

Mathematical Autobiography

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1 Background

I received a Bachelor degree in Biological Science and a Bachelor degree in Computer Science from Capital Normal University in Beijing, China. I received a Master Degree in Computer Science from Ohio University in 2015. Currently, I'm a Master student in Math and a Ph.D. candidate in Computer Science focusing on genomic and epi-genomic biomarker discovery using machine learning and deep learning method. I passed my written exam in Summer 2015 and my oral exam in Spring 2016.

I had been working with Dr. Wei Lin on a DNA barcoding project. I built a web service for analyzing DNA sequences. The manuscript is under preparing. My team was ranked at 9th place in the 2013 HPN-DREAM breast cancer network inference challenge. This resulted in a co-authored paper (under DREAM Challenge Community) published in Nature Methods, titled "Inferring causal molecular networks: empirical assessment through a community-based effort". I have an on-going patent application in diagnosing Type-II Diabetes.

Python is the language that I use every day. R (ggplot) is the main language that I use to plot figures. Matlab is the language that I use due to class requirement. I also gave a series of tutorial sessions in this summer about web design using HTML, CSS and JavaScript.

2 Interests and Goals

I like to learn any new methods that can be applied to biological data and thus bringing new ideas. I'm also addicted to any striking visualizing methods and ideas. I like the quote, which is also in my website, "The best way to have a good idea is to have lots of ideas".

3 Why do I join DSoTA

I regard myself in this group as a learning student. The main reason I'm here is because that the potential use of tensor approximation in solving the feature selection problem in machine learning, which is very relevant to my research. Besides, I really think I could help the group with Python coding.

4 Preferred learning styles

Not sure this one is interesting, but the VARK shows I have a multimodal learning preference with scores of 10,10,8,7.

5 My life

I'm trying to live a very lazy life. This is probably because most of the philosophy books I read is all for a lazy life.