

Aris Paschalidis

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Education

University of Massachusetts Chan Medical School

M.D. CANDIDATE

Worcester, MA

Aug. 2022 - Present

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

Research Experience

Brown University

BIOINFORMATICIAN

Providence, RI

Jun. 2021 - Aug. 2022

• Developed algorithms to determine the number of malarial strains found in an individual. Developed computational tools for molecular inverse design, data processing, and analysis.

Jan. 2020 - Aug. 2022

• Member of the Bailey Lab. Developed an algorithm to determine the number of malarial strains found in an individual, known as the Complexity Measure.

Boston, MA

RESEARCH INTERN

May 2019 - Sep. 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.

May 2019 - Sep. 2020

• Worked at the cardiovascular research center under the direction of Dr. Das, Dr. Varrias, and Dr. Rodosthenous. Examined associations between mental health and healthcare outcomes.

Providence, RI

RESEARCH INTERN

May 2018 - Jan. 2019

Massachusetts General Hospital (MGH)

RESEARCH INTERN

• Worked with Dr. Bertsimas on the Evidence Based Synthesis on creating a package in R to analyze n-of-1 clinical trials.

Cambridge, MA

Jun. 2016 - Sep. 2016

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

Jun. 2015 - Sep. 2015

• Intern at the MIT Operations Research Center. Worked with Dr. Dimitris Bertsimas on a regression problem with an application to ophthalmology.

Leadership & Community Outreach

Interest Group Leader

ORTHOPEDIC SURGERY INTEREST GROUP

UMass Chan Medical School

April 2023 - Present

Volunteer Firefighter & EMT

HOPE & JACKSON FIRE COMPANY

Scituate, RI

Sep. 2020 - Nov. 2021

Selected Honors & Awards

2024 **Scholarship**, New England Hellenic Medical and Dental Society

2024 **Honorable Mention**, Massachusetts Medical Society Research Poster Symposium

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

Selected Publications

Pre-Matriculation Experiences Minimally Impact the Specialty Interests of First-Year Medical Students

PASCHALIDIS A., MCANENA A. P., MCCLENNEN T., SHEPARD R. T., GALA R.

Massachusetts Medical Society; March 22, 2024; Waltham, Massachusetts.

Patients Consistently Report Worse Outcomes Following Revision Total Knee Arthroplasty Compared to Primary Total Knee Arthroplasty

SALIMY M. S., PASCHALIDIS A., DUNAHOE J. A., CHEN A. F., ALPAUGH K., BEDAIR H. S., MELNIC C. M.

The Journal of Arthroplasty. 2024;39(2):459–465.e1. doi: 10.1016/j.arth.2023.08.014.

coiaf: Directly Estimating Complexity of Infection with Allele Frequencies

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

PLOS Computational Biology. 2023;19(6):e1010247. doi: 10.1371/journal.pcbi.1010247.

The Not-So-Distant Future or Just Hype? Utilizing Machine Learning to Predict 30-Day Post-Operative Complications in Laparoscopic Colectomy Patients

VELMAHOS C. S., PASCHALIDIS A., PARANJAPPE C. N.

The American Surgeon™. 2023;89(12):5648–5654. doi: 10.1177/00031348231167397.

Effects of Mental Health on PROMIS Scores After Primary THA

PASCHALIDIS A., SALIMY M. S., ROBINSON M. G., CHEN A. F., MELNIC C. M., O'BRIEN T. M., BEDAIR H. S., HENG M.

Eastern Orthopedic Association Annual Meeting; October 26, 2022; Naples, Florida.

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

WANG T., PASCHALIDIS A., LIU Q., LIU Y., YUAN Y., PASCHALIDIS I. C.

JMIR Medical Informatics. 2020;8(10):e21788. doi: 10.2196/21788.

Regression and Classification Using Optimal Decision Trees

BERTSIMAS D., DUNN J., PASCHALIDIS A.

2017 IEEE MIT Undergraduate Research Technology Conference (URTC). 2017:1–4. doi: 10.1109/urtc.2017.8284195.