

Jack Jordanides

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Education

Boston University, Boston, MA

09/17 - 05/21

Bachelor of Science in Biomedical Engineering, GPA: 3.92/4.00

Research Experience

Research Assistant, Boston University, Department of Chemistry

02/18 - 05/21

- Research for independent project analyzing conformational change of NF- κ B essential modulator protein (NEMO) with luminescence resonance energy transfer (LRET)
- Expressed, purified, and chemically modified NEMO and ubiquitin with lanthanide-binding tags
- Generated sequence similarity network for NEMO to better understand its sequence-function relationship

Research Assistant, Massachusetts General Hospital, Orthopedic Bioengineering Lab

06/20 - 08/20

- Analyzed electronic health records and compiled datasets regarding outcomes from total joint arthroplasties (TJA)

Posters & Presentations

Boston University Undergraduate Research Colloquium, Boston, MA. "Using a Lanthanide Binding Tag to Assess Conformational Changes in NF- κ B Essential Modulator Protein (NEMO)," October 2019. [*Presentation*]

Posters for Orthopedic Research Society 2021 Annual Meeting

02/21

V. Tirumala, C. Klemt, L. Xiong, I. Yeo, P. Walker, **J. Jordanides**, V. Solitto, A. Tahil, and Y.M. Kwon. The Same Day Discharges Following Primary Total Joint Arthroplasty: A Single Surgeon, Propensity-score-matched Cohort Analysis.

V. Tirumala, C. Klemt, L. Xiong, I. Yeo, P. Walker, **J. Jordanides**, V. Solitto, A. Tahil, and Y.M. Kwon. Machine Learning Model For The Prediction Of Recurrent Infection Following Revision Total Joint Arthroplasty For Periprosthetic Joint Infection.

V. Tirumala, C. Klemt, L. Xiong, I. Yeo, P. Walker, **J. Jordanides**, V. Solitto, A. Tahil, and Y.M. Kwon. Machine Learning Model For The Prediction Of Discharge Disposition After Revision Total Joint Arthroplasty.

L. Xiong, V. Tirumala, C. Klemt, I. Yeo, P. Walker, W. Cohen-Levy, **J. Jordanides**, V. Solitto, A. Tahil, and Y.M. Kwon. Machine Learning Model For The Prediction Of Prolonged Length Of Stay After Revision Total Joint Arthroplasty.

Selected Projects

Mechanical Loading Bioreactor, Senior Design Project for Connizzo Lab

- Designed and constructed a control system to apply and measure loads on mouse flexor tendon explants for biomechanical studies in confocal microscope
- Created program in LabVIEW to control stepper motor and measure tendon loading

Gaming Eye Technology

- Built gaming device that allows users to control a racing game with their eyes using electrooculography (EOG)

Leadership & Activities

Vice President, Kidney Disease Screening and Awareness Program (KDSAP), BU Chapter

Fundraising Chair, Engineers Without Borders (EWB) BU Chapter

Honors & Awards

Trustee Scholar, Boston University

2017-2021

- Full tuition merit scholarship granted to 20 students annually

Kilachand Honors College, Boston University

2017-2021

Dean's List, Boston University College of Engineering

All Semesters

Undergraduate Research Opportunities Program Student Research Award

2019-2021

Skills

Laboratory: Brightfield/darkfield microscopy, PCR, gel electrophoresis, bacterial cell culture/protein overexpression, FPLC

(SEC and affinity chromatography), protein analysis (circular dichroism, dynamic light scattering, fluorescence anisotropy binding assay, spectroscopy, western blot, LRET), data interpretation from IR/NMR/GC/MS, AuNP preparation
Computer: MATLAB (machine learning and image analysis), LabVIEW, GRANTA EduPack, Cytoscape, Python