

# Jan-Paul Vincent Ramos-Dávila

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I am a second-year undergraduate at Cornell University studying computer science and philosophy. My research involves designing and building tools for incremental program verification and optimization.

## Education

### Cornell University

2021 - 2025

Bachelor of Arts in Computer Science & Philosophy

λ Activities: Competitive Programming Club (ICPC), Cornell Cinema Volunteer

## Experience

### REUSE, Carnegie Mellon University

05/2022 - Present

Research Intern ☞

λ Advised by Dr. Jonathan Aldrich & Dr. Joshua Sunshine on Gradual Verification.

λ Developed a property based testing tool for evaluating soundness of Gradual  $C_0$ .

### CAPRA, Cornell University

10/2021 - Present

Undergraduate Research Assistant ☞

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.

### CSSI, Google

07/2021 - 08/2021

Software Engineering Student

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

POPL '23 (SRC)    **Evaluating Soundness of a Gradual Verifier with Property Based Testing** ☞  
Jan-Paul Ramos-Dávila

## Honors

**Travel Scholarship**, ACM SIGPLAN Conference PLDI

2022

**Finalist, Mathematics**, Regeneron International Science and Engineering Fair

2020 & 2021

## 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, \*Scala, \*Rust, Java, JavaScript, Haskell, C, Coq, \*English, \*Spanish, Italian

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

\* Most proficient