

Samson LEUNG

PERSONAL DATA

OCCUPATION: Assistant Teaching Professor
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EDUCATION

AUG 2018 - MAY 2023 Ph.D. in Mathematical Sciences, Carnegie Mellon University
Advisor: Rami Grossberg *GPA: 4.0/4.0*
Thesis: "Stability, Categoricity and Axiomatization of Abstract Elementary Classes"
Hugh Young Graduate Student Teaching Award, 2023
Outstanding Research Graduate Student Prize, 2022

SEP 2014 - MAY 2015 One-year Exchange Program, University of Toronto

SEP 2012 - MAY 2017 Bachelor of Science, The Chinese University of Hong Kong
Major: Mathematics
Minor: French and German

WORK EXPERIENCE

AUGUST 2023 - PRESENT Assistant Teaching Professor, Penn State University
Spring 2024: Math 457 Introduction to Mathematical Logic
Spring 2024: Math 141 Calculus with Analytic Geometry II
Fall 2023: Math 140 Calculus with Analytic Geometry I

SUMMER II 2022 Instructor, Carnegie Mellon University
21127 Concepts of Mathematics

AUG 2018 - PRESENT Grader / Teaching Assistant, Carnegie Mellon University
Summer 2023: TA of 21260 Differential Equations
Spring 2023: Lead TA of 21127 Concepts of Mathematics
Fall 2022: TA of 21254 Linear Algebra and Vector Calculus for Engineers
Summer I 2022: TA of 21260 Differential Equations
Spring 2022: Lead TA of 21260 Differential Equations
Fall 2021: Lead TA of 21241 Matrices and Linear Transformations
Substitute instructor for one week
Summer II 2021: TA of 21127 Concepts of Mathematics
Summer I 2021: TA of 21259 Calculus in Three Dimensions
Spring 2021: Lead TA of 21122 Integration and Approximation
Substitute instructor for two weeks
Fall 2020: Lead TA of 21259 Calculus in Three Dimensions
Summer 2020: TA of 21259 Calculus in Three Dimensions
Spring 2020: Lead TA of 21259 Calculus in Three Dimensions
Fall 2019: Lead TA of 21259 Calculus in Three Dimensions
Summer 2019: Grader of 21300 Basic Logic
Spring 2019: TA of 21241 Matrices and Linear Transformations
Fall 2018: Grader of 21127 Concepts of Mathematics

WORK EXPERIENCE

SEP 2017 - JUL 2018	Private Tutor Specialized in international curricula of Mathematics and Science Tutored university students in Mathematics and Statistics courses
MAY 2017 - SEP 2017	Teacher of Mathematics, NTK Academic Group Specialized in IB, AP and GCE AL Mathematics
AUG 2015	Tutor leader, Enrichment Programme for Young Mathematics Talents Designed tutorial sessions and quizzes for Number Theory and Cryptography
JUL 2014	Tutor, Enrichment Programme for Young Mathematics Talents Organized tutorial sessions for Complex Numbers and Analytic Geometry

PAPERS

1. Hanf number of the first stability cardinal in AECs
(32 pages, [arXiv: 2108.00565](#), [published](#) in Annals of Pure and Applied Logic)
2. Axiomatizing AECs and applications
(31 pages, [arXiv: 2108.09708](#), [published](#) in Annals of Pure and Applied Logic)
3. Stability results assuming tameness, monster model and continuity of nonsplitting
(56 pages, [arXiv: 2112.01572](#), [published](#) in The Journal of Symbolic Logic)
4. Categoricity transfer for tame AECs with amalgamation over sets
(35 pages, [arXiv: 2203.08956](#), submitted to The Journal of Mathematical Logic)

TALKS

MAR 28, 2023	ASL North American Annual Meeting: First stability cardinals of AECs
NOV 17, 2022	Thesis defense: Stability, Categoricity and Axiomatization of Abstract Elementary Classes
OCT 18, 2022	PALS Seminar: Axiomatizing AECs and applications
OCT, 2022	GSMT Seminar: Universal classes and classes with intersections
APR 19, 2022	Mathematical Logic Seminar: Categoricity results of abstract elementary classes
APR 8, 2022	ASL North American Annual Meeting: Axiomatizing AECs and applications
FEB - MAR, 2022	GSMT Seminar: From nonsplitting to nonforking in AECs
JAN - FEB, 2022	Model Theory Seminar: Stability results assuming tameness, monster model and continuity of nonsplitting
NOV - DEC, 2021	Model Theory Seminar: Axiomatizing AECs and applications
OCT - NOV, 2021	GSMT Seminar: Infinitary logics and abstract elementary classes
SEP - OCT, 2021	Model Theory Seminar: Hanf number of the first stability cardinal in AECs
MAR, 2021	GSMT Seminar: Cube problem for linear orders
NOV 20, 2020	GSMT Seminar: Some descriptive set theory in model theory
OCT 16, 2020	GSMT Seminar: Many uncountable models with a linear order
OCT 2020	Model Theory Seminar: Tameness and good λ -frames
MAR - APR, 2020	Model Theory Seminar: Superstable Fields and Groups
FEB 6, 2020	GSS Seminar: "100% correct" forecasting

CONFERENCES

MAR, 2023 Speaker in ASL North American Annual Meeting
APR, 2022 Speaker in ASL North American Annual Meeting
AUG, 2019 Participant in A conference in honor of Chris Laskowski's 60th birthday

LANGUAGES

CANTONESE: Native
ENGLISH: Fluent
MANDARIN: Intermediate