

# Mathematical Autobiography

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## 1 Background

I received my BA from Lycoming College, a liberal arts college in Williamsport, PA, in 2006, and from there proceeded directly to Ohio University, where I received my MA, with a focus on topology and set theory, two years later. During my pursuit of my doctorate from the same, I crossed over into more applied areas, which form my current research. I plan to defend during the Summer of 2015, and am seeking employment in academia.

## 2 Current and future work

I have been conducting my doctoral research under the directorship of Dr. Young (Ohio University), in the subject of dynamical systems applied to biological systems. The primary subject of my research has been the cell division cycle of yeast; motivated by the observation that yeast clusters (non-spacially) in its cell division cycle, we consider a signaling/response feedback model as a probable cause of this phenomenon. As a secondary interest, I have done research into heteroclinic sequences in neural networks.

As my current research winds down, I seek to expand my interests into other areas. My participation in this project represents one prong of that effort; the other is a project to facilitate early diagnosis of ventilator-associated pneumonia.

## 3 Learning style

The VARK questionnaire rates me as multimodal:

Visual 4

Aural 9

Read/Write 9

Kinesthetic 4

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