Education

**Yale University** New Haven, CT

Prospective B.S., Statistics & Data Science, Molecular Biophysics & Biochemistry (with honors) *Class of 2018*

MCAT: top <1%, YSEA Award for Outstanding Academic Achievement (top 9 STEM juniors by GPA)

**William P. Clements High School** Sugar Land, TX

GPA: 4.00, *magna cum laude* | Full score on the SAT, 14 AP Exams, and 4 SAT II Subject Tests *Class of 2014*

Research Experience

**Yale University | Computational Biology | Mark Gerstein Lab** May 2015 – Present

- Built a cellular atlas and NMF classifier for tissue deconvolution of exRNA samples. *2 years*

- Built a public analysis tool for visualizing exRNA datasets (*http://exrna-atlas.org/exat/precomputedJobs*).

- In preparation: (1) paper on exceRpt (an exRNA-seq analysis pipeline) and (2) paper on the exRNA Atlas.

**Harvard Medical School | Biomedical Informatics | Isaac Kohane Lab** Jun 2016 – Present

- Estimation of penetrance for incidental genetic findings across ancestral populations. *1 year*

- Developing *clinvaR*, an R package (code library) for gene-level analysis of variants.

- In preparation: “The predictive capacity of secondary genetic findings in six cardiac conditions” (1st author).

Posters & Presentations

- **Lightning Talk**: Hybrid Scholarship Symposium at Yale Apr 2017

- **Plenary Speaker**: Yale Undergraduate Research Conference Jan 2017

- **Presentation (Finalist)**: Science & Technology Awards for Research at Columbia Apr 2017

- **Concluding Presentation**: Harvard-MIT Summer Students Conference Aug 2016

- **Posters**: New England Science Symposium (Harvard, Mar 2017), Yale Day of Data (Dec 2016),

Columbia Undergraduate Research Symposium (Apr 2016)

Awards & Fellowships

- Yale Science & Engineering Association Award for Outstanding Academic Achievement, Junior Class Apr 2017

- 1st Place Team, *American Statistical Association* DataFest Competition at Wesleyan University ($200) Apr 2017

- Max and Reba E. Richter Fellowship for Independent Study and Research ($1,000) Summer 2017

- Harvard-MIT Health Sciences & Technology: Summer Institute ($8,000 over 2 years) Summers 2016-2017

- Yale College Freshman Summer Research Fellowship in the Sciences & Engineering ($4,300) Summer 2015

- 1st Place Overall, Bronze Am. Smooth & Int. Standard, Worcester Ballroom Dance Competition ($180) Jan 2016

- Schlumberger Founders Merit Scholarship: top 8 in the nation ($20,000 over 4 years) May 2014

Extracurricular

- Yale Ballroom Dance Team | *Team Captain, USA Dance Silver Competitor* Sep 2014 – Present

- Walden Peer Counseling | *Hotline and walk-in peer counseling | 250 hours* Aug 2015 – Present

- HAVEN Free Clinic | *Nutritional/Dietary Counselor | 81 hours* May 2015 – Present

- Organic Chemistry Peer Tutor | *Office hours twice a week for a class of over 200 | 105 hours*Aug 2015 – Present

Skills & Coursework

**Computational**:R (incl. Markdown, Shiny), Python, MATLAB, Java, UNIX, LaTeX, Git, MySQL.

**Coursework**: Multivariable Calculus, Linear Algebra, Probability and Statistics, Theory of Statistics, Biomedical Data Science, Computational Methods for Biological Data, Organic Chemistry, Biochemistry, Physical Chemistry, Physics.