Aurèle Barrière

	Education
2019–2022	PhD student , ENS Rennes, Celtique Team (IRISA), Formal Verification of Just-in-Time Compilation, Supervised by Sandrine Blazy and David Pichardie.
2015–2019	Magistère in Computer Science, ENS Rennes, Four-year program focused on scientific research.
2016-2019	Master's Degree in Computer Science, University Rennes 1.
2017–2018	Prélab, ENS Rennes, Year dedicated to research internships.
2015-2016	Bachelor's Degree in Computer Science, University Rennes 1.
	Publications
POPL 2021	Formally Verified Speculation and Deoptimization in a JIT compiler, Aurèle Barrière, Sandrine Blazy, Olivier Flückiger, David Pichardie, Jan Vitek.
AAMAS 2019	Reasoning about Changes of Observational Power in Logics of Knowledge and Time, $ \\$
	Aurèle Barrière, Bastien Maubert, Aniello Murano, Sasha Rubin.
KR 2018	Changing Observations in Epistemic Temporal Logic, Aurèle Barrière, Bastien Maubert, Aniello Murano, Sasha Rubin.
	Program Comittees
OOPSLA 2022	External Review Comittee.
OOPSLA 2022	Artifact Evaluation Comittee.
	Research Internships
2019	Formally Verified Just-in-Time Compilation, IRISA, Supervisor: Sandrine Blazy.
2018	VST Verification of B+Trees with Cursors, Princeton University, Supervisor: Andrew Appel.
Winter 2017	Observation Change in Epistemic Temporal Logic, Universita degli Studi Federico II, Supervisors: Aniello Murano, Bastien Maubert and Sasha Rubin.
Summer 2017	Implementation of a C memory model for integer-pointer casts in CompCert, Seoul National University, Supervisor: Chung-Kil Hur.

2016 High level WCET estimation using Abstract Interpretation and Constraint Programming,

IRISA, Supervisors: Charlotte Truchet and David Cachera.

Teaching

- 2019–2022 **SEM**, *University Rennes 1*, An introduction to Coq, program semantics and compiler verification, With Sandrine Blazy and David Pichardie.
- 2021–2022 **Préparation Agrégation**, *ENS Rennes*, Preparing Students for the *Agrégation* teaching degree.
- 2019–2021 **GEN**, *University Rennes 1*, Software Engineering, With Thomas Genet.
- 2020–2021 **ACF**, *University Rennes 1*, Software Formal Analysis and Design, With Thomas Genet.