of Rennes 1, Rennes, France - Mention: "Passable" (Rank: 3/41)

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## Languages

French Mother tongue  
English Fluent

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## Skills

- Network protocols
  - IEEE 802.15.4 - IEEE P1901.2 - 802.11ad - ay - G3-PLC
  - 6tsch, CSMA, 6LoWPAN
  - Reactive Routing protocols: AODV, LOAD, LOADng
  - Proactive Routing protocols: RPL
- Network simulators
  - Riverbed Modeler
  - Simgrid
  - ns-3
  - Cooja
- Field protocols
  - BACnet, LonWorks, KNX, ModBus, Zigbee, Z-wave, MS/TP, X3D
- Languages **C, C++, Java, Python**
- Operating systems **Linux, Contiki OS, Mac OS, Windows**
- Others **Docker, Git, Subversion, Eclipse, L<sup>A</sup>T<sub>E</sub>X**
- [Books and Online Course](#)
- 2014 [t1-b1] "*Usage de l'habitat*", [F. Lemercier](#), C. Cappe, M. C. Godet, P. Barbel & E. Poilvet, **ENVAM** - [www.envam.org](http://www.envam.org), February 2014.

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## Scientific activities

### [PC Membership, Reviewer](#)

- 2020 **IEEE ISCC 2020**, Rennes, France
- 2019 **IEEE DIPI '19**, Washington D.C., USA
- 2018 **AdHoc-Now 2018**, Saint-Malo, France

### [Other](#)

- 2020 **Qualification aux postes de Maitre de conférence**

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## Interests & hobbies

- 2017-2018 Secretary of ADER, Ph.D. students association of IMT Atlantique, Rennes, France  
Reading, playing music, electronic / 3D printing, badminton, traveling.