

Alex Albors Juez

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Education

University of Washington <i>B.S. Mathematics, B.S. Applied Mathematics: Data Science</i>	September 2021 – June 2025 <i>Seattle, Washington</i>
La Salle Bonanova High School <i>IB Diploma, Spanish Baccalaureate Diploma</i>	September 2019 – June 2021 <i>Barcelona, Spain</i>

Research Experience

Undergraduate Research Intern <i>Department of Applied Mathematics, UW</i>	May, 2023 – Present <i>Seattle, Washington</i>
<ul style="list-style-type: none">• Analysis of Markov Chain Monte Carlo algorithms under Prof. Bamdad Hosseini• Implementing dimension-robust algorithms for Bayesian inverse problems (pCN, RCAR)	
Undergraduate Fluid Dynamics Researcher <i>DiBen Labs - Department of Mechanical Engineering, UW</i>	January, 2023 – September, 2023 <i>Seattle, Washington</i>
<ul style="list-style-type: none">• Classification of particle trajectories under Prof. Michelle DiBenedetto• Implementing triangulation methods using Matlab and the OpenCV library	

Other Experience

The Husky Math Club Research Officer <i>University of Washington</i>	January 2023-Present <i>Seattle, Washington</i>
<ul style="list-style-type: none">• Help coordinate social events and club competitions• Organize Husky Math Talks	
Mathematics of Data Science <i>Washington Directed Reading Program</i>	August 2023 – Present <i>Seattle, Washington</i>
<ul style="list-style-type: none">• Study concentration of random variables in high dimensions• Study statistical inference and machine learning	
Teacher Assistant for Fundamentals of Computer Science <i>Bellevue College</i>	November 2022 – January 2023 <i>Seattle, Washington</i>
<ul style="list-style-type: none">• Help teach fundamentals of data structures to a class of 35 students• Answer questions and hold exam reviews	

Awards & Honors

Outstanding Student Award <i>Honors Accelerated Calculus (Proof-based)</i>	2022
Dean's list <i>Departmental GPA: 3.98</i>	2021, 2022, 2023
High School Valedictorian <i>La Salle Bonanova, Barcelona, Spain</i>	2021

Specialized Skills

Programming Languages: Java, Python, Matlab, C++

Course Projects and Presentations: Log-Concave Polynomials for MCMC, Stochastic SEIR Modelling: ([GitHub](#))

Relevant coursework: Graph theory, Topology, Markov Chain and Monte Carlo methods

Graduate Coursework: Statistical Learning, Deep Learning, Algorithms, Functional Analysis

Other Interests

Languages: Spanish, Catalan (Native) English (Proficient), French (Intermediate), Portuguese (Beginner)

Hobbies: Classical Piano, Chess

Clubs: UW French Club, The Husky Math Club