

# JAN-PAUL VINCENT RAMOS-DÁVILA

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## EDUCATION

### Cornell University

2021 - 2025

Λ Bachelor of Arts in Computer Science & Philosophy  
Λ Competitive Programming Club

## EXPERIENCE

### Software Verification Researcher

05/2022 - Present

Λ Carnegie Mellon University, REUSE Pittsburgh, PA & Virtual  
Λ Advised by Dr. Jonathan Aldrich & Dr. Joshua Sunshine on Gradual Verification.  
Λ Developed a property based testing tool for evaluating soundness of the Gradual  $C_0$ .

### Programming Languages Researcher

10/2021 - Present

Λ Cornell University, CAPRA Ithaca, NY  
Λ Advised by Dr. Adrian Sampson in the Calyx compiler infrastructure team.  
Λ Implemented the Graphicionado graph analytics accelerator in Calyx.  
Λ Worked on a symbolic execution tool to verify Calyx code.

### Software Engineering Student

07/2021 - 08/2021

Λ Google Computer Science Summer Institute Virtual  
Λ Learned programming fundamentals in JavaScript directly from Google engineers.  
Λ Got an inside look at Google employee tools used for web development.  
Λ Developed a peer-to-peer instant messaging system with a web interface.

## PUBLICATIONS

Evaluating Soundness of a Gradual Verifier with Property Based Testing  
Λ Jan-Paul Ramos-Dávila

[SRC] POPL '23  
Boston, MA

## HONORS

Attendee, Programming Languages Mentoring Workshop Travel Scholarship

2022

Λ SIGPLAN Conference on Programming Language Design and Implementation

San Diego, CA

Finalist, Regeneron International Science and Engineering Fair

2020 & 2021

Λ Puerto Rico Regional Mathematics Fair—High School

Virtual

## RELEVANT COURSEWORK

CS 6110 Advanced Programming Languages

CS 4120 Introduction to Compilers

CS 6117 Category Theory for Comp Sci

PHIL 3340 Modal Logic

CS 6156 Runtime Verification

## TECHNICAL SKILLS

**Languages:** \*OCaml, \*Python, Java, JavaScript, Haskell, \*Scala, \*Rust, C, Coq, \*English, \*Spanish, Italian

**Tools:** \*Unix, \*VSCode, \*Git, IntelliJ IDEA, Docker, Jekyll, PEGjs, Neovim

\* Most proficient