Diego Fernando Manco Berrío

Contact	Department of Mathematics, Universi Eugene, OR, 97403 ⊠ dmancobe@uoregon.edu	ity of Oregon, Office: McArthur 111	
Online	Website		
Mathematical Interests	I'm interested in Higher Category Theory and its connections with K-theory and Algebraic Topology.		
Employment	Universidad de Antioquia, Medellín, Colombia.		
	• Part Time Instructor.	Spring 2012 and Spring 2015 - Spring 2018	
Education	University of Oregon, Eugene, OR.		
	Ph.D. in Pure Mathematics	September 2018 - Expected 2024	
	 Advisors: Angélica Osorno and Dan Dugger. Orals: Cohomology operations, Model Categories and ∞-categories. Qualifying Exams: Analysis and Algebraic topology. 		
	Universidad Nacional de Colombia, Bogotá, Colombia.		
	M.Sc. in Mathematics	2016	
	 Thesis: Logic of sheaves of structures on a locale. Awards: Meritory mention. Areas: Logic, Category Theory. Advisor: Fernando Zalamea. 		
	Universidad de Antioquia, Medellín, Colombia.		
	B.Sc. in Mathematics:	2012	
	 Thesis: Chaitin's Ω numbers, Solovay Machines and Incompleteness (in Spanish). Areas: Logic, Algorithmic Information Theory. Advisor: Carlos Mario Parra. 		
Preprints	 D. Manco "A coherence theorem for pseudo symmetric multifunctors", (2023) Submitted. Available at https://arxiv.org/pdf/2311.00150.pdf. 		
Teaching	GE, University of Oregon Instructor of record. My duties were te hours, designing and grading of exams, q	Fall 2016 - Present aching class 4 hours per week, holding office uizzes and homework assignments.	

	 Calculus I Winter 2020, Winter 2021, Spring 2021, Fall 2023, Winter 202 Calculus II Spring 2020, Fall 2020, Fall 2022, Fall 2021 (2 sections Discrete Math I Summer 2020, Sum		
	 Dustifies Calculus II Fundamentals of Mathematics (Discrete Math) Linear Algebra Transfinite numbers 2017 2017		
TA'ing	GE, University of Oregon January 2018 - June 2023 Teaching assistant. I ran 4 discussion sessions of one hour per week, held office hours, gave input to the main instructor, and graded quizzes and exams. • Elementary functions Fall 2019		
Mentoring	Project mentored through UO DRP.Winter-Spring 202• Andrew Rehmann: Completeness for Propositional LogicSpring 202Mentor for Incoming International Phd StudentsSummer 2019- Preser• Juntao Lu (China).AY 23-2		
Past and upcoming Talks	 Research talks (•) are listed above expository talks (*). Joint Mathematics Metteings JMM (San Francisco, USA) AMS special session on Homotopy Theory I Pseudo symmetric multifunctors and applications to K-theory. January 202 Topology seminar (University of Virginia , USA) November 202 Topology seminar (Johns Hopkins University, USA) November 202 Topology seminar (University of Washington, USA) October 202 Topology seminar (University of Oregon, USA) October 202 Topology seminar (University of Oregon, USA) October 202 Topology seminar (University of Oregon, USA) University of Sheaves of structures on a Locale. June 201 * Summer School on Scissors Congruence, Algebraic K-theory and Trace method (University of Indiana, USA) Quillen's Theorems A and B. October 202 * Student topology seminar (University or Oregon, USA) Fall 2019 -present Roughly one talk per term after Quals. Some of the talks include: 		

	Model Categories. Reedy Model Structures. Homotopy Colimits. Dwyer-Kan Simplicial localizations. Mapping spaces in Quasicategories. Operads and iterated loop spaces. Segal's infinite loop space machine. $S^{-1}S$ construction.		
Past and upcoming Conferences	 Joint Mathematics Meetings (JMM) San Francisco, USA Summer School on Scissors Congruence, Algebraic K-theory University of Indiana, USA 	January 2024 J and Trace methods June 2023	
	 Homotopy theory in honor of Paul Goerss Northwestern University, USA Barcelona Conference on Higher Structures 	March 2023	
	Universitat de Barcelona, Spain • Workshop on Derived Geometry	June 2022	
	 Universitat Autònoma de Barcelona, Spain 17th Latin American Symposium on Mathematical Logic Benemérita Universidad Autónoma de Puebla, Mexico 	June 2022 June 2017	
	• XVIII Congreso Colombiano de Matemáticas Universidad Industrial de Santander, Colombia	June 2011	
	• XVIII Congreso Colombiano de Matematicas Universidad del Valle, Colombia	June 2009	
Service	 Directed Reading program at UO Organizer AMS Grad Chapter at UO 	Fall 2024 - Spring 2024 Fall 2023 - Spring 2024	
	Diversity Chair for the Academic Year 2023-2024. • Eugene Youth Math Fest	February 2023	
	Climate committee, Department of Mathematics at	UO 2020 - 2021	
Awards	 Anderson Mathematics Ph.D. Student Research Award, awarded by the Department of Mathematics at the University of Oregon. Fulbright-COLCIENCIAS scholarship awarded by the Colombian Fulbright Comission and COLCIENCIAS. Fall 2018-Summer2022 Honorary Mention for a Master's thesis awarded by the Universidad Nacional de Colombia. June 2016 Best advanced student by program: Mathematics. Awarded by the Universidad de Antioquia. 2009-2011 Best GPA by cohort during 9 out of 10 semesters. Tuition fee waiver awarded by the Universidad de Antioquia. 		
Programming Languages	 Coq MATLAB Programs IATEX 		

Languages

• Spanish (native)

Last Update: November 3, 2023