

# F. Middle Last

Resumé (March 28, 2016)

## CONTACT INFO

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## EDUCATION

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**B.S., Physics and Mathematics**  
**Logic and Methodology (Minor)** 2016  
*North Carolina State University*

Graduate of the Math Honors Program. Member of  $\Sigma\Pi\Sigma$ , the physics honor society.

Math GPA: 3.9. Physics GPA: 3.3.

Selected undergraduate courses: Classical Mechanics I-II, Electromagnetism I-II, Quantum Physics I-II, Thermal Physics, Scientific Method, Numerical Analysis II, Number Theory, Probability Theory, Game Theory

Selected graduate courses: Abstract Algebra, Linear Algebra, Combinatorics, Differential Equations II, Real Analysis II, Nonlinear Dynamics and Chaos, Set Theory & Foundations

## COMPUTER SKILLS

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Linux (Ubuntu)	MATLAB
Python (2 & 3)	LabVIEW
JavaScript	L <sup>A</sup> T <sub>E</sub> X

## EXPERIENCE

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### Teaching / Tutoring

- I tutored at NCSU's Physics Tutorial Center for one year during my undergraduate studies. In addition, I worked as a private tutor for both math and physics.
- In my graduate set theory course (MA 561), I taught a one-week module on category theory, after the primary course material had concluded.

### Software Development

- I am the author and lead developer for the Python package `xxxxx`, which implements object-oriented representations of various number-theoretic and combinatorial structures. The repository can be found at [github.com/mygithub/xxxxx](https://github.com/mygithub/xxxxx).
- I am on the developer team for A Webgame, an open-source web game written in JavaScript. I am responsible for several end-game content tracks and general QA testing. The GitHub repository (along with my contributions) can be found at [github.com/someoneelse/awebgame](https://github.com/someoneelse/awebgame).

### **Laboratory Research**

- Along with two partners, I conducted an analysis of Chua's circuit, the simplest known circuit that exhibits chaotic behavior. This entailed assembling and soldering the circuit, implementing a specialized iterative fit algorithm in MATLAB, comparing the results to the "double scroll" theoretical expectation, and typesetting a formal research report. The report can be found at [mywebpa.ge/papers/ChuaCircuit.pdf](https://mywebpa.ge/papers/ChuaCircuit.pdf).