

# Eli Shayer

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

## STANFORD UNIVERSITY

---

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

**Grade Point Average** 3.81/4.00

**Coursework** Algorithms, Principles of Computer Systems, Computer Organization and Systems, Mathematical Foundations of Computing, Theory of Probability, Introduction to Stochastic Processes, ODEs, Multivariable Calculus, Linear Algebra, Bioethics of New Technologies, American History, French

## WEST ANCHORAGE HIGH SCHOOL

---

**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)

**Coursework** AP courses in Calculus, Statistics, Biology, Chemistry, Physics, United States History, Government, Microeconomics, Macroeconomics, Psychology, and Literature

## WORK EXPERIENCE

---

**Northern Economics** *Temporary Staff Analyst II* Summer 2014, 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 several 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

- Group project visualizing the top 20 players in Major League Baseball history using the d3.js library
- Wrote all of the code for the visualization, which placed 2<sup>nd</sup> in the competition

**TruMedia Hackathon**, “The Next Pitch” ([elishayer.com/TruMedia-MLB-Hackathon](http://elishayer.com/TruMedia-MLB-Hackathon)) 1/2016

- Visualization of pitcher tendencies using the d3.js library with a frontend framework of AngularJS

## ACTIVITIES

---

**Stanford Sports Analytics Club** 9/2014 – Present

- Technology Officer (6/2014 – Present), developed the club website ([stanfordsportsanalytics.com](http://stanfordsportsanalytics.com))
- “A Fresh Take on Batting the Pitcher Eighth,” performing data analysis in Excel
- “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

**Stanford Club Ultimate Frisbee** 9/2014 – Present

**Stanford Democrats** 9/2015 – Present

- Associate on the Newsletter Team

**Challah for Hunger** 9/2015 – Present

- Dorm Distributor

**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, VBA, STATA

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