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Ph.D. Student in Bioengineering, admitted Autumn 2020

Publications

PUBLICATIONS

- **Piecewise Multivariate Linearity Between Kinematic Features and Cumulative Strain Damage Measure (CSDM) Across Different Types of Head Impacts.** *Annals of biomedical engineering*

- **Physics-Informed Machine Learning Improves Detection of Head Impacts.** *Annals of biomedical engineering*

- **Salivary S100 calcium-binding protein beta (S100B) and neurofilament light (NFL) after acute exposure to repeated head impacts in collegiate water polo players.** *Scientific reports*

- **Identifying Factors Associated with Head Impact Kinematics and Brain Strain in High School American Football via Instrumented Mouthguards.** *Annals of biomedical engineering*

- **Predictive Factors of Kinematics in Traumatic Brain Injury from Head Impacts Based on Statistical Interpretation.** *Annals of biomedical engineering*

- **Time Window of Head Impact Kinematics Measurement for Calculation of Brain Strain and Strain Rate in American Football.** *Annals of biomedical engineering*

- **Head impact exposure and concussion in women's collegiate club lacrosse** *RESEARCH IN SPORTS MEDICINE*

- **A new open-access platform for measuring and sharing mTBI data.** *Scientific reports*

- **Patterns of head impact exposure in men's and women's collegiate club water polo** *JOURNAL OF SCIENCE AND MEDICINE IN SPORT*
• Effects of soccer ball inflation pressure and velocity on peak linear and rotational accelerations of ball-to-head impacts. *SPORTS ENGINEERING*
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• A Dose Relationship Between Brain Functional Connectivity and Cumulative Head Impact Exposure in Collegiate Water Polo Players. *FRONTIERS IN NEUROLOGY*
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• Head impacts sustained by male collegiate water polo athletes. *PLOS ONE*
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  Cecchi, N. J., Oros, T. J., Monroe, D. C., Fote, G. M., Moscoso, W. X., Hicks, J. W., Reinkensmeyer, D. J.
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