
EDUCATION

M.S., B.S. Mathematics Yale University
GPA/Major GPA: 3.61/3.85 out of 4.00

Fall 2014-May 2018

TECHNICAL SKILLS

Languages	C, C++, C [‡] , Elm, Haskell, Java, Javascript, L ^A T _E X, MATLAB, Perl, Python, R, Ruby, Scheme
DSLs and Data Languages	HTML, CSS, XML, JSON, GLSL, YAML
Frameworks and Libraries	Ruby on Rails, Bootstrap, Yesod, OpenGL, NumPy, pandas
Operating Systems	Linux, Windows, MacOS
Software and Tools	Git, Vim, bash, Eclipse, Visual Studio

WORK EXPERIENCE, PROJECTS AND VOLUNTEERING

Undergraduate Math Research with SUMRY at Yale *Summer 2017*
I worked in a group of three to understand the structure of subdivisions of simplices with local-h zero. Local-h is a combinatorial invariant of subdivisions of simplices introduced by Richard Stanley which has received increased attention lately due to connections with intersection cohomology of toric varieties.

MIT Web Development Contest *January 2016*
With a friend from MIT I wrote a web app whose purpose was to allow users to form groups and schedule events and activities using Ruby on Rails, Bootstrap, and Angular.js.

Intern at the Laboratory of Neurocognitive Development *Summer 2016*
Worked on a variety of daily tasks for the lab. The large project we worked on at the time was updating the database interface. We used an Elm frontend on top of a PostgREST backend.

Counselor at the Ross Mathematics Program *Summer 2015*
Mentored high school students as they learned number theory and completed problem sets.

Volunteer Web Developer for MMATHS Project *Fall 2014*
A friend and I volunteered to write a web app using Ruby on Rails to allow other volunteers to submit problems for the MMATHS competition. Among many other things, I used the MathJax library to show problem previews for problems written in L^AT_EX, and created a page to edit and preview tests.

Junior Counselor at the Ross Mathematics Program *Summer 2014*
Having attended as a first year in Summer 2013, I was asked to return as a JC. I worked on finishing sets from my first year, graded first years' sets, and helped guide first years without giving away answers.

Volunteer at the Laboratory of Neurocognitive Development *Spring 2014*
Volunteered for two weeks (60+ hours) at the LNCD at the University of Pittsburgh for my senior project. I worked on the database interface for the lab's subject information (which was written with Mojolicious, Bootstrap, and AngularJS), a working memory task for a study written in MATLAB, as well as numerous smaller projects involving mostly bash scripting and data visualization with the aid of R.

Private Math Tutor *Fall 2013-Spring 2014*

Mathcounts Volunteer Coach *Fall 2010-Spring 2014*

RELEVANT COURSEWORK

Yale University
Data Structures and Programming Techniques (CPSC 223)

Fall 2014-Spring 2018

EXTRACURRICULAR ACTIVITIES AND PROJECTS

High School Programming Club *Fall 2010-Spring 2014*
President from Fall 2011 to Spring 2014. In the 2013-2014 school year, we wrote a video game in C[‡]. Since this was an educational project, I wrote most of the physics, graphics, math, and game libraries from scratch starting from the .NET Framework and Windows Forms.

Western PA ARML *Fall 2008-Spring 2014*

AWARDS AND ACCOMPLISHMENTS

Putnam Competition
Rank or rank group as currently known to me: 172,-,H,171
(Detailed score and rank information is not released publicly)

Winter 2014, 2015, 2016, 2017

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Jason Schuchardt

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St. Louis Park, MN 55416

USAMO Qualifier (Score: 14)

Spring 2014

High School Senior Math Award

Spring 2014

High School Senior Computer Science Award

Spring 2014

Yale Science & Engineering Association

Spring 2011

*Most Outstanding Exhibit in Computer Science, Engineering, Physics or Chemistry at the Pittsburgh
Regional Science & Engineering Fair*