

GABRIEL DAY

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EMPLOYMENT

Instructor of Philosophy, Loyola University New Orleans

Fall 2026—present

AREAS OF SPECIALIZATION

Philosophy of Mathematics, Mathematical Logic (Model Theory)

AREAS OF COMPETENCE

Philosophy of Science, Social and Political Philosophy

EDUCATION

University of Chicago

Fall 2016—Spring 2020

Philosophy and Allied Fields, A.B. with Honors, June 2020

Mathematics A.B. with Honors, June 2020

Degrees taken *magna cum laude*

University of Notre Dame

Fall 2020—Spring 2026

Joint Ph.D in Philosophy and Mathematics

Dissertation: “Results and Reflections on Model-theoretic Classification”

Philosophy advisor: Curtis Franks

Mathematics Advisor: Nicholas Ramsey

AWARDS

2020

Special Honors for a Thesis in Philosophy, University of Chicago Department of Philosophy

2020—2026

University of Notre Dame Presidential Fellowship

2025

Certificate for Excellence in College Teaching, Notre Dame Kaneb Center for Teaching Excellence

2026

Outstanding Summer Online Instructor Award, Notre Dame Summer Online Learning Program

PUBLICATIONS AND ACCEPTED PAPERS

1. *Two Model-theoretic Accounts of Mathematical Complexity*

Accepted in *Philosophia Mathematica*, 2026

2. *Results on Colored Tree Properties*

Accepted in *Journal of Symbolic Logic*, 2026

Preprint available at [arXiv:2507.06977](https://arxiv.org/abs/2507.06977)

PAPERS UNDER REVIEW AND PREPRINTS

1. *On the Notion of a Patterning Property in Model Theory* (Joint work with Scott Mutchnik)

Submitted

Preprint available at [arXiv:2606.18533](https://arxiv.org/abs/2606.18533)

TALKS

1. *A New Argument against Non-Well-Founded Set Theory*
43rd Annual Graduate Philosophy Conference at the University of Illinois at Urbana-Champaign, April 2022
2. *A New Argument against Non-Well-Founded Set Theory*
Midwest PhilMath Workshop, October 2022
3. *An introduction to GEM models and their application to the $\leq_1^*$ interpretability order*
23rd Graduate Student Conference in Logic, April 2023
4. *A Result on Generalized Local Character (poster)*
Poster Session at the Model Theory Conference in Seoul, August 2023
5. *How Classification Reveals Structural Knowledge of Formal Theories*
Conference on Rigor and the Growth of Knowledge at SPHERE, Paris, February 2024
6. *Understanding model-theoretic classification*
7th International Meeting of the Association for the Philosophy of Mathematical Practice, Pavia, June 2024
7. *Two Model-theoretic Accounts of Mathematical Complexity*
Rust Belt Workshop in Logic and Philosophy of Mathematics at Ohio State University, February 2025
8. *What makes a mathematical theory complex? Comparing two model-theoretic accounts*
University of Notre Dame History and Philosophy of Science Colloquium, February 2025
9. *What is a model-theoretic patterning?*
Paris-Chicago Joint Conference in the Philosophy of Logic and Mathematics, June 2025
10. *On colored tree properties*
University of Notre Dame Logic seminar, October 2025
11. *On colored tree properties*
Peking University model theory seminar, October 2025
12. *On colored tree properties*
University of Illinois at Chicago Logic seminar, October 2025
13. *On colored tree properties*
University of Maryland Logic seminar, November 2025
14. *New results on notions of model-theoretic patterning*
Simposio Latinoamericano de Lógica Matemática (Universidad de los Andes, Bogota, Colombia), June 2026

TEACHING

At Loyola University New Orleans

Fall 2026

Primary Instructor, Philosophy of the Human Person (two sections)

At Notre Dame

Summer 2026

Primary Instructor, Introduction to Marx (Online)

Spring 2024

Primary Instructor, Introduction to Marx

Fall 2021

Teaching Assistant, Ancient and Medieval Philosophy

Spring 2022

Teaching Assistant, Introduction to Philosophy

Fall 2022

Teaching Assistant, Introduction to Philosophy

Spring 2024

Teaching Assistant, Formal Logic

Spring 2022

Guest Lecturer, Philosophy of Mathematics (Prof. Joel Hamkins)

Fall 2022

Guest Lecturer, Intermediate Logic (Prof. Joel Hamkins)

Fall 2025

Guest Lecture, Calculus I (Prof. Brian Mulholland)

Fall 2025

Guest Lecturer, Introduction to Philosophy: Philosophy and Mathematics (Prof. Timothy Bays)

SERVICE

Fall 2025—present, Fall 2021-Spring 2023	Mentor for Undergraduate Philosophy Students
2022—present	Co-organizer, Graduate Student Logic and Philosophy of Mathematics Group
2021—present	Philosophy department graduate recruitment committee
Fall 2023—Spring 2025	Co-organizer, Graduate Student Mathematical Logic Seminar

REFERENCES

NOTE: Please contact department administrator Christine Grandy (cgrandy@nd.edu) for confidential copies of all letters.

Curtis Franks, University of Notre Dame Department of Philosophy (Curtis.D.Franks.7@nd.edu)

Nicholas Ramsey, University of Notre Dame Department of Mathematics (sramsey5@nd.edu)

Patricia Blanchette, University of Notre Dame Department of Philosophy (patricia.blanchette.1@nd.edu)

John Baldwin, University of Illinois at Chicago Department of Mathematics (jbaldwin@uic.edu)

Fred Rush, University of Notre Dame Department of Philosophy (frush@nd.edu **Philosophy teaching letter**)

Brian Mulholland, University of Notre Dame Dept of Math (bmulholland@nd.edu **Mathematics teaching letter**)