

JOHN SOLAK

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Second 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:

O-Minimality and Applications (Reading Course) w/ Ronnie Nagloo
Differentiable Manifolds I
Second Course in Abstract Algebra II
Model Theory II
Second Course in Abstract Algebra I
Model Theory I
Teaching and Presentation of Mathematics
Mathematical Logic

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-CURRENT

UIC Graduate Student Logic Seminar

SUMMER 2022- FALL 2022

Undergraduate Research, 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 165 (Business Calculus), FA 2024
- Co-Instructor, Math Circles of Chicago, FA 2024
- TA MATH 110 (College Algebra), SU 2024
- 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)

