

Jan-Paul Vincent Ramos-Dávila

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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

Coursework Projects

RNAfoldml *CS 3110 Functional Programming*

λ Developed an OCaml package that enables users to input both RNA sequences in FASTA format and a set of constraints to predict RNA secondary structure.

Honors

Travel Scholarship, ACM SIGPLAN Conference PLDI

2022

Finalist, Mathematics, Regeneron International Science and Engineering Fair

2020 & 2021

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