

# Samson LEUNG

## PERSONAL DATA

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OCCUPATION: PhD Student  
ADDRESS: 113 Gist Street, Pittsburgh, PA 15219  
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## EDUCATION

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AUG 2018 - PRESENT PhD student in Mathematical Sciences, Carnegie Mellon University  
*Advisor: Rami Grossberg* *GPA: 4.0/4.0*  
**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*

## PAPERS

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1. Hanf number of the first stability cardinal in AECs  
(32 pages, [arXiv: 2108.00565](https://arxiv.org/abs/2108.00565), [published](#) in Annals of Pure and Applied Logic)
2. Axiomatizing AECs and applications  
(31 pages, [arXiv: 2108.09708](https://arxiv.org/abs/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](https://arxiv.org/abs/2112.01572), submitted to The Journal of Symbolic Logic)
4. Categoricity transfer for tame AECs with amalgamation over sets  
(35 pages, [arXiv: 2203.08956](https://arxiv.org/abs/2203.08956), submitted to The Journal of Mathematical Logic)

## TALKS

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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 GSTMT 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 GSTMT Seminar: Infinitary logics and abstract elementary classes

SEP - OCT, 2021 Model Theory Seminar: Hanf number of the first stability cardinal in AECs

MAR, 2021 GSTMT Seminar: Cube problem for linear orders

NOV 20, 2020 GSTMT Seminar: Some descriptive set theory in model theory

OCT 16, 2020 GSTMT Seminar: Many uncountable models with a linear order

OCT 2020 Model Theory Seminar: Tameness and good  $\lambda$ -frames

MAR - APR, 2020 Model Theory Seminar: Superstable Fields and Groups

FEB 6, 2020 GSS Seminar: "100% correct" forecasting

## CONFERENCES

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- 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

## WORK EXPERIENCE

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- SUMMER II 2022 | Instructor, Carnegie Mellon University  
21127 Concepts of Mathematics
- AUG 2018 - PRESENT | Grader / Teaching Assistant, Carnegie Mellon University  
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
- 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

## LANGUAGES

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- CANTONESE: Native  
ENGLISH: Fluent  
MANDARIN: Intermediate  
ITALIAN: Beginner  
FRENCH: Beginner  
GERMAN: Beginner