





Poonam Sahoo

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Education	Acton-Boxborough Regional High School	
2017–Present	Weighted GPA: 4.85/5.0, Unweighted GPA: 4.0/4.0 2019-20 AP Courses: Chemistry, BC Calculus, U.S. History, Computer Science A	
Activities	Science Olympiad • Competitor, Regional Officer	
2017–Present	Competed in several scientific areas on the state and national level Planned teaching material, write tests, and coach underclassmen to compete in regional meets	
	Academic Decathlon • Competitor, Captain	
2017–Present	Won medals in ten subjects on the regional, state and national level	
	MIT PRIMES • Reading Group 	
2019	Guided by MIT graduate student Zhulin Li. Read <i>A Friendly Introduction to Number Theory</i> by Joseph H. Silverman and <i>Probability and Statistics</i> by Morris DeGroot, Mark J. Schervish	
	PRIMES STEP • Student 	
2016–2018	Group research led by MIT lecturer Tanya Khovanova. 2016-17 Project: Variations of Nim and Chomp, 2017-18 Project: Base 3/2	
	Math Team • Competitor	
2018–Present	Competed in monthly regional math meets.	
Research	Minority Voter Distributions and Partisan Gerrymandering	
	 https://arxiv.org/abs/1911.09792 with J. Chen, A. Manne, R. Mendum, A. Yang. Mentored by Professor D. Davis of Swarthmore College. Written at PROMYS 2019. Honorable Mention at JMM Undergraduate Poster Sessions, 2020.	
	On Variants of Nim and Chomp	
	 https://mjum.math.umn.edu/index.php/mjum/article/view/83/44 with J. Ahn, B. Chen, R. Chen, E. Erives, J. Fleming, M. Gerovitch, T. Gopalakrishna, T. Khovanova, N. Malur, N. Polina. Written in PRIMES STEP 2016-17. Published in <i>The Minnesota Journal of Undergraduate Mathematics</i> , 2018-19.	
Summer Programs	Program in Mathematics for Young Scientists • Student	
2018–2019	2018: studied Number Theory, exploration lab on Fractional bases 2019: course on Abstract Algebra, research lab on Gerrymandering	
Volunteering	Acton-Boxborough Math Competition • Head of Human Resources	
2017–Present	Planned, organized, and wrote problems for a middle-school math competition Directed volunteers, kept record of hours, and other logistics	
	Emerson Hospital	
2017	Helped transport patients and materials throughout hospital	
Awards	Honorable Mention Bronze Medal 3rd Place, Mathematics, Division I 2nd Place, Art, Division I AMC 10 Distinguished Honor Roll AMC 12 Distinction AIME Qualifier	Math Prize for Girls, 2019 Math Prize for Girls Olympiad, 2019 Academic Decathlon Nationals, 2019 Academic Decathlon Nationals, 2019 2017-19. Highest score: 145.5 2020. Highest score: 105 2016-20. Highest score: 8