

John C. Kolesar

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Education

Yale University

Ph.D., Computer Science

Advisor: Ruzica Piskac

Earned M.S. en route to Ph.D. in 2022

New Haven, Connecticut

2020–2026 (anticipated)

Cornell University

Bachelor of Arts with Distinction in All Subjects

Ithaca, New York

2016–2020

Majors:

- Mathematics (Magna cum Laude, Computer Science concentration)
- Classics (Latin concentration)

Minors:

- Computer Science
- Philosophy

Cumulative Grade Point Average: 3.97

Computer Science GPA: 4.02

Honors.....

Phi Beta Kappa

Cornell University College of Arts & Sciences

2020

Arts & Sciences Dean's List

Cornell University

All available semesters

Graduate Course Work Performance.....

Grade of H (maximum grade for Yale GSAS) in all graduate courses

Research Interests

- Formal Methods
- Program Verification
- Symbolic Execution
- Automatic Program Repair
- Software-Defined Networking

Publications

- John C. Kolesar, Ruzica Piskac, William T. Hallahan. **Checking Equivalence in a Non-Strict Language.** *OOPSLA*, 2022.
- Jialu Zhang, De Li, John C. Kolesar, Hanyuan Shi, Ruzica Piskac. **Automated Feedback Generation for Competition-Level Code.** *ASE*, 2022.

Industry Work Experience

Microsoft One Engineering System

Research Intern, Remote

Summer 2022

Supervisor: Josh Becker

Mentor: Grant Holliday

Aretec Inc.

Big Data Software Application Developer

Summer 2018, Summer 2019

Contractor for U.S. Securities and Exchange Commission

New York City (2018)

Washington, D.C. (2019)

Teaching Experience

Graduate Teaching Fellow at Yale University.....

CPSC 435/535: Building an Internet Router

Taught by Robert Soule

Fall 2022

CPSC 433/533: Computer Networks

Taught by Anurag Khandelwal

Spring 2022

CPSC 323: Introduction to Systems Programming and Computer Organization

Taught by Ruzica Piskac and Rob Brunstad

Fall 2021

Undergraduate Teaching Assistant at Cornell University.....

CS 3110: Data Structures and Functional Programming

Taught by Nate Foster

Spring 2020

CS 4820: Introduction to Analysis of Algorithms

Taught by Eva Tardos

Fall 2019

CS 3110: Data Structures and Functional Programming

Taught by Michael Clarkson

Fall 2018

CS 2112: Honors Object-Oriented Design and Data Structures

Taught by Dexter Kozen

Fall 2017

Other Work, Research, and Volunteering Experience

Cornell University

Ithaca, New York

Computer Science Research

Fall 2019, Spring 2020

Research Advisor: Nate Foster

Subject: Software-Defined Networking with P4

Tenley Achievement Program

Washington, D.C.

Office Manager

Summer 2017

Yale University

New Haven, Connecticut

Ph.D. Student Buddy for Admitted Student Day

Spring 2022

Skills

- o Proficiency in Java, C, OCaml, Q, Haskell, Python
- o Experience with JavaScript, TypeScript, Coq, Standard ML, C++, C#, Kusto
- o Experience with Excel, LaTeX, Unity, Blender, VirtualBox, Docker