

Lance Myers

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Education

Exp Grad. 2020 **BS in Mathematics**, *University of Louisiana at Lafayette*, Lafayette, GPA:3.88.
Minor in Physics

Research and Projects

Summer 2016 **Latin Square Solutions to a Modified Rubik's Cube.**

- Categorized all solutions of the 2×2 case
- Bounded the number of solutions to the $n \times n$ case
- Presented poster at LSU SURF 2016

Spring 2018 **An Analysis of Colony Collapse Disorder.**

- Developed a system of ODE's to model not only the bee population but also the population of flowers transmitting the disease
- Wrote numerical simulations of the system in MATLAB
- Analytically determined stability conditions for the system

Spring 2018–Present **Hypercyclic Operator Theory.**

- Began by working through the essential parts of *Introductory Functional Analysis* by Kreyszig
- Read through the foundational papers of the field
- Prepared a presentation on the Invariant Subspace Problem
- Currently working on frequently hypercyclic operators

Fall 2018–Present **Lego - A Small Programming Language.**

- Compiles physically meaningful computation to efficient C
- Type system modeled after dimensional analysis
- Prioritizes correctness, expressiveness, and efficiency in that order
- Enables interactive editing
- More information at github.com/lancekmyers/LEGO

Extracurricular Involvement

Fall 2017–Present **UL Math Society.**

Vice President since Fall of 2018

- Give short presentations and lead discussions
- Help to plan and coordinate activities
- Communicate information about meetings

Technical Skills

Proficient Haskell, Scheme, Ocaml
Intermediate MATLAB, Python, Agda
Tools \LaTeX

Awards

Jefferson Caffery Scholarship

2018 Second Place in LA/MS MAA Team Competition

Spring 2018, Fall 2018 President's List

Fall 2017 Dean's List