

## EDUCATION

**M.S., B.S. Mathematics Yale University** ..... Fall 2014-May 2018  
*GPA/Major GPA: 3.61/3.85 out of 4.00*

## TECHNICAL SKILLS

Languages	C, C++, C#, Elm, Haskell, Java, Javascript, L <sup>A</sup> T <sub>E</sub> 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

- Worked in a group 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 is connected with the intersection cohomology of toric varieties.
- Paper in progress.

**MIT Web Development Contest** ..... January 2016

- Wrote a web app with a friend from MIT
- The app allowed users to form groups and schedule events and activities.
- Built with Ruby on Rails, Bootstrap, and Angular-js and used Google's Maps API.

**Intern at the Laboratory of Neurocognitive Development** ..... Summer 2016

- Worked on a variety of daily tasks for the lab.
- Used Elm to implement a frontend for 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

- Volunteered with a friend to write a web app for the Math Majors of America Tournament for High Schoolers (MMATHS).
- The app allowed volunteers to submit problems for the MMATHS competition.
- Used Ruby on Rails, Bootstrap, and MathJax.

**Junior Counselor at the Ross Mathematics Program** ..... Summer 2014

- Attended as a first year in Summer 2013 and was asked to return as a JC.
- Worked on finishing problem sets from the year before, graded first years' sets, and helped guide first years without giving away answers.

**Volunteer at the Laboratory of Neurocognitive Development (LNCD)** .... Spring 2014

- Volunteered for two weeks (60+ hours) at the LNCD at the University of Pittsburgh for my senior project.
- Worked on the database interface for the lab's subject information, which was built with Mojolicious, Bootstrap, and AngularJS.
- Wrote a working memory task for a study written in MATLAB.
- Also worked on numerous smaller projects involving such things as bash scripting and data visualization with the aid of R.

**Mathcounts Volunteer Coach** ..... Fall 2010-Spring 2014

## RELEVANT COURSEWORK

**Yale University** ..... Fall 2014-Spring 2018

*Data Structures and Programming Techniques (CPSC 223), Systems Programming & Computer Organization (CPSC 323), Design and Analysis of Algorithms (CPSC 365), Discrete Mathematics (MATH 244), Intro to Functional Analysis (MATH 525), Foundations of Algebraic Geometry (MATH 619), Quantum Mechanics I & II (PHYS 508 & 608)*

## AWARDS AND ACCOMPLISHMENTS

**Putnam Competition** ..... December 2014, 2015, 2016, 2017

*Highest ranking: Honorable Mention (Top 100 out of 4164 students)*

(412) 728-8774  
jason.sch@aya.yale.edu

**Jason Schuchardt**

*4000 Randall Avenue  
St. Louis Park, MN 55416*

---

**USA Mathematical Olympiad Qualifier (Score: 14)** ..... *Spring 2014*