# JOHN SOLAK

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First year PhD student in Mathematics at the University of Illinois at Chicago.
Received Bachelor's Degree in Mathematics at the University of Illinois at Urbana-Champaign with High
Distinction. Received dual minors: Philosophy and Spanish.

## EDUCATION

**AUGUST 2023 – MAY 2029**

**PHD IN MATHEMATICS,** UNIVERSITY OF ILLINOIS AT CHICAGO

Sample Graduate-Level Coursework:

*Second Course in Abstract Algebra II*
*Model Theory II*
*Second Course in Abstract Algebra I*
*Model Theory I*
*Teaching and Presentation of Mathematics*

**AUGUST 2020 – MAY 2023**

**B.S. IN MATHEMATICS,** UNIVERSITY OF ILLINOIS AT URBANA-CHAMPAIGN

*Graduated with High Distinction recognition from the Math Department*
Sample Coursework:

*(Graduate-level) General Topology*
*Algebraic Topology (Independent Study) w/ Prof. Matthew Ando*
*Set Theory and Topology*
*Complex Variables (Analysis)*
*Real Analysis*
*Intro to Combinatorics*
*Probability Theory*
*Intro Partial Differential Equations*
*Intro to Computer Science (Java)*

## RESEARCH AND FURTHER STUDY

**SPRING 2024**
**UIC Graduate Student Logic Seminar**

**SUMMER 2022- FALL 2022**
**Undergraduate Researcher,** POLYMATH JR. UNDER PROF. JOHANNA FRANKLIN

**SUMMER 2022**
**Topology Workshop,** UNIVERSITY OF NOTRE DAME

**SPRING 2022**
**Undergraduate Researcher,** ILLINOIS GEOMETRY LAB (IGL) REU UNDER PROF.
FELIX LEDITZKY

# PRESENTATIONS

**JANUARY 6, 2023**
**Aspects of Kolmogorov Complexity,** JMM 2023
HYNES CONVENTION CENTER, BOSTON, MA

**OCTOBER 21, 2022**
**Aspects of Kolmogorov Complexity,** MATHEMATICS UNDERGRADUATE FRIDAY
SEMINAR
UNIVERSITY OF ILLINOIS URBANA-CHAMPAIGN

**MAY 5, 2022**
**Quantum Capacity Bounds and Semidefinite Programming,** IGL (END OF SEMESTER)
POSTER SESSION
UNIVERSITY OF ILLINOIS URBANA-CHAMPAIGN

# TEACHING EXPERIENCE

- TA MATH 125 (Elementary Linear Algebra), SP 2024
- TA MATH 121 (Precalculus), FA 2023
- Tutoring Middle School and High School-level Mathematics

# SKILLS

- LATEX
- Fluency in Spanish
- Java (coding)
- Mathematica (coding)