# Jason Gross

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Present Address
258 Prospect Street, Apt 1L
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Permanent Address
126 Hayrick Lane
Commack, NY 11725

## Education

**Massachusetts Institute of Technology**, Cambridge, MA
Began Doctorate of Philosophy in Computer Science in September 2013

Bachelor of Science, June 2013
Major in Mathematics and Physics
Undergraduate G.P.A. 4.6/5.0

Relevant Coursework: Program Analysis, Performance Engineering of Software, Statistical Physics, Quantum Physics, Topology, Analysis, Waves & Vibrations, Special Relativity, Algebra

## Experience

**MIT** April 2012–Present
*Researcher* Cambridge, MA

- Entered a significant amount of category theory into the automated proof assistant Coq (`https://github.com/JasonGross/HoTT-categories`)
- Worked on building an interface for databases and database migration on top of category theory in Coq with David Spivak and Adam Chlipala

**MIT CSAIL** November 2009–September 2011
*Researcher* Cambridge, MA

- Designed from scratch a data collection webpage, collected data for, and helped with research on categorical and transfer learning (`http://jgross.scripts.mit.edu/alphabets/`).
- Co-author of "One shot learning of simple visual concepts".

**MIT** Fall 2009–Present
*Teacher* Cambridge, MA

- Taught classes on LaTeX, 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

## Computer Skills

- Proficient skills – BASIC, Python, Java, JavaScript, Mathematica, TeX macro language, Coq
- Working knowledge – Agda, C, C++, Scheme, Haskell, Matlab, HTML, CSS, git, LaTeX
- Basic knowledge – OCaml, Ur/Web

## Honors and Awards

- Collection of 12 original K'NEX synagogue models exhibited in various museums (2004–2008)

## Extracurricular Activities

- Canada/USA Mathcamp (Summers 2006–2009)
- SIPB (Student Information and Processing Board) Member
- Project leader for MITeX (`http://mitex.mit.edu/`), an online interface for composing LaTeX