Aris Paschalidis

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University of Massachusetts Chan Medical School

M.D. CANDIDATE

Aug. 2022 - Present

Worcester, MA

Providence, RI

Sep. 2015 - May 2017

Brown University

B.S. IN COMPUTATIONAL BIOLOGY, MAGNA CUM LAUDE, GPA 4.0 Sep. 2017 - May 2021

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Boston University

Boston, MA

Took classes while in high school, GPA 3.98 **Research Experience**

Brown University Providence, RI

BIOINFORMATICIAN Jun. 2021 - Aug. 2022

- Developed algorithms to determine the number of malarial strains found in an individual. Developed computational tools for molecular inver-LABI OF LABING design, data processing, and analysis.

 Jan. 2020 - Aug. 2022

RESEARCH INTERN May 2019 - Sep. 2020

- Worked at the Orthopedic Trauma Department, shadowing doctors and conducting research primarily with Dr. Heng. Focused on examining Suassactia filters who had recently undergone total knee or May Replacements.

RESEARCH INTERN May 2018 - Jan. 2019

Massachusetts Institute of Technology Evidence Based Synthesis on creating a package in R to analyze n-of-1 clinical trials. Cambridge, MA
RESEARCH INTERN

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 RESPARCHOINTERN derives optimal decision trees by solving an integer optimization problem.

Jun. 2015 - Sep. 2015

Leader ship & Community Outreach Center Worked with Dr. Dimitris Bertsimas on a regression problem with an application to ophthalmology.

Interest Group Leader UMass Chan Medical School

ORTHOPEDIC SURGERY INTEREST GROUP

April 2023 - Present

 Volunteer Firefighter & EMT
 Scituate, RI

 HOPE & JACKSON FIRE COMPANY
 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

 ${\sf PASCHALIDIS\,A.,Watson\,O.\,J.,Aydemir\,O.,Verity\,R.,Bailey\,J.\,A.}$

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., PARANJAPE 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.