LORENZO RIVA

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EDUCATION

Ph.D in Mathematics Fall 2020 - Present
at *University of Notre Dame, Notre Dame, IN*

B.S. in Mathematics, B.S. in Physics Fall 2017 - Spring 2020
Honors Program, Phi Beta Kappa
at *Creighton University, Omaha, NE*

TEACHING EXPERIENCE

Teaching Assistant Fall 2017 - Present
at *Department of Mathematics, University of Notre Dame, Notre Dame, IN*
& *Department of Mathematics, Creighton University, Omaha, NE*
Notre Dame: Calculus I, Honors Calculus II
Creighton: Calculus I, II, III, Linear Algebra and Differential Equations, Introduction to Abstract Mathematics, Mathematical Statistics I

Tutor (mathematics, physics) Fall 2018 - Spring 2020
at *EDGE Center, Creighton University, Omaha, NE*

PUBLICATIONS

1. *Low regularity of non-$L^2(\mathbb{R}^n)$ local solutions to gMHD-alpha systems*, with Nathan Pennington, Electron. J. Differential Equations 2020(54), 2020. (arXiv)

SEMINARS & CONFERENCES, AS ATTENDEE (⋄) AND AS PRESENTER (⬥)

⬥ 14. Graduate Student Seminar (GSS), University of Notre Dame, 2022.
Talk: *You could have formulated the Cobordism Hypothesis*.

⬥ 13. Graduate Student Topology Seminar (GSTS), University of Notre Dame, 2021.
Talk: *Kérékjartó's theorem*.

⋄ 12. Motivic Homotopy week, Graduate Summer School at Park City Mathematics Institute (PCMI), online, 2021.

⋄ 11. Graduates Reminisce Online On Topology (GROOT), online, 2021.

⬥ 10. Graduate Student Topology Seminar (GSTS), University of Notre Dame, online, 2021.
Talk: *An introduction to model categories and homotopy limits*.

⋄ 9. Graduate Student Topology and Geometry Conference (GSTGC), online, 2021.

⋄ 8. Binghamton University Graduate Conference in Algebra and Topology (BUGCAT), online, 2020.

⬥ 7. General Contributed Session on Analysis, Joint Mathematics Meetings (JMM), 2020.
Talk: *Low Regularity Non-$L^2(\mathbb{R}^n)$ Local Solutions to the gMHD-α System*.

⬥ 6. Iowa Section Mathematics Meeting, 2019.
Talk: *Low Regularity Non-$L^2(\mathbb{R}^n)$ Local Solutions to the gMHD-α System*.

⬥ 5. Mathfest, 2019.
Talk: *Low Regularity Non-$L^2(\mathbb{R}^n)$ Local Solutions to the gMHD-α System*.

⬥ 4. Undergraduate Poster Session, Joint Mathematics Meetings (JMM), 2019.
Poster: *Feynman Operational Calculus and the Evolution Equation*.

- 3. Iowa Section Mathematics Meeting, 2018.
  Talk: *Feynman Operational Calculus and the Evolution Equation*.
- 2. Mathfest, 2018
  Talk: *Feynman Operational Calculus and the Evolution Equation*.
- 1. Joint Mathematics Meetings (JMM), 2018.

OTHER

Directed Reading Program Mentor Fall 2021 - Present
at *University of Notre Dame, Notre Dame, IN*

Origami Instructor Spring 2021 - Present
at *Forever Learning Institute, South Bend, IN*

Instructor Fall 2020 - Spring 2021
at *Riverbend Math Circles at Notre Dame, Notre Dame, IN*

HONORS

University of Notre Dame:
Richard Sady Prize Fall 2021

Creighton University:
Mary Hawver Scholarship for High Academic Standing in Mathematics Fall 2019 - Spring 2020
Ferlic Summer Undergraduate Research Fellowship Summer 2019
Honors Summer Undergraduate Research Fellowship Summer 2018