

# Autobiography

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## 1 Background

I completed my undergraduate degree at Indiana University of Pennsylvania (IUP) in December of 2012 in Mathematics.

Prior to graduate school, I worked in the healthcare IT industry as an Analyst. I focused on analyzing large data sets of revenue-driving transactions - for example, insurance eligibility, claims and remittances. I worked on creating algorithms and statistical metrics to measure the quality and stability of these transactions as well as performance optimization using predictive modeling.

In my position, I created relational database tables and scheduled procedures to continuously pull in new data as it came in. For this purpose, I learned the coding language SQL.

I am now a graduate student at Ohio University in the Mathematics, with a concentration on Pure Mathematical topics and a secondary concentration on applied computational methods.

### 1.1 Mathematical Research

I have not studied tensors before joining the DSoTA. However, I have used numerical analysis for projects in Modeling and Simulation, and am currently taking MATH 5600, Introduction to Numerical Analysis.

My research experience lies in graph theory - specifically vertex colorings of large cliques - and applications of dynamical systems. One project applied a Lotka-Volterra model to Quebec's French and English speaking populations to prove the existence of a stable point population for both languages.

## 2 Goals

I am doing an exploration with the DSoTA group this semester because I want to improve my computational skills, programming abilities, and gain experience with long-term projects.

My career goals would be to eventually become a research professor. Therefore, I am hoping this exploration can provide a introduction to completing individual research projects.

## 3 Other Interesting Things

I love photography, classic films, and I play guitar/sing. My favorite film is Akira Kurosawa's Ikiru, followed by Seven Samurai.