

ELENA KOUNG

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EDUCATION

The University of Texas at Austin **Bachelor of Science and Art, Mathematics Honors** May 2022
Minor: Applied Statistical Modelling
Overall GPA: 3.7

Relevant Coursework: Applied Statistics, Mathematical Statistics, Statistical Learning, Computational Biology, Real Analysis, Elements of Computer Science, Honors Discrete Math, Linear Algebra, Number Theory, Probability

OBJECTIVE

I have a mathematical background coupled with Python, R, and statistical analysis tools for data science and data analysis applications. I am seeking an opportunity to connect with my passion: the gaming community. I have excellent analytical and communication skills and excited to learn and apply new techniques in a business setting.

EXPERIENCE

Undergraduate Researcher at University of Texas at Austin and Los Alamos National Laboratory Spring 2020

- Modelled nuclear fuel production using Python, ExtendSim, Scale/ORIGEN, and MCNP-6 with data science approach
- Optimized alternative configurations of the fuel pin fabrication process through Python Kriging models
- Evaluated various machine learning models to determine best fit model for the radiation data
- Created Python scripts for scraping data for data analysis and parameterizing model inputs
- Developed surrogate computer models in Python to quantify radiation doses
- Conducted data analysis and found the maximum optimal energy output for least cost per worker

ACADEMIC PROJECTS

Polymathic Honors Scholar Thesis: Asian American Food, Culture, and Identity Spring 2021-Spring 2022

- Topics: Asian American Studies, Applied Statistics, Statistical Modelling/Statistical Learning, Culture and Food, Racialized Food
- Created R scripts to gather data and conduct data analysis to find trends in Asian American food over time
- Considered different statistical approaches to quantify culture and identity

LEADERSHIP EXPERIENCE AND ACTIVITIES

Community Manager – League of Legends Game Ambassador Fall 2020-Spring 2021

- Diversified and reformed the community to be inclusive to people of all backgrounds
- Planned, organized, and advertised a formal tournament of 100 players
- Collaborated with various teams to encourage participation in community activities
- Interacted with various schools and gaming communities to coordinate events and gather information

HONORS

- CNS University Honors, Polymathic Scholars
- Scientific Abstract Published under The American Association for the Advancement of Science (2017)
- GENIUS Olympiad Silver Medal (2017)
- Texas Junior Academy of Science, First and Grand prize winner (2017)
- Texas Youth Art Month State Capital Exhibit (2017)

ADDITIONAL INFORMATION

Computer Skills: Python, R, MS Excel, Word, PowerPoint, MatLab,

Languages: Conversational Chinese (Mandarin)

Interests: Data Analytics, Data Science, Machine Learning, Food, Gaming, League of Legends, Casual Painting, Interior Design