Computational Physics: Problem Set 1

By Hayden Orth; GitHub: haydenorth

September 12, 2023

Abstract

This article investigates my goals for the course and tentatively for the future. It also presents a figure of a nicely plotted Gaussian function.

1   Discussion

Throughout the duration of this course, I would like to sharpen my Python programming skills for doing math and for data analysis. I have programmed in Python in the past; it will be nice to get a refresher. I also have programming experience in Java, C++, and C. I don't have definite plans for the future yet. Academia and National Labs sound fun right now. Currently, I plan to pursue a postdoctoral research position after finishing my PhD. But who knows? I don't even know for sure exactly which field I'll do my PhD in. The figure of the Gaussian distribution is included on the next page.
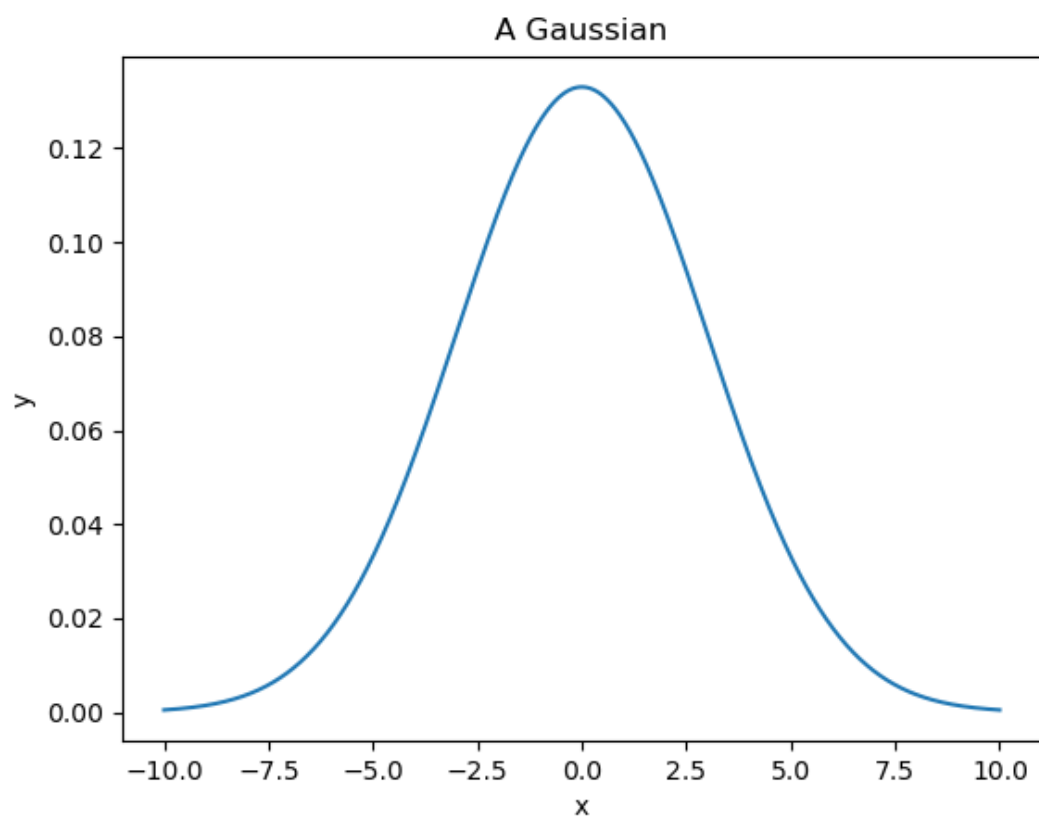
Figure 1: Plot of a Gaussian with a mean of zero and a standard deviation of three over the range [-10, 10].