

# Pablo Donato

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Post-doctoral researcher in Computer Science.

## 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

Teached 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](#)