James Diao

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Education

Yale University	New Haven, CT

Prospective B.S., Statistics & Data Science, Molecular Biophysics & Biochemistry (with honors) — *Class of 2018*
YSEA Academic Achievement Award (top 9 STEM juniors by GPA) | MCAT: top <1%

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 ($120)	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
- 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.