

**Jason Gross**  
**github.com/JasonGross**  
**people.csail.mit.edu/jgross**

CONTACT  
jgross@mit.edu  
(631) 790-8962

**RESEARCH INTERESTS**

Programming Languages, Formal Verification, Cryptography, Performance Engineering

**EDUCATION**

**Massachusetts Institute of Technology** 2013–2021  
PhD in Computer Science Cambridge, MA  
Advisor: Adam Chlipala  
*Thesis: Performance Engineering of Proof-Based Software Systems at Scale*  
*SM Thesis: An Extensible Framework for Synthesizing Efficient, Verified Parsers*

**Massachusetts Institute of Technology** 2009–2013  
BS in Mathematics and Physics Cambridge, MA  
GPA: 4.6/5

**EXPERIENCE**

**INTERNSHIPS**

**Google** June 2018–August 2018  
*Software Engineering Intern* Cambridge, MA  
• Worked with BoringSSL on integration of proven-correct low-level ECC primitives into Chrome

**MIT** Fall 2009–Present  
*Teacher* Cambridge, MA  
• Taught classes on L<sup>A</sup>T<sub>E</sub>X, philosophy, linear algebra, and quantum mechanics for MIT Educational Studies Program’s Splash, Spark, and Summer HSSP (High School Studies Program)  
• Teaching Assistant for 8.012 (Physics I) and 8.022 (Physics II) in Experimental Study Group

**Microsoft Research** June 2014–August 2014  
*Intern* Cambridge, United Kingdom  
• reated a language for specifying input/output behavior of x86 assembly programs; Verified the I/O behavior of a number of simple programs

**PROGRAMMING LANGUAGES**

- Proficient: Coq, Mathematica, git, Python, JavaScript, BASIC
- Working knowledge: C, C++, Agda, OCaml, Haskell, Scheme, HTML, CSS, Perl, Java
- Basic knowledge: Matlab, Lean, Idris, Ruby, Go, Ur/Web, x86 Assembly

**TEACHING**

- Instructor at Monsoon Math Camp: category theory, linear logic, Löb’s theorem
- TA for 6.172 (Performance Engineering): Led recitations, analyzed and explained assembly output of gcc -O3 to teach vectorization
- TA for 8.012 (Physics I) and 8.022 (Physics II) in Experimental Study Group

- Teacher at MIT ESP Programs: L<sup>A</sup>T<sub>E</sub>X, philosophy, linear algebra, quantum mechanics

#### **OTHER ACTIVITIES**

- Canada/USA Mathcamp (Summers 2006–2009)