

# MATTHEW J. KUKLA

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## EDUCATION

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**University of Maryland**  
BSc. in Mathematics

Expected 2021

## WORK EXPERIENCE

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**The Math Citadel**  
*Researcher*

Spring 2019-Present

- Conducted research in fuzzy set theory and network theory
- Developed software packages
- Contributed to several technical articles

**Patton Electronics**  
*Software Engineering Intern*

Summer 2016  
Gaithersburg, MD, USA

- Developed a Linux-based operating system for VDSL router prototype
  - Wrote, compiled, and patched hardware-specific kernel modules
  - Tested kernel builds
  - Organized and documented existing codebase

## SKILLS

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**Programming Languages**  
**Operating Systems**

C, OCaml, Python, Java, MATLAB, shell script, Haskell, L<sup>A</sup>T<sub>E</sub>X  
Linux, BSD, Solaris, MS-DOS, Microsoft Windows

## PUBLICATIONS

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**Rings of Typed Ordered Fuzzy Numbers**  
*Authors: Matthew Kukla, Rachel Traylor (2020)*  
*Preprint, arXiv:2010.07764*

## TALKS AND PRESENTATIONS

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**Categorical Mirror Symmetry of Elliptic Curves (two lecture series)**  
*University of Maryland Geometry and Physics Seminar (2018)*

**Generalized Calabi-Yau Manifolds**  
*University of Maryland Geometry and Physics Seminar (2018)*

## CONFERENCES

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**University of Maryland Geometry Festival**  
*University of Maryland (May 2019)*

**Witt Vectors, Deformations, and Absolute Geometry**  
*University of Vermont (June 2018)*