John C. Kolesar

Education

Yale University

New Haven, Connecticut 2020–2026 (anticipated)

Ph.D., Computer Science Advisor: Ruzica Piskac

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

Ithaca, New York *2016–2020*

Cornell University

Bachelor of Arts with Distinction in All Subjects

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

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

Publications

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

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

Research Advisor: Nate Foster

Subject: Software-Defined Networking with P4

Tenley Achievement Program

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

- Experience with JavaScript, TypeScript, Coq, Standard ML, C++, C#, Kusto
- o Experience with Excel, LaTeX, Unity, Blender, VirtualBox, Docker

Fall 2019, Spring 2020

Washington, D.C.