

Cameron Fraize

CONTACT INFORMATION	Local Address 4600 SW 13th St Gainesville, Florida 32608	(352) 294-2362 <code>cameron.fraize@ufl.edu</code>
PRESENT POSITION	Teaching Assistant and Graduate Student, University of Florida, 2016-Present	
EDUCATION	University of Florida B.S. in Mathematics, May 2016 <ul style="list-style-type: none">• Minor in physics	
RESEARCH INTERESTS	Computability, model theory, and set theory (in particular, algorithmic randomness and large cardinals); topological data analysis.	
RESEARCH EXPERIENCE	Department of Mathematics University of Florida, Gainesville, FL <i>Undergraduate Honors Research</i> 2015-2016 Research adviser: Dr. Christopher Porter <ul style="list-style-type: none">• Characterization of the number of binary strings of a given generalized length, corresponding to Bernoulli p-measures on Cantor space for p satisfying $p^k = 1 - p$ for positive integers k.• Generalization of Kolmogorov (both plain and prefix-free) complexity and the Kraft-Chaitin theorem to a special class of "generalized length functions" corresponding to the above Bernoulli p-measures on Cantor space.• Generalization of the Levin-Schnorr theorem to characterize Martin-Löf randomness with respect to these measures, with respect to a differing "input" measure (by which we determine shortest generating strings) and the "output" measure (by which we measure the length of initial segments of a binary sequence).	
PUBLICATIONS AND PREPRINTS	"Kolmogorov Complexity and Generalized Length Functions" (with Christopher Porter, preprint).	
SELECTED LECTURES	"Kolmogorov Complexity and Generalized Length Functions", University of Florida, Gainesville, April 2016.	
GRADUATE COURSEWORK	<input type="checkbox"/> Mathematical Logic <input type="checkbox"/> Topology	
EXTRA- CURRICULARS	<i>University Math Society</i> : Director of Intellectual Affairs, 2015-2016. <i>UF Student Government</i> : Students Party Senatorial Candidate, 2013.	
RELEVANT SKILLS	Languages: English, Russian (basic)	
REFERENCES	Christopher Porter , Associate Professor, Department of Mathematics, Drake University, (515)-271-3041, <code>christopher.porter@drake.edu</code>	