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romain-jacob-eth   in

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*Academic age as defined by ETH

Romain Jacob

Senior Researcher

Sustainable Networking expert – Open Science enthusiast

4.3 years of postdoctoral activities*

Education

2015–2019	Doctorate in Computer Science "Leveraging Synchronous Transmissions for the Design of Real-time Wireless Cyber-Physical System" Supervised by Prof. Lothar Thiele **ETH Zurich**, Switzerland
2011–2014	Master in "Engineering of Complex Systems" Advised by Prof. Jean-Jacques Lesage **École Normale Superieure (ENS) de Cachan**, France
2012–2013	Agrégation in Industrial Science—Mechanics major *French national exam for higher education teachers* Master in "Faculty Training for Higher Education" **École Normale Superieure (ENS) de Cachan**, France
2010–2011	Bachelor in Mechanical Engineering **Université Pierre et Marie Curie** (UPMC, Paris 6), France

Experience

2020–current	Postdoctoral Researcher Networked Systems Group, headed by Prof. Laurent Vanbever **ETH Zurich**, Switzerland
2015–2020	Doctoral Student and Scientific Assistant Computer Engineering group, headed by Prof. Lothar Thiele **ETH Zurich**, Switzerland
2013–2014	Visiting Scholar Vehicle Dynamics and Control laboratory, headed by Prof. Karl J. Hedrick[†] **University of California (UC) Berkeley**, CA, USA
2012–2013	Scientific Consultant Project with **Aldebaran-Robotics**, creators of Nao the humanoid robot Paris, France
2012	Research Intern Automation research group, supervised by Prof. Martin Fabian **Chalmers University of Technology**, Göteborg, Sweden

Distinctions

2022	BenchCouncil Distinguished Doctoral Dissertation Award
2019	Best Paper Award, ACM ICCPS
	Best Demo Award, ACM/IEEE IPSN
	Future Prize, second prize, Ewald Marquardt Foundation
2017	Finalist, Famelab Switzerland
2016	Finalist, "My Thesis in 180s" competition organized by Nano-Tera.ch
2014	Ranked 1st at the Agrégation in Industrial Science (national exam)
2013	Research scholarship from the French Academy (Walter-Zellidja Foundation)

Open source projects

Software	**TriScale**
	Framework helping to make the experiment design and data analysis more replicable
	triscale.ethz.ch
Dataset	**Synchronous transmissions on Bluetooth 5 and IEEE 802.15.4**
	Dataset and analysis scripts of a replication study of synchronous transmissions using the nRF52840 Dongle
	10.5281/zenodo.3964354
	Data visualization: explore-st-data.ethz.ch
Software	**Time-Triggered Wireless Architecture**
	Public software and artifacts related to the Time-Triggered Wireless Architecture project
	10.5281/zenodo.3759221
Dataset	**Wireless Link Quality Estimation on FlockLab – and Beyond**
	Dataset of wireless link quality estimation for the FlockLab testbed
	10.5281/zenodo.3354717
Software	**Baloo**
	Design framework for network stacks based on Synchronous Transmissions
	10.5281/zenodo.3510171
Software	**The Distributed Real-time Protocol**
	Simulation code and experiment results for the Distributed Real-time Protocol project
	10.5281/zenodo.3530757
Software	**The Low-power Wireless Bus**
	Implementation of LWB for the TelosB mote
	github.com/ETHZ-TEC/LWB-Baseline