Laurent Christophe

Software Research Engineer

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I hold a Ph.D. in Computer Science and I'm currently working as a Software Research Engineer at Sirris. My expertise includes program analysis, language implementation, functional programming, and, more recently, generative AI.

After graduating in Civil Engineering from the Université Libre de Bruxelles (ULB) in 2012 with great distinction, I spent eight years conducting research at the Software Languages Lab (SOFT) of the Vrije Universiteit Brussel (VUB), focusing on dynamic code analysis. I have a strong publication record, with papers presented at prestigious international conferences such as ICSME, SANER, and GIPCE. With over 60 published npm packages and more than 650,000 total downloads, I have a proven track record of building open-source prototypes that are widely adopted and extended by others. My flagship project, Aran (a full-fledged JavaScript code instrumenter) has supported both internal and international collaborations and contributed to multiple publications.

Between 2020 and 2025, I have worked as a consultant for the Vrije Universiteit Brussel (VUB). For most of this time, I contributed to AppMap, a U.S.-based startup focused on runtime code analysis. There, I led the development of a JavaScript client for collecting large volumes of execution data, with seamless integration across server-side, client-side, and automated testing environments. I also contributed to several web- and mobile-based projects, including the development of the prototype for EasyWanit, a mobile application tasked with communicating via a custom Bluetooth protocol to a boiler. Over five years of industry consulting, I have developed strong software engineering skills, including agile methodologies, Git-based workflows, release pipelines, and continuous integration practices.

Since July 2025, I have been working as a Software Research Engineer at Sirris. In parallel, I continued my Ph.D. on provenance-aware dynamic analysis of JavaScript, which I successfully defended in January 2026. At Sirris, I am currently leading three research projects: LISA, which focuses on the risk and reliability of generative AI; GENIUS, which aims to leverage generative AI during all phases of software development; and Antenna, which helps companies leverage AI Factories. I am also involved in several commercial projects. For instance, I had the opportunity to develop a conversational interface with custom intent detection, RAG, and multilingual support. I also had the opportunity to develop a hierarchical MLP classifier, which achieved a 98% F1 score with a 30% rate of inconclusive flagging.