

# Aris Paschalidis

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## Education

### Brown University

B.S. IN COMPUTATIONAL BIOLOGY, MAGNA CUM LAUDE, GPA 4.0

Providence, RI  
Sep. 2017 - May 2021

### Boston University

TOOK CLASSES WHILE IN HIGH SCHOOL, GPA 3.98

Boston, MA  
Sep. 2015 - May 2017

### Boston University Academy

HIGH SCHOOL, GRADUATED SUMMA CUM LAUDE, CLASS OF 2017

Boston, MA  
Sep. 2013 - May 2017

## Work Experience

### Brown University

BIOINFORMATICIAN

Providence, RI  
June. 2021 - present

- Working on algorithms to determine the number of malarial strains found in an individual. Developing computational tools for molecular inversion probe design, data processing, and analysis.

LAB MEMBER

Jan. 2020 - present

- Member of the Bailey Lab. Developing an algorithm to determine the number of malarial strains found in an individual, which is known as the Complexity Of Infection (COI).

### Massachusetts General Hospital (MGH)

Boston, MA

RESEARCH INTERN

May 2019 - September 2020

- Worked at the Orthopedic Trauma Department shadowing doctors and conducting research primarily with Dr. Heng. Focused on examining associations between mental health scores and physical function scores of patients who had recently undergone total knee or hip replacements.

SUMMER FELLOW

May 2019 - Dec. 2019

- Worked at the cardiovascular research center under the tutelage of Dr. Das, Dr. Varrias, and Dr. Rodosthenous. Worked on examining associations between micro RNA, long non coding RNA, and heart failure.

### Brown University

Providence, RI

RESEARCH INTERN

May 2018 - Jan. 2019

- Worked with Prof. Schmid at the Center for Evidence Based Synthesis on creating a package in R to analyze n-of-1 clinical trials.

### Massachusetts Institute of Technology

Cambridge, MA

RESEARCH INTERN

Jun. 2016 - Sep. 2016

- Internship at the MIT Operations Research Center. Worked with Dr. Bertsimas and Dr. Dunn on regression and classification problems using an approach which derives optimal decision trees by solving an integer optimization problem.

RESEARCH INTERN

Jun. 2015 - Sep. 2015

- Worked at the MIT Operations Research Center. Worked with Prof. Dimitris Bertsimas on a regression problem with an application to ophthalmology.

## Leadership & Community Outreach

### Captain, Ultimate Frisbee

Brown University

BROWN UNIVERSITY MEN'S ULTIMATE FRISBEE B TEAM

May 2020 - May 2021

- Program raised \$80,000+ for the Black Lives Matter movement

### Volunteer Firefighter & EMT

Scituate, RI

HOPE & JACKSON FIRE COMPANY

Sep. 2020 - present

- 500+ hours

## Select Honors & Awards

2021 **Magna Cum Laude**, Brown University

2021 **Honors**, Computational Biology, Brown University

2019 **Fellowship**, American Heart Association Undergraduate Student Summer Fellowship Award

## Select Publications

JOURNAL ARTICLES

### Patient-Reported Mental Health Score Influences Physical Function After Primary Total Knee Arthroplasty

MELNIC C. M., PASCHALIDIS A., KATAKAM A., ET AL.

*The Journal of Arthroplasty*. Apr. 2021

### Predictive Models of Mortality for Hospitalized Patients With COVID-19: Retrospective Cohort Study

WANG T., PASCHALIDIS A., LIU Q., ET AL.

*JMIR Medical Informatics*. Oct. 2020

CONFERENCE PROCEEDINGS

### Regression and Classification Using Optimal Decision Trees

BERTSIMAS D., DUNN J., AND PASCHALIDIS A.

*2017 IEEE MIT Undergraduate Research Technology Conference (URTC)*, Nov. 2017

POSTER PRESENTATIONS

### Effects of Mental Health on PROMIS Scores After Primary THA

PASCHALIDIS A., SALIMY M. S., ROBINSON M. G., ET AL.

Eastern Orthopedic Association Annual Meeting, Oct. 2022, Naples, Florida

### Complexity of Infection Estimation with Allele Frequencies

PASCHALIDIS A., WATSON O. J., VERITY R. J., AND BAILEY J. A.

American Society of Tropical Medicine and Hygiene Annual Meeting, Nov. 2021, Virtual

### Changes in Plasma Extracellular RNAs: Independent Associations with Left and Right Ventricular Reverse Remodeling

VARRIAS D., PASCHALIDIS A., MICHELHAUGH S., ET AL.

Cardiovascular Research Center Retreat 2019