

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 Bachelor of Arts in Computer Science & Philosophy λ Activities: Competitive Programming Club (ICPC), Cornell Cinema Volunteer	2021 - 2025
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Experience

REUSE, Carnegie Mellon University 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 .	05/2022 - Present
CAPRA, Cornell University 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.	10/2021 - Present
CSSI, Google 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.	07/2021 - 08/2021

Publications

POPL '23 (SRC)	Evaluating Soundness of a Gradual Verifier with Property Based Testing ☞ Jan-Paul Ramos-Dávila
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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	CS 6115 Certified Software Systems
CS 6156 Runtime Verification	PHIL 3340 Modal Logic

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