Danul Kavindra Gunatilleka
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Department of Mathematics
University of Maryland
College Park, MD 20740

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Education

2012–2019: PhD in Mathematics, University of Maryland College Park
Thesis Title: The Theories of Baldwin-Shi Hypergraphs: Their Atomic Models and Regular Types
Advisor: Michael C. Laskowski
2010–2012: MS in Mathematics, Louisiana State University, Baton Rouge
2005–2009: BSc in Mathematics, University of Colombo, Sri Lanka

Research Interests

Model Theory

Papers and Preprints

2018 Countable models of the theories of Baldwin-Shi hypegraphs and their regular types (accepted)
Journal of Symbolic Logic, DOI: 10.1017/jsl.2019.28
The theories of Baldwin-Shi hypergraphs and their atomic models (submitted)

Awards and Scholarships

Spotlight on Graduate Research Monroe Martin Gold Medal — University of Maryland, Spring 2018
Dean's Fellowship — University of Maryland, Fall 2012
Graduate School Enhancement Award — Louisiana State University, Fall 2010
Douglas Amarasekera Prize — University of Colombo, 2009

Teaching Experience

University of Maryland, College Park 2019 - Present, Lecturer

Math 140: Calculus I: Fall 2019
Math 141: Calculus II (Honors), Fall 2019
Math 240: Linear Algebra, Fall 2019

University of Maryland, College Park 2012 - 2019, Teaching Assistant

Sole Contact Instructor:
Math 141: Calculus II, Summer 2018
Math 140: Calculus I, Fall 2018
Math 113: College Algebra and Trigonometry, Spring 2014

Louisiana State University, Baton Rouge 2010-2012

Sole Contact Instructor:
Math 1021: College Algebra, Fall 2011

University of Colombo, Sri Lanka, 2009-2010

Sole Contact Instructor:
AM 3002: Computer applications in Discrete Mathematics, Spring 2010

In addition, I have also served as a teaching assistant / grader on a variety of classes that includes Calculus III (TA), Model Theory, Axiomatic Set Theory (Grader)

Undergraduate Research Interactions

Graduate Student Mentor, Directed Reading Program, University of Maryland

Thomas Bishop	Quantifier Elimination over Algebraically Closed Fields, Spring 2018
Vlada Dementyeva	Graph Theory (an introduction to probabilistic graphs), Fall 2017
Kyle Reese	Can a countable set contain uncountably many elements? A look into Skolem's paradox, Spring 2017
Zev Kaplowitz	Differential Forms, Spring 2015

Talks at Conferences and Seminars

2019 (Invited) More on generic structures, Conference in honor of Chris Laskowski's 60th birthday

2018 Pseudofinite theories with non-locally modular regular types, UMD Logic Seminar
Counting the countable models of Baldwin-Shi hypegraphs, 2018 Association of Symbolic Logic North American Annual Meeting
An Invitation to Model Theory, University of Sri Jayawardenapura, Sri Lanka

2017 Countable Models of Baldwin-Shi hypergraphs, University of Maryland, College Park
When atomic models are sufficiently universal, 18^{th} Graduate student conference in logic, University of Illinois, Urbana−Champaign

2016 Some results on the model theory of generic structures (expository),
University of Maryland, College Park

Talks at Student Seminars

University of Maryland, College Park, Student Seminar / Reading Group

2018 A closer look at: A Note on "Regularity lemma for distal structures" (expository)

2017 Morley's Theorem V (expository)
Morley's Theorem IV (expository)
Morley's Theorem I (expository)

2016 Hrushovski constructions (expository)
Specializations of Fraïssé constructions (expository)
Fraïssé constructions II (expository)
Fraïssé constructions I (expository)
When Ultrapowers are not enough (expository)

2015 Stable Formulas (expository)
Some Results in Stability Theory (expository)

Service and Outreach

University of Colombo

President	Epsilon-Delta Society, 2008-2009
Vice-president	Epsilon-Delta Society, 2007-2008