Aris **Paschalidis**

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Education

Brown University — *Providence, RI*

B.S. in Computational Biology, Magna Cum Laude, GPA 4.0 — *Sep. 2017 - May 2021*

Boston University — *Boston, MA*

Took classes while in high school, GPA 3.98 — *Sep. 2015 - May 2017*

Boston University Academy — *Boston, MA*

High School, Graduated Summa Cum Laude, Class of 2017 — *Sep. 2013 - May 2017*

Work Experience

Brown University — *Providence, RI*

Bioinformatician — *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*

Volunteer Firefighter & EMT — *Scituate, RI*

Hope & Jackson Fire Company — *Sep. 2020 - Nov. 2021*

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