

JAIME ARIAS

Institut Galilée, Université Sorbonne Paris Nord
99, Avenue Jean-Baptiste Clément
93430, Villetaneuse, France

arias@lipn.univ-paris13.fr
+33 (0)1 49 40 40 67
<https://www.jaime-arias.fr>

Personal Information

Given Name: Jaime Eduardo **Last Name:** Arias Almeida **Birth Date:** 15/04/1989 **Citizenship:** Colombian

Research Interests

Formal specification and verification of timed and reactive concurrent systems; interactive multimedia systems.

Experience

- Research Engineer** at *CNRS, Laboratoire d'Informatique de Paris Nord (LIPN), France.* **2018 - Present**
- R&D Engineer** at *Inria Grenoble Rhône-Alpes, France.* **2016 - 2018**
- R&D Engineer** at *Inria Bordeaux Sud-Ouest, France.* **2015 - 2016**

Education

- Ph.D. in Computer Science** at *Université de Bordeaux, France.* **2012 - 2015**
- Engineering Degree in Computer Science** at *Universidad Javeriana, Colombia.* **2005 - 2012**
- Electronics Engineering Degree** at *Universidad Javeriana, Colombia.* **2005 - 2012**

Research Projects (5 Last Years)






- MSH Paris Nord** project with Javeriana University (Colombia), SAT (Québec) and Bordeaux (France) – **PI** **2024 - Present**
- USPN** project with Javeriana University (Colombia), POSTECH (South Korea) and FST (Tunisia) – **PI** **2024 - Present**
- PHC Aurora** project with the University of Oslo (Norway) – **Member** **2023 - Present**
- IEA** project, CNRS/PAN, with the Polish Academy of Sciences (Poland) – **Member** **2019 - 2023**
- Project funded by **CNRS**, with the University of Oslo (Norway) – **Member** **2022 - 2022**
- IFD** collaborative project with the University of Århus (Denmark) – **Member** **2020 - 2021**

Responsibilities

- Responsible** of the development committee of the **LIPN** since January 2023.
- Responsible** of the development team of the **LIPN** since February 2021.
- Board member** of the **Galilée Doctoral School** since July 2021.
- Ambassador** of **Software Heritage** since June 2021.
- Programme Committee** member of *AAMAS2024, Microservices 2022, SLTC 2022* and *15CCC*.
- Artifact Evaluation** member of *OOPSLA 2024, POPL 2023-2024, ICFP 2022-2023, FormaliSE 2022-2023*, and *FORMATS 2023*.
- Tool Award Committee** member of *Petri Nets 2020-2021*.
- Jury** of the "Applications and Softwares" session of the **APSA Challenge - Ethiopia 2018**.

Tools

The reader can visit my Git repository (<https://bit.ly/gitArias>) to see the full list of my developments.

- ADT2AMAS** (https://bit.ly/demoADT2AMAS
- CosyDraw** (https://bit.ly/demoCosyVerif
- Solidity2CPN** (  

Publications

Author of 27 conference papers and 4 journal papers. The reader can find all my publications on HAL (<https://bit.ly/halArias>).

- J. Arias, K. Bae, C. Olarte, P. C. Ölveczky, and L. Petrucci. A rewriting-logic-with-SMT-based formal analysis and parameter synthesis framework for parametric time Petri nets. *Fundam. Informaticae*, 2024.
- J. Arias, K. Bae, C. Olarte, P. C. Ölveczky, L. Petrucci, and F. Rømming. Symbolic analysis and parameter synthesis for networks of parametric timed automata with global variables using maude and smt solving. *Science of Computer Programming*, 233, 2024.
- J. Arias, C. Olarte, L. Petrucci, L. M. sko, W. Penczek, and T. Sidoruk. Optimal scheduling of agents in ADTrees: Specialized algorithm and declarative models. *IEEE Transactions on Reliability*, 2024.
- Étienne André, J. Arias, B. Barbot, F. Hulin-Hubard, F. Kordon, V.-F. Le, and L. Petrucci. CosyVerif: the path to formalisms cohabitation. In *Petri Nets*, volume 14628 of *LNCS*, pages 432–444. Springer, 2024.
- J. Arias, W. Jamroga, W. Penczek, L. Petrucci, and T. Sidoruk. Strategic (timed) computation tree logic. In *AAMAS 2023*, pages 382–390. ACM, 2023.