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:

Advanced Topics in Logic, a course in Computability Theory
Simple Theories (Reading Course) w/ James Freitag and Gabriel Conant
O-Minimality and Applications (Reading Course) w/ Ronnie Nagloo
Second Course in Abstract Algebra II
Model Theory II
Differentiable Manifolds I
Algebraic Topology 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
LHS, UIC's 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

- Instructor Math 179 (Emerging Scholars Program Workshop for Calculus I), SP 2025
- TA MATH 180 (Calculus I), SP 2025
- 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)