## Thomas Lam - Curriculum Vitae

Contact Information	Carnegie Mellon University Department of Mathematical Sciences		(516)-816-1348 tjlam@andrew.cmu.edu	
Education	Carnegie Mellon University B.S. in Mathematical Sciences. Expected May 2023. Cumulative GPA: 3.97			
Honors and Awards	2021 2020 2019 2018	Putnam Honorable Mention Richard A. Moore Award Regeneron Science Talent Searce USAMO Qualifier	ch Finalist	
Publications & Preprints	T. Lam, Boundary Conditions on the Second-Order Singularly-Perturbed Problem on $\mathbb{R}$ . In preparation.			
	T. Lam, Solution to the Number Rotation Puzzle. In preparation.			
Research Experience	2021-2022	<ul> <li>NSF-funded research at Carneg</li> <li>Variations with <b>Dr. Giovanni</b></li> <li>Found novel methodologic</li> <li>Gamma limits of integral transitions</li> </ul>	ie Mellon University in Calculus of <b>Leoni</b> es for determining the existence of functionals associated with phase	
		• Generalized existing result ditions in the second-order one dimension	ts by accounting for boundary con- er singularly perturbed problem in	
Work Experience	2020-2022	<ul> <li>Problem Author and Grader at</li> <li>Crafted challenging math missions for a national con of the USA IMO team</li> </ul>	<b>USAMTS</b> problems and graded problem sub- mpetition to aid with the selection	
	2018-2022	<ul><li>AMC Teacher at <b>Pinnacle Ed</b></li><li>Taught AMC problem-sol- students during summer a</li></ul>	<b>ucation</b> ving mathematics to classes of 4-15 and winter breaks	
	2019-2021	<ul> <li>Content Creator Intern at Exp</li> <li>Designed math tests and r Daily Challenge with Dr. support shifts.</li> </ul>	ii evised course course content for the <b>Po-Shen Loh</b> . Worked customer	
TALKS	• Speaker, CMU Math Club Colloquium, The Number Rotation Puzzle, September 7, 2022			
Upcoming Coursework	* indicates graduate level coursework			
	<ul> <li>□ Advanced Topics in Real Analysis*</li> <li>□ Intro to Differential Equations*</li> <li>□ Category Theory</li> </ul>			

Select Past	* indicates graduate level coursework			
Coursework	<ul> <li>Advanced Real Analysis*</li> <li>Complex Analysis*</li> <li>Fortnered Combinatories*</li> <li>Measure and Integration*</li> <li>Probability*</li> <li>Methematical Studies Alarchar</li> </ul>			
	<ul> <li>A Mathematical Studies Analysis</li> <li>Ordinary Differential Equations</li> <li>Mathematical Studies Analysis</li> <li>Vector Analysis</li> </ul>			
Teaching Experience	Spring2022Teaching Assistant, Vector AnalysisFall2022Teaching Assistant, Mathematical Studies Analysis I			
Outreach	<ul><li>Vice President External of the CMU Math Club</li><li>Problem Writer and Grader for the CMIMC</li></ul>			
Other Skills	Languages: English (fluent), Spanish Programming: Python, LAT <sub>E</sub> X, Java, SML, C, C++			