math.mit.edu/~luisk luisk@mit.edu

Education	MIT, Ph.D. in Mathematics Advisor: Larry Guth	2018-2023 (Expected)
	Stanford University, B.S.H in Mathematics Thesis Advisor: Prof. Yakov Eliashberg Thesis: Removal of Singularities for Stein Manifolds	2014 - 2018
Research Interests	Metric Geometry, Quantitative Topology	
Publications and Preprints	 Kumanduri, L. A relative h-principle for k-dilation. In preparation. 2021 Kumanduri, L. 2021 Quantitative Nullhomotopy and the Hopf Invariant. arXiv preprint arxiv:2106.01456 (Submitted) Kumanduri, L., Wang, J. 2021. Slope Gap Distributions of Veech Surfaces. arXiv preprint arXiv:2102.10069 (Submitted) Menon. S, Sriram. V, Kumanduri. L, Khatib. O, Boahen. K, Controlling a Redundant Articulated Robot in Task Space with Spiking Neurons, The 25th International Conference on Artificial Neural Networks, 2016. 	
Teaching & Service	 MIT Ad Hoc Committee on Graduate Advising and Mentoring Member MIT Math Diversity & Community Building Committee 2020-2021 MIT Pure Math Graduate Student Seminar Organizer 2019-2020 Mentor for MIT PRIMES 2019, 2021 Mentored 2020 Regeneron STS Finalist Zander Hill on "Upper Bound on the Distortion of Cabled Knots" Co-founder, Westchester Area Math Circle 	
Talks	 MIT PuMaGraSS 2021 "A non-rigorous introduction to the h-principle" MIT SPAMS 2019 "Complexity of Problems in Knot Theory" 2018 Stanford Math Directed Reading Program "The Arnold Conjectures" 2017 Stanford Math Directed Reading Program, "Index Theorems in Topology" 2016 SURIM, "Cohomology of Toric Varieties" 	
Fellowships & Honors	NSF Graduate Research Fellowship MIT School of Science Fellowship Stanford Math Department Undergraduate Research Award	2018-2023 2018-2021