# CHUNXU WANG

+ (1) 8148268700 | ckw5354@psu.edu | 124 Stamford, State College, PA


## EDUCATION

**The Pennsylvania State University** *Expected July. 2023 | State College, PA*

***Bachelor of Science, Major in Statistics and Computer Science (dual-major)***

- ✧ Major GPA: 3.7/4.0 (Statistics), 3.5/4.0 (Computer Science)
- ✧ Related Courses: Mathematical Statistics, Computational Statistics, Programming & Computing I&II, Probability Theory, Discrete Mathematics, Systems Programming, Applied Regression Analysis, Stochastic Modeling, Database Management, Time Series, Statistical Data Science, etc.

## PUBLICATION

**The Impact of Negative Platform News on User Behavior | *Secondary-author*** *Dec. 2021 | State College, PA*

- ✧ Study shows that negative news report not only has effect on company's business strategies, but also on its user behaviors
- ✧ Data (100k+) sourced from Bilibili, where Difference-in-Differences measure and Rubin Causal Model were used to quantify user behavior, which was then imported into Hypothesis Testing on user metrics between control and treatment group
- ✧ Suggestions to state-run news agency: pay more attention to the impact of negative news on customer-facing industries
- ✧ Paper published as: He, Wang, Xu, & Fan. (n.d.). *The Impact of Negative Platform News on Users Behavior.* International Conference on Machine Learning, Big Data and Business Intelligence.

## RESEARCH EXPERIENCE

**Sentimental Analysis in Social Media (Twitter) | *Research Assistant, supervised Prof. Siyuan Liu***

*Sept. 2021 - June. 2022 | State College, PA*

- ✧ Collected Twitter posts in the United States about the COVID-19, using Twitter API and web scrapper
- ✧ Conducted sentimental analysis on the Twitter posts, aiming to find the sentimental trend of US public during pandemic
- ✧ Used Dynamic Sentiment Analysis method to analyze sentiment in a temporal way over time, resulting in better performance

**Football Scoring & Teaching using Machine Learning | *Researcher*** *Sept. 2022 - Dec. 2022 | The University of Hong Kong*

- ✧ Researched on modern information technology to create a modern education information environment, on infiltrating and applying collected information to football teaching, promoting the development of student's teaching innovation
- ✧ Initial results showed that applying machine learning techniques to teaching has a far-reaching significance for football players' post-match scoring, in both motivation level and grade evaluation
- ✧ Submitted the research paper to the journal of *IEEE Transactions on Learning Technologies* (under review)

## WORK EXPERIENCE

**Shandong Taishan Football Club | *Assistant Data Analyst*** *Apr. 2021 - Aug. 2021 | Jinan, China*

- ✧ Collected and analyzed basic data about Shandong Taishan Team and opponents, such as goals scored and conceded; the report can be used to adjust training sessions to strengthen the team's weaknesses and exploit those of opponents
- ✧ Used Reinforcement Learning techniques like Q-learning to analyze the situations during a match where players have multiple options, such as passing, shooting, and dribbling; trained models to provide the best possible winning strategies

## PROJECT EXPERIENCE

**Data Analysis of Soccer Players in FIFA | *STAT 440*** *May. 2022 | State College, PA*

- ✧ Studied attributes correlation among Overall Rating, Potential Rating, Value, and Wage by using Pearson and Spearman
- ✧ Leveraged polynomial regression analysis for relationship exploration, mainly between Overall Rating and Wage
- ✧ Developed a prediction model using 'method of least squares' on Overall Rating for individual players in FIFA 2022

## RELEVANT SKILLS

**Language:** English (fluent), Chinese (native)

**Technical Skills**: Proficient in Python, Java, C languages; Skilled in R, SAS and MATLAB software