

Tim Van Hoose

CONTACT INFORMATION	Department of Mathematics University of North Carolina at Chapel Hill 120 E. Cameron Avenue Chapel Hill, North Carolina 27514 USA	(573)-578-3656 tvh@unc.edu						
RESEARCH INTERESTS	Harmonic analysis, nonlinear dispersive and stochastic partial differential equations - with specific emphasis on applications in mathematical physics.							
EDUCATION	Department of Mathematics, University of North Carolina at Chapel Hill Ph.D Student, Mathematics (Expected May 2027) <ul style="list-style-type: none">• Advisor: Dr. Jeremy Marzuola Department of Mathematics and Statistics, Missouri University of Science and Technology M.S in Mathematics, May 2022 <ul style="list-style-type: none">• Advisor: Dr. Jason Murphy• Thesis: <i>Several Problems in Nonlinear Schrödinger Equations</i> B.S. in Mathematics, December 2020 <ul style="list-style-type: none">• Highest honors in mathematics							
PUBLICATIONS	L. Campos, J. Murphy, T. Van Hoose, <i>Averaging for the dispersion-managed NLS</i> . Preprint https://arxiv.org/abs/2205.11009 J. Murphy, T. Van Hoose, <i>Well-posedness and blowup for the dispersion-managed nonlinear Schrödinger equation</i> . To appear in Proc. Amer. Math. Soc. J. Murphy, T. Van Hoose, <i>Modified scattering for a dispersion-managed nonlinear Schrödinger equation</i> , Nonlinear Differ. Eq. Appl. 29 , 1 (2022).							
INVITED TALKS	Invited Seminar and Conference Talks <ul style="list-style-type: none">• 2022, GMA Visions Seminar, University of North Carolina at Chapel Hill							
TEACHING EXPERIENCE	Teaching at Missouri S&T <table><tr><th>Semester</th><th>Course Name</th></tr><tr><td>Fall 2021</td><td>Calculus III for Engineers</td></tr><tr><td>Spring 2022</td><td>Calculus III for Engineers</td></tr></table>		Semester	Course Name	Fall 2021	Calculus III for Engineers	Spring 2022	Calculus III for Engineers
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Fall 2021	Calculus III for Engineers							
Spring 2022	Calculus III for Engineers							
HONORS AND AWARDS	2022–2023	Graduate Research Assistant (supported by Dr. Jason Metcalfe) University of North Carolina at Chapel Hill						
	2021–2022	Graduate Teaching Assistant Missouri University of Science and Technology						
	2020	Roman Dwilewicz Excellence in Mathematics Award Missouri University of Science and Technology						
CONFERENCES ATTENDED	<ul style="list-style-type: none">• Rivière-Fabes Symposium, University of Minnesota - Twin Cities, April 2021 [virtual]• Workshop on Generic Behavior of Dispersive Solutions and Wave Turbulence, ICERM, October 2021							

GRADUATE
COURSEWORK

- ☐ Real Analysis
- ☐ Complex Variables
- ☐ Linear Algebra
- ☐ Partial Differential Equations
- ☐ Harmonic Analysis (3 semesters)
- ☐ Differential Geometry
- ☐ Topology
- ☐ Functional Analysis
- ☐ Modern Algebra
- ☐ Vector and Tensor Analysis
- ☐ Quantum Mechanics