

# ELI SHAYER

eshayer@stanford.edu | 907-575-8228 | elishayer.com

## STANFORD UNIVERSITY

9/2014 – 6/2018 (EXPECTED)

### Pursuing a B.A. in Mathematical and Computational Science and a Minor in History

**Grade Point Average** 3.81/4.00

**Coursework** Design and Analysis of Algorithms, Principles of Computer Systems, Computer Organization and Systems, Mathematical Foundations of Computing, Theory of Probability, Introduction to Stochastic Processes, Ordinary Differential Equations, Multivariable Calculus, Linear Algebra

## WEST ANCHORAGE HIGH SCHOOL

8/2010 – 5/2014

**Grade Point Average** 4.48/4.00 Weighted; 4.00/4.00 Unweighted

**SAT** 2340 (800 Critical Reading, 800 Math, 740 Writing); **SAT Subject Tests** Math Level II (800), Physics (800)

**AP Coursework** Calculus AB (5), Calculus BC (5), Statistics (5), Biology (5), Chemistry (5), Physics B (5), United States History (5), Government (5), Microeconomics (5), Macroeconomics (5), Psychology (5)

## WORK EXPERIENCE

### Northern Economics *Temporary Staff Analyst II*

5/2014 – 9/2014, 6/2015 – 9/2015

- Co-authored numerous reports, including a business plan for Suquamish Seafoods, the master plan for the Palmer Airport, multiple regulatory forecasting projects, and a report on halibut bycatch
- Performed extensive economic and demographic forecasting using Excel and STATA

### Research Science Institute *Harvard Vision Lab Researcher*

6/2013 – 8/2013

- Designed a cognitive science experiment and tested a dozen subjects at the Harvard Vision Lab
- Wrote a scientific paper and presented at the Research Science Institute Symposium

## PROJECTS

### Graphicacy Major League Data Challenge ([stanfordsportsanalytics.com/mlb-challenge](http://stanfordsportsanalytics.com/mlb-challenge))

11/2015

- Visualized top twenty baseball careers in d3.js, placed 2<sup>nd</sup> in the competition

### Baseball Pitch Tracker

5/2015 – Present

- Ongoing web app project for Stanford Varsity Baseball on the MEAN stack with Bootstrap and d3.js
- Designed to accept pitch-by-pitch input data and deliver insightful analytics about pitchers and hitters

## ACTIVITIES

### Stanford Sports Analytics Club

9/2014 – Present

- Technology Officer (6/2015 – Present), developed the club website ([stanfordsportsanalytics.com](http://stanfordsportsanalytics.com))
- “The Frictional Cost of a Call to the Bullpen,” wrote a Monte Carlo Markov model simulator in C++
- Competed in the SABR Analytics Conference Case Competition, modeling team results in R

### Code the Change

11/2015 – Present

- Group project building a photography copyright licensing website using a Flask server

### Stanford Democrats

9/2015 – Present

- Associate on the Newsletter Team

### Challah for Hunger

9/2015 – Present

- Dorm Distributor

### Stanford Club Ultimate Frisbee

9/2014 – Present

### Boy Scouts of America

12/2006 – 12/2013

- Earned the rank of Eagle Scout (2011) and served as Senior Patrol Leader (2011)
- Served on National Youth Leadership Training staff as Instructor (2010), Assistant Course Leader (2012), and Course Leader (2013), instructing 48 learners in leadership, communication, and accomplishing goals

## AWARDS

Stanford University Boothe Prize ([elishayer.com/docs/EliShayer.BoothePrize.pdf](http://elishayer.com/docs/EliShayer.BoothePrize.pdf))

2015

National AP Scholar, National Merit Scholar, Presidential Scholar Semifinalist

2014

American Mathematics Contest State Champion

2010, 2011, 2012, 2014

## SKILLS AND INTERESTS

**Web Development** jQuery, Node.js, Express, AngularJS, MongoDB, d3.js, Bootstrap, CSS, HTML, Jade

**Programming Languages** C++, C, Java, JavaScript, R, Python, VBA, STATA

**Interests** Skiing, Hiking, Camping, Web Development, Modeling, Data Visualization, Politics