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 , <i>Logical Methods in Computer Science</i> |
| | 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

June 2022 Higher Categories and Categorification, Part Two, Participant, MSRI

February 2020 Higher Categories and Categorification, Research Visit, MSRI

October 2019 Midwest Homotopy Type Theory Seminar, Conference, University of Michigan