

# Sean Floersch

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## Education

<b>B.S. in Statistics, B.A in Spanish (2023)</b> University of Wisconsin-La Crosse, La Crosse, WI <b>Cumulative GPA:</b> 3.97 <b>Statistics GPA:</b> 4.00; <b>Spanish GPA:</b> 3.95	<b>General Diploma (2020)</b> Burnsville High School, Burnsville, MN Valedictorian <b>Cumulative GPA:</b> 4.00
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## Skills

<b>Statistical and Machine Learning Methods</b>	Knowledge of experimental design, categorical and quantitative data analysis, and mathematical background and application of distributions. Variety of machine learning techniques, including trees, regression, and ensembles.
<b>Programming</b>	2+ years of extensive R experience; moderate experience in Python and Java; proficient in Microsoft Word, Excel, and Teams
<b>Spanish</b>	ACTFL bilingual proficiency test at 8 out of 9 (advanced speaker and writer)
<b>Skillset Summary:</b>	<a href="https://seanfloersch.shinyapps.io/flostrengthapp/">https://seanfloersch.shinyapps.io/flostrengthapp/</a> is a web-application that provides a deep overview of my skillset, including machine learning models, data manipulation, creative metric creation, and advanced coding.

## Undergraduate Research Experience

<b>Bange/Wine Mathematics and Statistics Undergraduate Research Endowment</b> (Fall 2022-Spring 2023)	Survey of statistical and machine learning techniques to predict game outcome and player performance in MLB, NFL, and NBA using personally created metrics. Used R and Sci-kit on Python. Techniques include regression, support vectors, and trees.
<b>Dean's Distinguished Fellowship</b> (Summer 2021)	Worked with Dr. Andrew Jagim of the Mayo Clinic and Dr. Chad Vidden of UW-La Crosse. Analyzed internal and external physical loads from wearable device data. Wrote paper analyzing seasonal and positional trends in Women's Soccer.
<b>Eagle Apprenticeship</b> (Fall 2020-Spring 2021)	2-year faculty mentorship under Dr. Chad Vidden. Learned and used R and Python. Took online Sports Analytics class from the U of Michigan. Analyzed baseball trends for the last 100 years.

## Publications and Presentations

<b>Paper:</b> Floersch, Sean. "Why the 2020 Dodgers Are the Greatest Team of All Time, at Least Statistically." <i>UWL Journal of Undergraduate Research</i> , XXIV, 2021. Analyzed, compared, and ranked teams from the last 100 years through various self-created metrics.
<b>Presentation:</b> Presented "Data-driven Optimization for Division III Women's Soccer" at UW-La Crosse Undergraduate Research Symposium in August of 2021. Presented primary findings in seasonal and positional physical load differences in Women's Soccer.
<b>Paper (Draft):</b> Sean Floersch, Chad Vidden, Andrew T. Askow, Margaret T. Jones, Jen Fields, Jason Murphy, and Andrew R. Jagim. "Seasonal changes in match demands and workload distribution in collegiate soccer following disruption from COVID-19." <i>Sent to editor of Sports medical journal in December 2022</i> . Analysis over 2 seasons in collegiate women's soccer for acute and chronic workload and positional differences

## Who I Am

<b>Interests</b>	Baseball, soccer, basketball, disc golf, Spanish, statistics, cancer research
<b>Clifton Assessment Strengths</b>	Empathy, communication, strategic, responsibility, individualization