

# JAN-PAUL VINCENT RAMOS-DÁVILA

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## EDUCATION

### Cornell University

2021 - Present

λ Bachelor of Arts in Mathematics & Computer Science, Minor in Philosophy

## EXPERIENCE

### Carnegie Mellon University

05/2022 - Present

λ Research Intern

Pittsburgh, PA

Advised by Dr. Jonathan Aldrich & Dr. Joshua Sunshine on Gradual Verification through the REUSE internship. Developed an empirical soundness evaluation tool for the gradual verifier.

### Cornell University

10/2021 - Present

λ Undergraduate Researcher

Ithaca, NY

Advised by Dr. Adrian Sampson in the Computer Architecture & Programming Abstractions research group on tools for the Calyx compiler infrastructure. Designed tools for compiling high-level languages to hardware designs.

### Google CSSI

07/2021 - 08/2021

λ Software Engineering Student

Virtual

Studied programming fundamentals for web development in JavaScript directly from Google engineers and got an inside look at Google employee tools used for web development. Developed a peer-to-peer instant messaging system with a web interface.

## PUBLICATIONS

Emperical Soundness of Gradual Verification

[SRC] POPL '23

λ In Submission

Boston, MA

## HONORS

**Attendee**, Programming Language 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

**Graduate Level** Advanced Programming Languages

Object Oriented Design and Data Structures

**Graduate Level** Category Theory for Comp Sci

Discrete Structures

Data Structures and Functional Programming

Computer System Organization

## TECHNICAL SKILLS

**Languages:** OCaml, Coq, Python, Java, JavaScript, Haskell, Scala, Rust, C

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