

Yashas Manjunatha

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EDUCATION

Duke University, Durham, NC

Expected May 2020

Intended Bachelor of Science in Computer Science

Intended Bachelor of Science in Mathematics

Texas Academy of Mathematics and Science, Denton, TX

May 2016

Dual Enrollment Program at University of North Texas

- Cumulative GPA: 4.0/4.0
- Selected Courses: Financial Mathematics, Abstract Algebra, Real Analysis I, Differential Equations, Linear Algebra, and Applied Statistics

TECHNICAL SKILLS

Programming/Languages: C++; Java; Perl; Python; MySQL; HTML/CSS; LaTeX

Software: MATLAB; Oracle; MS Office Suite (Word, Excel, PowerPoint); GIMP

RESEARCH EXPERIENCE

DEPT. OF MATERIALS SCIENCE AND ENGINEERING, *University of North Texas*

Denton, TX

Research Assistant

April 2015 - May 2016

- Conducted a computational chemistry study on the crystal structure and mechanical, elastic & electronic properties of AlMgB_{14} with Density Functional Theory calculation
- Synthesized thick coatings of this material with a novel Laser Surface Alloying modification technique

DEPARTMENT OF PHYSICS, *University of North Texas*

Denton, TX

Research Assistant

October 2014 - March 2015

- Conducted a biophysics study on the optical properties of the chemiluminescent reaction between oxide-based probes and Nitric Oxide
- Using results from this study, developed an inexpensive and non-invasive pre-diagnostic tool (iOS Application) to test for the presence of cancer in saliva samples

SCHOOL OF BEHAVIORAL & BRAIN SCIENCES, *University of Texas at Dallas*

Dallas, TX

Research Assistant

June 2014 - September 2014

- Conducted a bioinformatics study to discover potential pain prevention gene targets
- Created an algorithm based on mRNA and protein expression values to determine the efficiency of gene-targeting drugs and to model side effects in various organisms

ACTIVITIES AND LEADERSHIP EXPERIENCE

DUKE UNIVERSITY CHRONICLE

Durham, NC

News Reporter

August 2016 - Present

- Report news stories for Duke's independent student newspaper
- Published articles covering university events

TAMS RESEARCH ORGANIZATION

Denton, TX

Competitions Director

August 2014 - May 2016

- Organized and prepared TAMS students for research-related competitions
- Created a Scientific Review Committee for TAMS research projects
- Recognized for Outstanding Servant Leadership

ASPIRE EXPOSITION AND MENTORSHIP VOLUNTEER PROGRAMS

Denton, TX

Competitions Director

August 2014 - May 2016

- Organized local outreach programs to inspire elementary & middle school students in STEM fields and research
- Organized the annual Aspire Science Fair and Aspire Field Day
- Awarded \$3000 grant from the Society for Science & the Public