

Pablo Donato

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Post-doctoral researcher in Computer Science and Mathematics.

Education

Ph.D. in Computer Science

Institut Polytechnique de Paris

📅 2020 – 2024 📍 Palaiseau, France

Researched novel graphical interfaces for proof assistants.

M.Sc. in Computer Science

MPRI (Master Parisien de Recherche en Informatique)

📅 2018 – 2020 📍 Paris, France

B.Sc. in Computer Science

Université Pierre et Marie Curie

📅 2016 – 2017 📍 Paris, France

Experience

Post-doctoral researcher

Grothendieck Institute

📅 2024–Today 📍 Paris, France

Working on the formalization of topos theory in the Lean proof assistant.

[mathlib PR 1](#) [mathlib PR 2](#) [mathlib PR 3](#)

Teaching assistant

Université de Paris, École Polytechnique

📅 2020–2023 📍 Paris, France

Taught Java, Python and Web programming to bachelor students at various levels.

Projects

Flower Prover

📅 2023 – Present

The Flower Prover is a prototype of GUI for interactive theorem proving by direct manipulation of structured boxes called *flowers*.

[Try it!](#) [GitHub](#)

coq-actema

📅 2022 – Present

coq-actema is a system that integrates the interface of Actema in the Rocq proof assistant as an interactive proof view.

[GitHub](#)

Actema

📅 2020 – 2022

Actema is a prototype of GUI for interactive theorem proving by direct manipulation of formulas in goals.

[Try it!](#) [Frontend](#) [Backend](#)

Communications

Publications

The Flower Calculus

FSCD 2024

📅 July 2024 📍 Tallinn, Estonia

[DOI](#)

A drag-and-drop proof tactic

CPP 2022

📅 January 2022 📍 New York, USA

[DOI](#) [talk](#)

Conferences

The Flower Calculus

JMM 2025

📅 January 2025 📍 Seattle, USA

[abstract](#)

Actema : une interface graphique et gestuelle pour preuves formelles (démonstration)

JFLA 2022

📅 June 2022 📍 Saint-Médard-d'Excideuil, France

[abstract](#)

A drag-and-drop proof tactic

TYPES 2021

📅 June 2021 📍 Online

[abstract](#)

Symposiums and Workshops

The Flower Calculus

SYCO 12

📅 April 2024 📍 Birmingham, UK

[talk](#)

Integrating graphical proofs in Coq

CoqPL 2023

📅 January 2023 📍 Boston, USA

[talk](#)