

MATTHEW J. KUKLA

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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, L^AT_EX
Linux, BSD, Solaris, MS-DOS, Microsoft Windows

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)