

Daniel Carranza

Curriculum Vitae

Education

- Fall 2023 **Ph.D.**, Johns Hopkins University
Mathematics
- 2022-2023 **Program Associate**, MSRI
- 2021-2022 **M.Sc.**, University of Toronto
Mathematics
- 2017-2021 **B.Sc.**, Western University
Honour's Specialization in Mathematics; minor in Computer Science.

Research

Papers

- February 2021 **Cubical setting for discrete homotopy theory, revisited**, Preprint
With C. Kapulkin
<https://arxiv.org/abs/2202.03516>
- February 2021 **Homotopy groups of cubical sets**, Preprint
With C. Kapulkin
<https://arxiv.org/abs/2202.03511>
- January 2021 **2-adjoint equivalences in homotopy type theory**, *Logical Methods in Computer Science*
With J. Chang, C. Kapulkin, and R. Sandford
<https://arxiv.org/abs/2008.12433>
<https://lmcs.episciences.org/7124>

Talks

- October 2022 **TBA**, *AMS Fall Eastern Sectional Meeting*, University of Massachusetts Amherst
- August 2020 **Formal Verification of Mathematics**, *CUMC 2020*, Western University
<https://youtu.be/LCW682zcEVs>
- August 2020 **Formalizing 2-Adjoint Equivalences in Homotopy Type Theory**, *Western Homotopy Theory Seminar*, Western University
https://youtu.be/BIqhGYoo_PU

Scholarships and Awards

- Summer 2021 **NSERC Undergraduate Student Research Award**, *Cubical Methods in Discrete Homotopy Theory*, Western University
- Summer 2020 **NSERC Undergraduate Student Research Award**, *2-Adjoint Equivalences in HoTT*, Western University
- 2018-2021 **Dean's Honor List**
- September 2017 **Western Scholarship of Excellence**

Teaching Experience

Teaching Assistant

- Winter 2022 **Math Learning Centre**, University of Toronto
- Winter 2022 **Engineering Calculus 2**, University of Toronto
- Fall 2021 **Engineering Linear Algebra**, University of Toronto

Other Activities

- February 2020 **Higher Categories and Categorification**, *Research Visit*, MSRI
- October 2019 **Midwest Homotopy Type Theory Seminar**, *Conference*, University of Michigan