# Curtis Franks

Department of Philosophy
The University of Notre Dame
cfranks@nd.edu, (574)631-5049

## Academic positions

- Associate Professor of Philosophy
  College of Arts and Letters
  University of Notre Dame

## Administrative positions

- Editor in chief
  Notre Dame Journal of Formal Logic

- Director of the joint program in Logic and Foundations of Mathematics
  University of Notre Dame

## Other positions

- Member of the Association of Advanced
  Rabbinical and Talmudic Schools

## Education

- University of California, Irvine
  Department of Logic and Philosophy of Science
  PhD. June 2006

- William Marsh Rice University. Houston, Texas
  B.A. in mathematics and philosophy, *magna cum laude* 2000

## Areas of research

history and philosophy of logic, philosophy of mathematics,
proof theory, pragmatism

## Previous positions

- Assistant Professor of Philosophy
  College of Arts and Letters
  University of Notre Dame, 2006 – 2013

- Director of Graduate Studies
  Department of Philosophy
  University of Notre Dame, 2014 – 2020

## Professional memberships

- Association of Symbolic Logic

- American Philosophical Association

## Published writing

BOOKS

1. *The Autonomy of Mathematical Knowledge: Hilbert's Program Revisited.* Cambridge University Press. 2009. (232 pgs)

ENCYCOLPEDIA ARTICLES

2. "Propositional logic," in the *Stanford Encyclopedia of Philosophy*.

ESSAYS

3. "The Gödelian inferences," *History and Philosophy of Logic* **30**(3), 2009, 241–56.

4. "Cut as consequence," *History and Philosophy of Logic* **31**(4), 2010, 349–79.

5. "Stanley Tennenbaum's Socrates," in J. Kennedy and R. Kossak (eds.) *Set Theory, Arithmetic, and Foundations of Mathematics: Theorems, Philosophies.* Cambridge University Press. 2011.

6. "The realm of the sacred, wherein we may not draw an inference from something which itself has been inferred," *History and Philosophy of Logic* **33**(1), 2012, 69–86.

7. "Logical completeness, form, and content: an archaeology,"
   in J. Kennedy (ed.) *Interpreting Gödel: Critical Essays*.
   Cambridge University Press. 2014.

8. "Logical nihilism," in P. Rush (ed.) *The Metaphysics of Logic*.
   Cambridge University Press. 2014.
   Reprinted in A. Hirvonen, J. Kontinen, R. Kossak, A. Villaveces (eds.),
   *Logic Without Borders*. de Gruyter. 2015.

9. "David Hilbert's contributions to logical theory,"
   in A. P. Malpass and M. Antonutti-Marfori (eds.), *The History of
   Philosophical and Formal Logic*. Bloomsbury. 2017.

10. "Constructing the simples," in P. Ording and R. Kossak (eds.),
    *Simplicity: Ideals of Practice in Mathematics & the Arts*.
    Springer. 2017.

11. "The context of inference," *History and Philosophy of Logic* **39**(4),
    2018, 365–95.

12. "Wittgenstein's wayward student: the unauthorized autobiography,"
    to appear in J. Kennedy and S. Arbeiter (eds.),
    *Penelope Maddy on Set Theory and Naturalistic Method*.
    Springer: Outstanding Contributions to Logic.

13. "The deduction theorem (before and after Herbrand),"
    *History and Philosophy of Logic* **42**(2), 2021, 129–59.

14. "The fate of the syllogism in the Göttingen school,"
    in L. M. Verburgt and M. Cosci (eds.), *Aristotle's Syllogism and
    the Creation of Modern Logic: Between Tradition and Innovation,
    1820s—1930s*. Bloomsbury. 2023.

15. "Logic discovered and logic imposed (a Purim story),"
    in C. Posy and Y. Ben-Menachem (eds.), *Mathematical Knowledge,
    Objects, and Applications: Essays in honor of Mark Steiner*.
    Springer. 2023.

POETRY

- Some of my poetry has appeared in *Light*, *Fleas on the Dog*, *Lighten Up*,
  and *The Orchards*.

**Invited lectures**

1. "Gödel in 20/20: hindsight, foresight, and logical blindness,"
   Tribute to Gödel 2020, Brno, Czech Republic. January 2020.

2. "Logical completeness: the very idea" (five lectures)
   Scandanavian Logic Society and Association of Symbolic Logic
   Summer School. Helsinki. 2015.

3. "The complexity of simplicity" Simplicity:
   Ideals of Practice in Mathematics and the Arts, New York City 2013

4. "An ancient sub-structural logic" CUNY logic seminar,
   (computer science department) 2012.

5. "Gödel's last thought on Gentzen's consistency proof"
   CUNY logic seminar, (mathematics department) 2012.

6. "Sacred inference" 25th Bar-Hillel lectures, Jerusalem 2011.

7. "What set theory and category theory can teach an anti-foundationalist"
   Philmath Intersem, Paris 2010.

**Doctoral students**

1. Chris Porter, "Mathematical and philosophical perspectives
   on algorithmic randomness" (co-directed with Michael Detlefsen
   and Peter Cholak). 2012.

2. Corey Dethier, "Multiple models, robustness, and the epistemology of climate science" (co-directed with Anjan Chakravartti). 2020.

3. Ellen Lehet, "The explanatory value of category theory." 2020.

4. Paul Tran-Hoang, "Model-theoretic logicism" (co-directed with Tim Bays). 2020.

5. Matteo Bianchetti, "Geometric representations in mathematical problem-solving: intuition and creativity." 2021.

**Undergraduate theses**

1. Ethan Osterman, philosophy

2. Xiaosong Yu, philosophy

3. Shae Himmelberger, program for liberal studies

4. Patrick Corry, philosophy

5. Thomas Graff, philosophy/theology concentration (co-directed)

6. Taylor Nutter, philosophy

7. James Schmidt, philosophy

8. Elliott Peirce, program for liberal studies

9. Steven White, philosophy/theology concentration (co-directed)

10. Mark Cerenzia, mathematics (co-directed)

## Current projects

- *Logical Completeness: the very idea*, a monograph expanding the accounts and results found in essays [4], [7], [9], [14]

- "Proofs of the disjunction property," comparisons among the techniques used to verify a property of constructive logics based on frame semantics, cut-elimination, realizability interpretations, slash relations, and free topoi stage an analysis of Gödel's earlier observation.

## Service

- Chief editor, Notre Dame Journal of Formal Logic, 2019 – present

- Director of the joint graduate programs in logic and foundations of mathematics, 2021 – present

- UND Department of Philosophy Director of Graduate Studies.
  2014 – 2020

- UND College of Arts and Letters Academic Honesty Committee. (student ombudsman) 2018 – present

- UND College of Arts and Letters Academic Honesty Committee. (chair) 2015 – 2018

- chief author, Masters of Arts in Mathematical Philosophy (new degree program at the University of Notre Dame)

- USAID consultant for the Paragua Rule of Law and Culture of Integrity Program, 2022.

- Notre Dame Journal of Formal Logic associate editor, 2013 – 2019

- UND College of Arts and Letters Academic Honesty Committee (member). 2013 – 2015

- Program Committee 2020 Annual Meeting of the Association of Symbolic Logic

- Local Organizing Committee 2020 Annual Meeting of the Association of Symbolic Logic

- chair of special session "Logic and Philosophy" for the 2018 Annual Meeting of the Association of Symbolic Logic

- local organizing committee for the 2009 Annual Meeting of the Association of Symbolic Logic

- organizing committee for the Midwest Philosophy of Mathematics Workshop. 2006 – 2022

- UND Department of Philosophy Philosophy of Biology Search Committee (chair)

- UND College of Arts and Letters Academic Council. 2014 – 2017

- UND College of Arts and Letters Undergraduate Studies Committee. 2014 – 2021

- UND Department of Philosophy Committee of Appointments and Promotions. 2014 – 2017

- UND Department of Philosophy Graduate Student Admissions committee. 2013 – 2020

- UND Department of Philosophy
Undergraduate Curriculum Committee. 2010 – 2016

- UND Department of Philosophy
Comprehensive History Exam Committee (chair). 2011, 2014

## Scholarships and fellowships

- University of California Regents Dissertation Writing Fellowship, 2005

- National Merit Scholarship, 1998

## Distinctions, honors, and awards

- University of Notre Dame Director of Graduate Studies Award, 2018

- Phi Beta Kappa

- Hubert E. Bray Prize in Mathematics