

MATTHEW J. KUKLA

mkukla1@umd.edu

<http://math.umd.edu/~mkukla1> \diamond <http://mkukla.net>

EDUCATION

University of Maryland
BSc. in Mathematics

expected 2021

WORK EXPERIENCE

The Math Citadel
Researcher

Spring 2019-Present

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

Programming Languages
Operating Systems

C, OCaml, Python, Java, MATLAB, Shell script, Haskell, Perl
Linux, BSD, Solaris, Microsoft Windows, MS-DOS

PUBLICATIONS

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

TALKS AND PRESENTATIONS

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

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

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