

Sean Fang

seanfang08@gmail.com
+1(850)844 – 3310

Education	<i>The International Baccalaureate (IB) Diploma Programme, Pensacola High School, Pensacola, FL, USA Weighted GPA 5.03 / Unweighted GPA 3.98 SAT 1550 ATC 36</i>	<i>2022–Present</i>
Honors	<ul style="list-style-type: none">• MathCounts Competition, first place (Northwest Florida region), <i>2021, 2022</i>• American Math Competition (AMC) 10, first place <i>2022, 2023</i>• American Math Competition (AMC) 12, first place <i>2024</i>• AIME qualifier <i>2024</i>• Commissioner’s Academic Challenge Team <i>2024-2025</i>• Florida Sunshine Scholar <i>2025</i>• Semifinalists, National Merit® Scholarship Program <i>2025</i>	
Skills	<p>Music Instruments</p> <ul style="list-style-type: none">• Piano (10 years of training and performance experience)• Violin (8 years of training and ensemble participation) Violin supervisor: Dr. Leonid Yanovskiy, University of West Florida.• Performed in recitals, ensemble groups, and chamber music, demonstrating teamwork and stage presence. <p>Computer Skills: Python (scikit-learn, numpy, etc.), R, Matlab, LaTeX.</p>	
Publications	<p>[1] B. OLUYEDE, L. SCHRÖDER, S. Fang, A. COHEN, T. MOAKOFI, Y. ZHANG, AND S. PU, <i>Advancing Reliability and Medical Data Analysis Through Novel Statistical Distribution Exploration</i>, <i>Mathematica Slovaca</i>, 75 (2025), pp. 225–242.</p> <p>[2] C. F. S. Fang AND S. PU, <i>The Kumaraswamy Exponentiated Odds Ratio Family: Mathematical Insights and Practical Applications</i>, In press.</p>	
National Presentations	<p>Contributed Talk: <i>Data-driven Analysis of Chemical Short-range Order-Property Correlations in Multi-principal Element Alloys</i>, Joint Mathematics Meetings, Seattle, WA, January 9, 2025.</p> <p>Poster Presentation: <i>The Kumaraswamy Exponentiated Odds Ratio Family: Mathematical Insights and Practical Applications</i>, Mathematics Association of America MathFest, Sacramento, CA, August 9, 2025.</p>	

Activities

Academic Team

2022–Present

- A trivia focused club which competes in the National Academic Quizbowl Tournament, requiring a variety of knowledge in math, science, history, literature, etc.
- Meets once a week during the school year.

Science Olympiad

2022–Present

- A club which competes in Science Olympiad, a competition involving a variety of STEM subjects in both knowledge and build events.
- Meets once a week during the school year.

Mu Alpha Theta

2024–Present

- Math focused club which participates in AMC(American Math Competitions) 10 and 12. Hosted the Pi competition in Pensacola High School.
- Meets once a week during the school year.

STEM Club

2024–Present

- Club based around the STEM field, such as promoting it to others or assisting people in STEM related subjects. Also hosts events related to STEM.
- Meets every other week during the school year.

CSDA Lab at the University of West Florida (UWF)

2024–Present

- Computational Statistics and Data Analytics (CSDA) Lab at UWF, working on research projects in data science, statistical process monitoring, computational neuroscience, probability distributions, applied machine learning, and AI. Supervisor: Dr. Shusen Pu.
- Meets twice a week during the summer and once a week during the regular school time.
- Research focus on the statistical data analysis, statistical distributions, and machine learning applications.

Summer School Programs at UWF

2024-2025

- STA 4031 Math/Stat I, UWF, A (Summer 2024).
- MAP 2023 Differential Equations, UWF, A (Summer 2025).
- MAS 3105 Linear Algebra, UWF, A (Summer 2025).

Violin Solo performance at UWF

- *Solo performance, UWF, November 2022.*
- *Solo performance, UWF, May 2023.*

Swim Team at GPACK

- *USA swimming member, Swim Team at The Greater Pensacola Aquatic Club,(2018-2023).*