
Personal Statement

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Teaching!

I have always been fascinated by the art of teaching and the significance of understanding a student's unique learning style. Conveying intricate topics such as advanced mathematics requires special skills and dedication. My interest in advanced mathematics grew during my last year in high school as I self-explored the subject. I stumbled upon some professors' websites and found their typesetted lecture notes to be helpful. Unlike many math textbooks, which can be intimidating for beginners, these notes offered a clear, beginner-friendly approach to complex concepts. They showed me the importance of alternative resources in addition to textbooks, especially for those less experienced in the subject.

While in college, I realized I could make a difference by sharing my knowledge of advanced mathematics. I have always believed in the transformative power of personalized education. Guided by my deep understanding of math and the ability to break down complex concepts into relatable ideas, I have inspired many peers to embrace this subject. I have seen firsthand the struggles many of my peers face when confronted with convoluted mathematical definitions or theorems. I have felt pulled to share my knowledge and help others unlock their full potential.

My unique skill in real-time \LaTeX -typesetting played a major role. With it, I turned my lecture notes into detailed, easy-to-understand, self-contained writeups, interweaved with illustrations and intuition-facilitating remarks. Some notes have also been used as the primary teaching material in later semesters. By reducing the level of abstraction and building upon intuition, I make abstract concepts accessible and less daunting for first-time learners. Through my dedication to producing detailed notes that often exceed 100 pages, I have helped countless individuals conquer their fear of mathematical abstraction. By sharing my love for teaching, I aim to contribute to the learning community on and off campus while at [school]. I aspire to further broaden the scope of my teaching resources to individuals who lack access to educational tools in their former stages of education. In addition, I would love to collaborate with tutoring organizations to empower students who may have previously been intimidated by the complexities of math to pursue majors in related fields like theoretical CS or statistical ML.

It has been a privilege for me to advise dozens of students across ten courses over the past three years. These students came from diverse academic backgrounds, each with a unique way of learning. While some preferred a more theoretical or axiomatic approach, others were visual learners who loved geometry more than anything else. Even when explaining identical concepts, I always presented them differently. It was incredibly fulfilling to see that my individually tailored teaching plans helped these students achieve academic success. Through this process, I have gained invaluable insights into the diverse needs within my academic community, something I had long overlooked. As I pursue a graduate degree, I am confident that my commitment and passion for teaching will contribute to the school's mission of fostering a more scholarly, diverse, and inclusive community.