

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