

JONATHAN DEATON

P.O. Box 11581, 531 Lasuen Mall · Stanford, CA 94309 · jdeaton@stanford.edu · (413) 531-1568

EDUCATION

9/12 – Present

Stanford University, Stanford CA – BSH in Bioengineering, conferred 6/17

- Completed pre-medical requirements
 - Cumulative GPA – 3.848 / 4.0, Departmental GPA – 3.973 / 4.0
 - Tau Beta Pi National Engineering Honors Society Member
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RELEVANT COURSEWORK

Engineering Mathematics
Computer Programming
Bioinformatics

Synthetic Biology
Molecular/Cellular Biology
Medical Devices

Chemistry
Physics
Electrical Engineering

COURSE PROJECTS

10/16 – Present

Heat Stroke Risk Monitor, Bioengineering Senior Capstone

- Lead team of three to design, build, and test a wearable heat stroke risk monitor
- Implement machine learning algorithms to predict user risk

1/16 – 4/16

Remote Access Fermentor, Biomedical System Prototyping Lab

- Designed, built and documented electromechanical fermentor with team of three
 - Implemented signal processing circuits, feedback control systems, and network accesses system
 - Utilized CAD to synthesize custom 3D printed parts
 - Presented at 2016 Tau Beta Pi Engineering Showcase at Stanford University
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EXPERIENCE

6/14 – Present

Bioengineering Lab Researcher, Quake Lab, Stanford University

- Design, perform, and analyze molecular biology experiments
- Create experimental devices, procedures, and computational tools (github.com/jondeaton/PhaMers)
- Analyze and present data with MATLAB and Python programming
- Apply machine learning to detect novel phage DNA sequences in honors thesis research

6/16 – 9/16

Research Associate Intern, Protein Engineering Group, Illumina Inc., San Diego, CA

- Experimented with optimizing protocols in human exome sequencing
- Automated next-generation sequencing data analysis with Python programming

11/15 – 6/16

Tutor, Peninsula Tutoring, San Francisco Bay Area, CA

- Enhanced high school students' education in math, science, and writing

9/12 – 4/16

Division I Varsity Athlete, Men's Gymnastics, Stanford University

- Balanced rigorous course load with 25+ hours of training per week
- Managed work while traveling across the country for competitions
- Performed well under high pressure situations
- 2013-15 First Team NCAA Academic All American
- 2014 Elite 89 Scholar Athlete

10/14 – 10/15

Clinical Volunteer, Stanford Hospital, H1 Clinic, Neurology

- Enhanced patient care through personal interaction

5/08 – 8/13

USA Junior National Team Member

- Competed internationally in England, China, and Colombia
- Trained intensively at elite level training camps

6/13

Gymnastics Camp Coach, Stanford Boy's Gymnastics Club, Stanford CA

- Coached novice and intermediate gymnasts
- Designed drills to develop fundamentals
- Led exercise through demonstration

6/09 – 9/10

Camp Counselor, Springfield Boy's and Girl's Club, Springfield MA,

- Taught underprivileged elementary school students in summer educational program
 - Led children through educational and extracurricular activities
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SKILLS

- UNIX/Linux, Python, MATLAB, Beginner C/C++, Beginner Java, Git, Illustrator, Excel, DNA Sequencing, Molecular Biology