

MATTHEW J. KUKLA

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EDUCATION

University of Maryland
Mathematics, BSc.

Expected 2022

WORK EXPERIENCE

The Math Citadel
Researcher

Spring 2019-Present

- Conducted research in fuzzy set theory and network theory
- Developed numerous 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

Languages	C, OCaml, Python, Java, MATLAB, Shell, Haskell, Fortran
Operating Systems	Linux, UNIX (BSD and Solaris), MS-DOS, Microsoft Windows
Web	HTML, CSS, Apache, Gopher

PUBLICATIONS

Logical Limit Laws for Layered Permutations and Related Structures
Authors: Samuel Braufeld, Matthew Kukla (2021)
Published, Enumerative Combinatorics and Applications.

Colored Convex Linear Orders and Logical Limit Laws
Authors: Matthew Kukla (2021)
Preprint.

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

TALKS AND PRESENTATIONS

Logical Limit Laws for Layered Permutations and Related Structures *University of Maryland Logic Seminar (2022)*

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)