





JASON HASHIMOTO

BIOMECHANIST

CONTACT

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SKILLS

Motion Capture

- Motion Analysis (Cortex)
- Qualysis (QTM)
- OptiTrack (Motive)
- Kinatrax
- Theia Markerless
- Hawkeye

Sports Technology

- VALD (ForceDecks/NordBord)
- Hawkin Dynamics Force Plates
- IMU Wearables (VX Sport/Catapult)
- AMTI Force Plates

Computer Programs

- Visual3D
- Microsoft Office Software

EDUCATION

M.S. Kinesiology, Biomechanics

Point Loma Nazarene University

2022 - 2023

Grade: 4.0

- Thesis: ENERGY FLOW AND GROUND REACTION FORCE PREDICTORS OF BAT SWING SPEED DURING PITCHED BALL BATTING IN PROFESSIONAL BASEBALL PLAYERS

B.S. Kinesiology and Exercise Science

Oregon State University

2018 - 2021

Grade: 3.7

- Option in Pre-Therapy and Allied Health (PTAH)
- OSU Honor Roll, Cum Laude.

PROFILE

A highly experienced sports professional with a background in sports performance and biomechanics. Skilled in running motion capture across multiple applications, both marked and markerless. Have a wealth of experience in player development and data engineering across professional and collegiate settings. A proven record of delivering insights and reports to drive athlete performance. Strong leadership, communication, and coding skills, with commitment to constant improvement and success.

WORK EXPERIENCE

Applied Biomechanist

Chicago White Sox 2023 - Present

- Delivers biomechanical assessments focused on player performance and injury risk to all stakeholders (Sports Performance, Player Development, Medical, etc).
- Revamped the biomechanics pipeline to improve the delivery of information to the athlete + coaches, integrating all performance science data.
- Improved the data pipeline from the HawkEye system at the major + minor league levels, allowing for a continuous stream of data throughout the organization.

Intern, Sports Science I

Driveline Baseball Enterprises, Inc

2023 Summer

- Operated motion capture laboratory (Launchpad) to facilitate all biomechanics insights for trainers and players.
- Developed biomechanics insights by auditing or writing code to improve/build upon internal dashboards and pipelines.
- Worked on the research and development team to continuously improve training outcomes for Driveline athletes.

Senior Baseball Biomechanics Researcher

Point Loma Nazarene University

2022 - 2023

- Lead research on baseball biomechanics using an AMTI force-plate embedded mound, with a marked and markerless setup with Qualysis Arqus and Miquis cameras.
- Created biomechanics feedback reports for players and coaches, processed data using QTM, Visual3D, and Theia.
- Responsible for lab equipment maintenance and setup for the mobile lab, as well as training other graduate students.

Biomechanics Graduate/Teaching Assistant

Point Loma Nazarene University


2022 - 2023

- Setup and maintain the Biomechanics Lab in the Rohr Science building and Balboa Performance Center, utilizing 8 Kestrel cameras, 2 AMTI force plates, and Delsys wireless EMG sensors.
- Clean and export capture files in Cortex to Visual3D, creating pipelines for report generation over wide variety of different exercises.
- Assists Dr. Aguinaldo in teaching undergraduate biomechanics lecture and lab.

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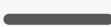
BIOMECHANIST

CODING LANGUAGES

Python 

R 

HTML 

CSS 

JavaScript 

SQL 


CONFERENCE ABSTRACTS


- Hashimoto, Jason; La Salle, D. Taylor; Takata, Avery; Aguinaldo, Arnel; and Wasserberger, Kyle (2023) "ENERGY FLOW AND GROUND REACTION FORCE PREDICTORS OF BAT SWING SPEED DURING PITCHED BALL BATTING IN PROFESSIONAL BASEBALL PLAYERS," ISBS Proceedings Archive: TBD
- D Taylor La Salle, Jason Hashimoto, Baxter Halligan, Arnel Aguinaldo, and Kyle W Wasserberger. "Relationship between Athlete Performance Metrics and Pelvis Energy Flow in Adult Baseball Pitchers". In: American College of Sports Medicine Annual Conference. 2023

REFERENCES

Dr. Arnel Aguinaldo

Associate Professor at PLNU


 (619) 849-0184

 arnelaguinaldo@pointloma.edu

Brad Brown

Director of Baseball Analytics (Oregon State)

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 brad.brown@oregonstate.edu

WORK EXPERIENCE CONT.

Player Development Intern

Boston Red Sox

2022 Season

- Setup all fields, bullpens, and batting cages with various different technology at the Red Sox's spring training complex.
- Operated Kinatrax, Trackman and video software(s) during all Florida Complex League (FCL) home games, and traveled to setup video for FCL away games.
- Used the Kinatrax lab equipped with 16 cameras and AMTI force plates for hitting and pitching collection to aid our player development process and build out the organizations internal Kinatrax database.

Biomechanics Intern

Oregon State Baseball - DAM Analytics Squad

2020 - 2021

- Working with our analytics team, I collected and organized data from a variety of different programs, including Rapsodo, Blast Motion, OptiTrack, K-Motion, Synergy, Edgertronic, TeamBuildr and Trackman.
- Using K-Motion (K-Vest), I analyzed and collected data on each player's kinematic sequence in their swing, and build out a database for our coaches to use and make swing adjustments with.
- Using data collected from jump mats and dynamometers, I monitored strength + power outputs over the course of the season to aid player performance and player health, collaborating this information with S&C and the AT.

Lead Data Analyst

Corvallis Knights Baseball Club

2021 Summer

- Compile opponent scouting reports using Synergy data to provide useful information on tendencies for opponent hitters and pitchers. Also used Synergy data to make scouting reports on our team as well.
- Using Driveline's TRAQ software, I imported trackman CSVs to generate reports on our athletes swing/pitching profiles to aid in the athlete's development during their time with the Knights.
- I operated Trackman during each home game, and setup Synergy video cameras before the game. I would then export both the Trackman CSV's and video to Synergy for scouting purposes.

VOLUNTEER EXPERIENCE

Adapted Physical Activity for Children with Disabilities

IMPACT

2018 - 2020

- Teaching children with disabilities physical activity skills, and also work on developing skills that the children can use in daily life, whether at home, in the classroom, or in a work setting.

COURSES/CERTIFICATIONS

Courses:

- Practical Deep Learning for Coders - Fast.ai
- Linux Mastery: Master the Linux Command Line in 11.5 Hours - Udemy

Certifications:

- Driveline Foundations of Hitting, Pitching, and Pitch Design Certifications
- K-Motion Baseball Certification, Blast Motion Certification