

Return of Organization Exempt From Income Tax

OMB No. 1545-0047

Department of the Treasury
Internal Revenue Service

Under section 501(c), 527, or 4947(a)(1) of the Internal Revenue Code (except private foundations)

Do not enter social security numbers on this form as it may be made public.

Go to www.irs.gov/Form990 for instructions and the latest information.

2024

Open to Public
Inspection

A For the 2024 calendar year, or tax year beginning 01/01/2024 and ending 12/31/2024	
B Check if applicable: ☐ Address change ☐ Name change ☐ Initial return ☐ Final return/terminated ☐ Amended return ☐ Application pending	C Name of organization MATHEMATICAL STAIRCASE Doing business as Number and street (or P.O. box if mail is not delivered to street address) Room/suite 306 Grove Street City or town, state or province, country, and ZIP or foreign postal code Chicopee, MA 01020 F Name and address of principal officer: sarah-marie belcastro PhD 214 Lippincott Avenue, Ardmore, PA 19003 H(a) Is this a group return for subordinates? ☐ Yes ☒ No H(b) Are all subordinates included? ☐ Yes ☐ No If "No," attach a list. See instructions. H(c) Group exemption number
I Tax-exempt status: ☒ 501(c)(3) ☐ 501(c) () (insert no.) ☐ 4947(a)(1) or ☐ 527	D Employer identification number 46-1813949 E Telephone number 720-771-6428 G Gross receipts \$ 625,444
J Website: www.mathstaircase.org	L Year of formation: 2013 M State of legal domicile: MA
K Form of organization: ☒ Corporation ☐ Trust ☐ Association ☐ Other	

Part I Summary

Activities & Governance	1	Briefly describe the organization's mission or most significant activities: To educate mathematically talented secondary and tertiary students in mathematical thinking and writing. The means of providing such education includes, but is not limited to, establishing summer programs for instructing such students.		
	2	Check this box ☐ if the organization discontinued its operations or disposed of more than 25% of its net assets.		
	3	Number of voting members of the governing body (Part VI, line 1a)	3	5
	4	Number of independent voting members of the governing body (Part VI, line 1b)	4	3
	5	Total number of individuals employed in calendar year 2024 (Part V, line 2a)	5	4
	6	Total number of volunteers (estimate if necessary)	6	4
		7a	Total unrelated business revenue from Part VIII, column (C), line 12	7a
b		Net unrelated business taxable income from Form 990-T, Part I, line 11	7b	0
Revenue	8	Contributions and grants (Part VIII, line 1h)	Prior Year 187,273	Current Year 270,172
	9	Program service revenue (Part VIII, line 2g)	356,348	343,934
	10	Investment income (Part VIII, column (A), lines 3, 4, and 7d)	3,094	11,338
	11	Other revenue (Part VIII, column (A), lines 5, 6d, 8c, 9c, 10c, and 11e)	264	0
	12	Total revenue—add lines 8 through 11 (must equal Part VIII, column (A), line 12)	546,979	625,444
Expenses	13	Grants and similar amounts paid (Part IX, column (A), lines 1–3)	0	0
	14	Benefits paid to or for members (Part IX, column (A), line 4)	0	0
	15	Salaries, other compensation, employee benefits (Part IX, column (A), lines 5–10)	74,766	82,037
	16a	Professional fundraising fees (Part IX, column (A), line 11e)	0	0
	b	Total fundraising expenses (Part IX, column (D), line 25)	0	
	17	Other expenses (Part IX, column (A), lines 11a–11d, 11f–24e)	435,786	449,697
	18	Total expenses. Add lines 13–17 (must equal Part IX, column (A), line 25)	510,552	531,734
Net Assets or Fund Balances	19	Revenue less expenses. Subtract line 18 from line 12	36,427	93,710
	20	Total assets (Part X, line 16)	Beginning of Current Year 243,882	End of Year 345,422
	21	Total liabilities (Part X, line 26)	3,492	9,514
	22	Net assets or fund balances. Subtract line 21 from line 20	240,390	335,908

Part II Signature Block

Under penalties of perjury, I declare that I have examined this return, including accompanying schedules and statements, and to the best of my knowledge and belief, it is true, correct, and complete. Declaration of preparer (other than officer) is based on all information of which preparer has any knowledge.

Sign Here	Signature of officer Joan Belcastro, Treasurer		Date	
	Type or print name and title			
Paid Preparer Use Only	Preparer's name	Preparer's signature	Date	Check ☐ if self-employed PTIN
	Firm's name	Firm's EIN		
	Firm's address	Phone no.		

May the IRS discuss this return with the preparer shown above? See instructions ☐ Yes ☐ No

Part III Statement of Program Service AccomplishmentsCheck if Schedule O contains a response or note to any line in this Part III ☐

- 1** Briefly describe the organization's mission: The specific purposes for which the corporation is organized are to educate mathematically talented secondary and tertiary students in mathematical thinking and writing. The means of providing such education includes, but is not limited to, establishing residential summer programs for instructing such students.
- 2** Did the organization undertake any significant program services during the year which were not listed on the prior Form 990 or 990-EZ? ☐ Yes ☒ No
If "Yes," describe these new services on Schedule O.
- 3** Did the organization cease conducting, or make significant changes in how it conducts, any program services? ☐ Yes ☒ No
If "Yes," describe these changes on Schedule O.
- 4** Describe the organization's program service accomplishments for each of its three largest program services, as measured by expenses. Section 501(c)(3) and 501(c)(4) organizations are required to report the amount of grants and allocations to others, the total expenses, and revenue, if any, for each program service reported.

4a (Code:) (Expenses \$ 279,613 including grants of \$ 0) (Revenue \$ 210,981)
MathILy: a residential summer program for mathematically gifted high-school students. Number of students enrolled was 44 in a 5-week program of courses, presentations and leisure activities. Eleven trainees (staff members) also benefitted.

4b (Code:) (Expenses \$ 139,111 including grants of \$ 0) (Revenue \$ 132,953)
MathILy-Er: Similar to MathILy with slightly younger students and who are earlier in their mathematical development. Number of students enrolled was 30 in a 5-week program of courses, presentations and leisure activities. Eight trainees (staff members) also benefitted.

4c (Code:) (Expenses \$ 110,121 including grants of \$ 0) (Revenue \$ 110,947)
MathILy-EST: A Research Experience for Undergraduates (REU) focused on beginning college students. Number of students enrolled was 9 in an 8-week program focused on a program of research, presentations, interactions with the MathILy students and leisure activities. One trainee (staff member) also benefitted.

4d Other program services (Describe on Schedule O.) See Schedule O, Statement 1
 (Expenses \$ 0 including grants of \$ 0) (Revenue \$ 0)

4e Total program service expenses 528,845

Part IV Checklist of Required Schedules

	Yes	No
1 Is the organization described in section 501(c)(3) or 4947(a)(1) (other than a private foundation)? If "Yes," complete Schedule A	1 ✓	
2 Is the organization required to complete Schedule B, Schedule of Contributors? See instructions	2	✓
3 Did the organization engage in direct or indirect political campaign activities on behalf of or in opposition to candidates for public office? If "Yes," complete Schedule C, Part I	3	✓
4 Section 501(c)(3) organizations. Did the organization engage in lobbying activities, or have a section 501(h) election in effect during the tax year? If "Yes," complete Schedule C, Part II	4	✓
5 Is the organization a section 501(c)(4), 501(c)(5), or 501(c)(6) organization that receives membership dues, assessments, or similar amounts as defined in Rev. Proc. 98-19? If "Yes," complete Schedule C, Part III	5	✓
6 Did the organization maintain any donor advised funds or any similar funds or accounts for which donors have the right to provide advice on the distribution or investment of amounts in such funds or accounts? If "Yes," complete Schedule D, Part I	6	✓
7 Did the organization receive or hold a conservation easement, including easements to preserve open space, the environment, historic land areas, or historic structures? If "Yes," complete Schedule D, Part II	7	✓
8 Did the organization maintain collections of works of art, historical treasures, or other similar assets? If "Yes," complete Schedule D, Part III	8	✓
9 Did the organization report an amount in Part X, line 21, for escrow or custodial account liability; serve as a custodian for amounts not listed in Part X; or provide credit counseling, debt management, credit repair, or debt negotiation services? If "Yes," complete Schedule D, Part IV	9	✓
10 Did the organization, directly or through a related organization, hold assets in donor-restricted endowments or in quasi-endowments? If "Yes," complete Schedule D, Part V	10	✓
11 If the organization's answer to any of the following questions is "Yes," then complete Schedule D, Parts VI, VII, VIII, IX, or X, as applicable.		
a Did the organization report an amount for land, buildings, and equipment in Part X, line 10? If "Yes," complete Schedule D, Part VI	11a	✓
b Did the organization report an amount for investments—other securities in Part X, line 12, that is 5% or more of its total assets reported in Part X, line 16? If "Yes," complete Schedule D, Part VII	11b	✓
c Did the organization report an amount for investments—program related in Part X, line 13, that is 5% or more of its total assets reported in Part X, line 16? If "Yes," complete Schedule D, Part VIII	11c	✓
d Did the organization report an amount for other assets in Part X, line 15, that is 5% or more of its total assets reported in Part X, line 16? If "Yes," complete Schedule D, Part IX	11d	✓
e Did the organization report an amount for other liabilities in Part X, line 25? If "Yes," complete Schedule D, Part X	11e	✓
f Did the organization's separate or consolidated financial statements for the tax year include a footnote that addresses the organization's liability for uncertain tax positions under FIN 48 (ASC 740)? If "Yes," complete Schedule D, Part X	11f	✓
12a Did the organization obtain separate, independent audited financial statements for the tax year? If "Yes," complete Schedule D, Parts XI and XII	12a ✓	
b Was the organization included in consolidated, independent audited financial statements for the tax year? If "Yes," and if the organization answered "No" to line 12a, then completing Schedule D, Parts XI and XII is optional	12b	✓
13 Is the organization a school described in section 170(b)(1)(A)(ii)? If "Yes," complete Schedule E	13	✓
14a Did the organization maintain an office, employees, or agents outside of the United States?	14a	✓
b Did the organization have aggregate revenues or expenses of more than \$10,000 from grantmaking, fundraising, business, investment, and program service activities outside the United States, or aggregate foreign investments valued at \$100,000 or more? If "Yes," complete Schedule F, Parts I and IV	14b	✓
15 Did the organization report on Part IX, column (A), line 3, more than \$5,000 of grants or other assistance to or for any foreign organization? If "Yes," complete Schedule F, Parts II and IV	15	✓
16 Did the organization report on Part IX, column (A), line 3, more than \$5,000 of aggregate grants or other assistance to or for foreign individuals? If "Yes," complete Schedule F, Parts III and IV	16	✓
17 Did the organization report a total of more than \$15,000 of expenses for professional fundraising services on Part IX, column (A), lines 6 and 11e? If "Yes," complete Schedule G, Part I. See instructions	17	✓
18 Did the organization report more than \$15,000 total of fundraising event gross income and contributions on Part VIII, lines 1c and 8a? If "Yes," complete Schedule G, Part II	18	✓
19 Did the organization report more than \$15,000 of gross income from gaming activities on Part VIII, line 9a? If "Yes," complete Schedule G, Part III	19	✓
20a Did the organization operate one or more hospital facilities? If "Yes," complete Schedule H	20a	✓
b If "Yes" to line 20a, did the organization attach a copy of its audited financial statements to this return?	20b	
21 Did the organization report more than \$5,000 of grants or other assistance to any domestic organization or domestic government on Part IX, column (A), line 1? If "Yes," complete Schedule I, Parts I and II	21	✓

Part IV Checklist of Required Schedules (continued)

	Yes	No
22 Did the organization report more than \$5,000 of grants or other assistance to or for domestic individuals on Part IX, column (A), line 2? <i>If "Yes," complete Schedule I, Parts I and III</i>	22	✓
23 Did the organization answer "Yes" to Part VII, Section A, line 3, 4, or 5, about compensation of the organization's current and former officers, directors, trustees, key employees, and highest compensated employees? <i>If "Yes," complete Schedule J</i>	23	✓
24a Did the organization have a tax-exempt bond issue with an outstanding principal amount of more than \$100,000 as of the last day of the year, that was issued after December 31, 2002? <i>If "Yes," answer lines 24b through 24d and complete Schedule K. If "No," go to line 25a</i>	24a	✓
b Did the organization invest any proceeds of tax-exempt bonds beyond a temporary period exception?	24b	
c Did the organization maintain an escrow account other than a refunding escrow at any time during the year to defease any tax-exempt bonds?	24c	
d Did the organization act as an "on behalf of" issuer for bonds outstanding at any time during the year?	24d	
25a Section 501(c)(3), 501(c)(4), and 501(c)(29) organizations. Did the organization engage in an excess benefit transaction with a disqualified person during the year? <i>If "Yes," complete Schedule L, Part I</i>	25a	✓
b Is the organization aware that it engaged in an excess benefit transaction with a disqualified person in a prior year, and that the transaction has not been reported on any of the organization's prior Forms 990 or 990-EZ? <i>If "Yes," complete Schedule L, Part I</i>	25b	✓
26 Did the organization report any amount on Part X, line 5 or 22, for receivables from or payables to any current or former officer, director, trustee, key employee, creator or founder, substantial contributor, or 35% controlled entity or family member of any of these persons? <i>If "Yes," complete Schedule L, Part II</i>	26	✓
27 Did the organization provide a grant or other assistance to any current or former officer, director, trustee, key employee, creator or founder, substantial contributor or employee thereof, a grant selection committee member, or to a 35% controlled entity (including an employee thereof) or family member of any of these persons? <i>If "Yes," complete Schedule L, Part III</i>	27	✓
28 Was the organization a party to a business transaction with one of the following parties? (See the Schedule L, Part IV, instructions for applicable filing thresholds, conditions, and exceptions).		
a A current or former officer, director, trustee, key employee, creator or founder, or substantial contributor? <i>If "Yes," complete Schedule L, Part IV</i>	28a	✓
b A family member of any individual described in line 28a? <i>If "Yes," complete Schedule L, Part IV</i>	28b	✓
c A 35% controlled entity of one or more individuals and/or organizations described in line 28a or 28b? <i>If "Yes," complete Schedule L, Part IV</i>	28c	✓
29 Did the organization receive more than \$25,000 in noncash contributions? <i>If "Yes," complete Schedule M</i>	29	✓
30 Did the organization receive contributions of art, historical treasures, or other similar assets, or qualified conservation contributions? <i>If "Yes," complete Schedule M</i>	30	✓
31 Did the organization liquidate, terminate, or dissolve and cease operations? <i>If "Yes," complete Schedule N, Part I</i>	31	✓
32 Did the organization sell, exchange, dispose of, or transfer more than 25% of its net assets? <i>If "Yes," complete Schedule N, Part II</i>	32	✓
33 Did the organization own 100% of an entity disregarded as separate from the organization under Regulations sections 301.7701-2 and 301.7701-3? <i>If "Yes," complete Schedule R, Part I</i>	33	✓
34 Was the organization related to any tax-exempt or taxable entity? <i>If "Yes," complete Schedule R, Part II, III, or IV, and Part V, line 1</i>	34	✓
35a Did the organization have a controlled entity within the meaning of section 512(b)(13)?	35a	✓
b If "Yes" to line 35a, did the organization receive any payment from or engage in any transaction with a controlled entity within the meaning of section 512(b)(13)? <i>If "Yes," complete Schedule R, Part V, line 2</i>	35b	
36 Section 501(c)(3) organizations. Did the organization make any transfers to an exempt non-charitable related organization? <i>If "Yes," complete Schedule R, Part V, line 2</i>	36	✓
37 Did the organization conduct more than 5% of its activities through an entity that is not a related organization and that is treated as a partnership for federal income tax purposes? <i>If "Yes," complete Schedule R, Part VI</i>	37	✓
38 Did the organization complete Schedule O and provide explanations on Schedule O for Part VI, lines 11b and 19? Note: All Form 990 filers are required to complete Schedule O	38	✓

Part V Statements Regarding Other IRS Filings and Tax ComplianceCheck if Schedule O contains a response or note to any line in this Part V ☐

	Yes	No
1a Enter the number reported in box 3 of Form 1096. Enter -0- if not applicable	1a	31
b Enter the number of Forms W-2G included on line 1a. Enter -0- if not applicable	1b	0
c Did the organization comply with backup withholding rules for reportable payments to vendors and reportable gaming (gambling) winnings to prize winners?	1c	

Part V Statements Regarding Other IRS Filings and Tax Compliance (continued)				Yes	No
2a	Enter the number of employees reported on Form W-3, Transmittal of Wage and Tax Statements, filed for the calendar year ending with or within the year covered by this return	2a	4		
b	If at least one is reported on line 2a, did the organization file all required federal employment tax returns?	2b		✓	
3a	Did the organization have unrelated business gross income of \$1,000 or more during the year?	3a			✓
b	If "Yes," has it filed a Form 990-T for this year? If "No," to line 3b, provide an explanation on Schedule O	3b			
4a	At any time during the calendar year, did the organization have an interest in, or a signature or other authority over, a financial account in a foreign country (such as a bank account, securities account, or other financial account)?	4a			✓
b	If "Yes," enter the name of the foreign country _____ See instructions for filing requirements for FinCEN Form 114, Report of Foreign Bank and Financial Accounts (FBAR).				
5a	Was the organization a party to a prohibited tax shelter transaction at any time during the tax year?	5a			✓
b	Did any taxable party notify the organization that it was or is a party to a prohibited tax shelter transaction?	5b			✓
c	If "Yes" to line 5a or 5b, did the organization file Form 8886-T?	5c			
6a	Does the organization have annual gross receipts that are normally greater than \$100,000, and did the organization solicit any contributions that were not tax deductible as charitable contributions?	6a			✓
b	If "Yes," did the organization include with every solicitation an express statement that such contributions or gifts were not tax deductible?	6b			
7	Organizations that may receive deductible contributions under section 170(c).				
a	Did the organization receive a payment in excess of \$75 made partly as a contribution and partly for goods and services provided to the payor?	7a			
b	If "Yes," did the organization notify the donor of the value of the goods or services provided?	7b			
c	Did the organization sell, exchange, or otherwise dispose of tangible personal property for which it was required to file Form 8282?	7c			
d	If "Yes," indicate the number of Forms 8282 filed during the year	7d			
e	Did the organization receive any funds, directly or indirectly, to pay premiums on a personal benefit contract?	7e			
f	Did the organization, during the year, pay premiums, directly or indirectly, on a personal benefit contract?	7f			
g	If the organization received a contribution of qualified intellectual property, did the organization file Form 8899 as required?	7g			
h	If the organization received a contribution of cars, boats, airplanes, or other vehicles, did the organization file a Form 1098-C?	7h			
8	Sponsoring organizations maintaining donor advised funds. Did a donor advised fund maintained by the sponsoring organization have excess business holdings at any time during the year?	8			
9	Sponsoring organizations maintaining donor advised funds.				
a	Did the sponsoring organization make any taxable distributions under section 4966?	9a			
b	Did the sponsoring organization make a distribution to a donor, donor advisor, or related person?	9b			
10	Section 501(c)(7) organizations. Enter:				
a	Initiation fees and capital contributions included on Part VIII, line 12	10a			
b	Gross receipts, included on Form 990, Part VIII, line 12, for public use of club facilities	10b			
11	Section 501(c)(12) organizations. Enter:				
a	Gross income from members or shareholders	11a			
b	Gross income from other sources. (Do not net amounts due or paid to other sources against amounts due or received from them.)	11b			
12a	Section 4947(a)(1) non-exempt charitable trusts. Is the organization filing Form 990 in lieu of Form 1041?	12a			
b	If "Yes," enter the amount of tax-exempt interest received or accrued during the year	12b			
13	Section 501(c)(29) qualified nonprofit health insurance issuers.				
a	Is the organization licensed to issue qualified health plans in more than one state? Note: See the instructions for additional information the organization must report on Schedule O.	13a			
b	Enter the amount of reserves the organization is required to maintain by the states in which the organization is licensed to issue qualified health plans	13b			
c	Enter the amount of reserves on hand	13c			
14a	Did the organization receive any payments for indoor tanning services during the tax year?	14a			✓
b	If "Yes," has it filed a Form 720 to report these payments? If "No," provide an explanation on Schedule O	14b			
15	Is the organization subject to the section 4960 tax on payment(s) of more than \$1,000,000 in remuneration or excess parachute payment(s) during the year? If "Yes," see the instructions and file Form 4720, Schedule N.	15			✓
16	Is the organization an educational institution subject to the section 4968 excise tax on net investment income? If "Yes," complete Form 4720, Schedule O.	16			✓
17	Section 501(c)(21) organizations. Did the trust, or any disqualified or other person, engage in any activities that would result in the imposition of an excise tax under section 4951, 4952, or 4953? If "Yes," complete Form 6069.	17			

Part VI Governance, Management, and Disclosure. For each "Yes" response to lines 2 through 7b below, and for a "No" response to line 8a, 8b, or 10b below, describe the circumstances, processes, or changes on Schedule O. See instructions. Check if Schedule O contains a response or note to any line in this Part VI ☒

Section A. Governing Body and Management

	Yes	No
1a Enter the number of voting members of the governing body at the end of the tax year 1a 5 If there are material differences in voting rights among members of the governing body, or if the governing body delegated broad authority to an executive committee or similar committee, explain on Schedule O.		
b Enter the number of voting members included on line 1a, above, who are independent 1b 3		
2 Did any officer, director, trustee, or key employee have a family relationship or a business relationship with any other officer, director, trustee, or key employee? 2	☒	
3 Did the organization delegate control over management duties customarily performed by or under the direct supervision of officers, directors, trustees, or key employees to a management company or other person? 3		☒
4 Did the organization make any significant changes to its governing documents since the prior Form 990 was filed? 4		☒
5 Did the organization become aware during the year of a significant diversion of the organization's assets? 5		☒
6 Did the organization have members or stockholders? 6		☒
7a Did the organization have members, stockholders, or other persons who had the power to elect or appoint one or more members of the governing body? 7a		☒
b Are any governance decisions of the organization reserved to (or subject to approval by) members, stockholders, or persons other than the governing body? 7b		☒
8 Did the organization contemporaneously document the meetings held or written actions undertaken during the year by the following:		
a The governing body? 8a	☒	
b Each committee with authority to act on behalf of the governing body? 8b	☒	
9 Is there any officer, director, trustee, or key employee listed in Part VII, Section A, who cannot be reached at the organization's mailing address? If "Yes," provide the names and addresses on Schedule O 9	☒	

Section B. Policies (This Section B requests information about policies not required by the Internal Revenue Code.)

	Yes	No
10a Did the organization have local chapters, branches, or affiliates? 10a		☒
b If "Yes," did the organization have written policies and procedures governing the activities of such chapters, affiliates, and branches to ensure their operations are consistent with the organization's exempt purposes? 10b		
11a Has the organization provided a complete copy of this Form 990 to all members of its governing body before filing the form? 11a		☒
b Describe on Schedule O the process, if any, used by the organization to review this Form 990.		
12a Did the organization have a written conflict of interest policy? If "No," go to line 13 12a	☒	
b Were officers, directors, or trustees, and key employees required to disclose annually interests that could give rise to conflicts? 12b	☒	
c Did the organization regularly and consistently monitor and enforce compliance with the policy? If "Yes," describe on Schedule O how this was done 12c	☒	
13 Did the organization have a written whistleblower policy? 13	☒	
14 Did the organization have a written document retention and destruction policy? 14	☒	
15 Did the process for determining compensation of the following persons include a review and approval by independent persons, comparability data, and contemporaneous substantiation of the deliberation and decision?		
a The organization's CEO, Executive Director, or top management official 15a		☒
b Other officers or key employees of the organization 15b		☒
If "Yes" to line 15a or 15b, describe the process on Schedule O. See instructions.		
16a Did the organization invest in, contribute assets to, or participate in a joint venture or similar arrangement with a taxable entity during the year? 16a		☒
b If "Yes," did the organization follow a written policy or procedure requiring the organization to evaluate its participation in joint venture arrangements under applicable federal tax law, and take steps to safeguard the organization's exempt status with respect to such arrangements? 16b		

Section C. Disclosure

- 17** List the states with which a copy of this Form 990 is required to be filed **MA**
- 18** Section 6104 requires an organization to make its Forms 1023 (1024 or 1024-A, if applicable), 990, and 990-T (section 501(c)(3)s only) available for public inspection. Indicate how you made these available. Check all that apply.
☒ Own website ☒ Another's website ☒ Upon request ☐ Other (explain on Schedule O)
- 19** Describe on Schedule O whether (and if so, how) the organization made its governing documents, conflict of interest policy, and financial statements available to the public during the tax year.
- 20** State the name, address, and telephone number of the person who possesses the organization's books and records.

sarah-marie belcastro PhD, (413)341-1373

214 Lippincott Ave, Ardmore, PA 19003

Check if Schedule O contains a response or note to any line in this Part VII ☒

☐ Check this box if neither the organization nor any related organization compensated any current officer, director, or trustee.

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[illegible]

3	Did the organization list any former officer, director, trustee, key employee, or highest compensated employee on line 1a? <i>If "Yes," complete Schedule J for such individual</i>	3	✓
4	For any individual listed on line 1a, is the sum of reportable compensation and other compensation from the organization and related organizations greater than \$150,000? <i>If "Yes," complete Schedule J for such individual</i>	4	✓
5	Did any person listed on line 1a receive or accrue compensation from any unrelated organization or individual for services rendered to the organization? <i>If "Yes," complete Schedule J for such person</i>	5	✓

1 Complete this table for your five highest compensated independent contractors that received more than \$100,000 of compensation from the organization. Report compensation for the calendar year ending with or within the organization's tax year.

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Part VIII Statement of RevenueCheck if Schedule O contains a response or note to any line in this Part VIII ☐

				(A) Total revenue	(B) Related or exempt function revenue	(C) Unrelated business revenue	(D) Revenue excluded from tax under sections 512-514
Contributions, Gifts, Grants, and Other Similar Amounts	1a	Federated campaigns	1a	0			
	b	Membership dues	1b	0			
	c	Fundraising events	1c	0			
	d	Related organizations	1d	0			
	e	Government grants (contributions)	1e	146,746			
	f	All other contributions, gifts, grants, and similar amounts not included above	1f	123,426			
	g	Noncash contributions included in lines 1a-1f	1g	\$ 0			
	h	Total. Add lines 1a-1f		270,172			
Program Service Revenue				Business Code			
	2a	MathLy Student Fees	611699	210,981	210,981	0	0
	b	MathLy-Er Student Fees	611699	132,953	132,953	0	0
	c						
	d						
	e						
	f	All other program service revenue . .		0	0	0	0
g	Total. Add lines 2a-2f		343,934				
Other Revenue	3	Investment income (including dividends, interest, and other similar amounts)		11,338	11,338	0	0
	4	Income from investment of tax-exempt bond proceeds		0	0	0	0
	5	Royalties		0	0	0	0
	6a	Gross rents	(i) Real (ii) Personal				
	b	Less: rental expenses					
	c	Rental income or (loss)		0	0		
	d	Net rental income or (loss)					
	7a	Gross amount from sales of assets other than inventory	(i) Securities (ii) Other				
	b	Less: cost or other basis and sales expenses . .					
	c	Gain or (loss)		0	0		
	d	Net gain or (loss)					
	8a	Gross income from fundraising events (not including \$0 of contributions reported on line 1c). See Part IV, line 18					
	b	Less: direct expenses					
	c	Net income or (loss) from fundraising events					
	9a	Gross income from gaming activities. See Part IV, line 19 . .					
	b	Less: direct expenses					
	c	Net income or (loss) from gaming activities					
	10a	Gross sales of inventory, less returns and allowances					
	b	Less: cost of goods sold					
c	Net income or (loss) from sales of inventory						
Miscellaneous Revenue				Business Code			
	11a						
	b						
	c						
	d	All other revenue					
e	Total. Add lines 11a-11d			0			
12	Total revenue. See instructions			625,444	355,272	0	0

Part IX Statement of Functional Expenses

Section 501(c)(3) and 501(c)(4) organizations must complete all columns. All other organizations must complete column (A).

Check if Schedule O contains a response or note to any line in this Part IX ☐**Do not include amounts reported on lines 6b, 7b, 8b, 9b, and 10b of Part VIII.**

	(A) Total expenses	(B) Program service expenses	(C) Management and general expenses	(D) Fundraising expenses
1 Grants and other assistance to domestic organizations and domestic governments. See Part IV, line 21	0	0		
2 Grants and other assistance to domestic individuals. See Part IV, line 22	0	0		
3 Grants and other assistance to foreign organizations, foreign governments, and foreign individuals. See Part IV, lines 15 and 16	0	0		
4 Benefits paid to or for members	0	0		
5 Compensation of current officers, directors, trustees, and key employees	49,140	49,140	0	0
6 Compensation not included above to disqualified persons (as defined under section 4958(f)(1)) and persons described in section 4958(c)(3)(B)	0	0	0	0
7 Other salaries and wages	26,733	26,733	0	0
8 Pension plan accruals and contributions (include section 401(k) and 403(b) employer contributions)	0	0	0	0
9 Other employee benefits	0	0	0	0
10 Payroll taxes	6,164	6,164	0	0
11 Fees for services (nonemployees):				
a Management	0	0	0	0
b Legal	0	0	0	0
c Accounting	1,950	0	1,950	0
d Lobbying	0	0	0	0
e Professional fundraising services. See Part IV, line 17				
f Investment management fees	0	0	0	0
g Other. (If line 11g amount exceeds 10% of line 25, column (A), amount, list line 11g expenses on Schedule O.)	0	0	0	0
12 Advertising and promotion	265	265	0	0
13 Office expenses	8,602	7,663	939	
14 Information technology	0	0	0	0
15 Royalties	0	0	0	0
16 Occupancy	0	0	0	0
17 Travel	20,552	20,552	0	0
18 Payments of travel or entertainment expenses for any federal, state, or local public officials	0	0	0	0
19 Conferences, conventions, and meetings	0	0	0	0
20 Interest	0	0	0	0
21 Payments to affiliates	0	0	0	0
22 Depreciation, depletion, and amortization	0	0	0	0
23 Insurance	3,746	3,746	0	0
24 Other expenses. Itemize expenses not covered above. (List miscellaneous expenses on line 24e. If line 24e amount exceeds 10% of line 25, column (A), amount, list line 24e expenses on Schedule O.)				
a <u>Facilities</u>	276,055	276,055	0	0
b <u>Contracted Services</u>	93,193	93,193	0	0
c <u>REU Stipends</u>	44,496	44,496	0	0
d <u>Background Checks</u>	838	838	0	0
e All other expenses				
25 Total functional expenses. Add lines 1 through 24e	531,734	528,845	2,889	0
26 Joint costs. Complete this line only if the organization reported in column (B) joint costs from a combined educational campaign and fundraising solicitation. Check here ☐ if following SOP 98-2 (ASC 958-720)				

Part X Balance SheetCheck if Schedule O contains a response or note to any line in this Part X ☐

		(A) Beginning of year		(B) End of year
Assets	1 Cash—non-interest-bearing	5,054	1	44,004
	2 Savings and temporary cash investments	237,112	2	301,418
	3 Pledges and grants receivable, net		3	0
	4 Accounts receivable, net		4	0
	5 Loans and other receivables from any current or former officer, director, trustee, key employee, creator or founder, substantial contributor, or 35% controlled entity or family member of any of these persons		5	0
	6 Loans and other receivables from other disqualified persons (as defined under section 4958(f)(1)), and persons described in section 4958(c)(3)(B)		6	0
	7 Notes and loans receivable, net		7	0
	8 Inventories for sale or use		8	0
	9 Prepaid expenses and deferred charges	1,716	9	0
	10a Land, buildings, and equipment: cost or other basis. Complete Part VI of Schedule D	10a		
	b Less: accumulated depreciation	10b	10c	
	11 Investments—publicly traded securities		11	0
	12 Investments—other securities. See Part IV, line 11		12	0
	13 Investments—program-related. See Part IV, line 11		13	0
	14 Intangible assets		14	0
	15 Other assets. See Part IV, line 11		15	0
16 Total assets. Add lines 1 through 15 (must equal line 33)	243,882	16	345,422	
Liabilities	17 Accounts payable and accrued expenses	3,492	17	9,514
	18 Grants payable		18	0
	19 Deferred revenue		19	0
	20 Tax-exempt bond liabilities		20	0
	21 Escrow or custodial account liability. Complete Part IV of Schedule D		21	0
	22 Loans and other payables to any current or former officer, director, trustee, key employee, creator or founder, substantial contributor, or 35% controlled entity or family member of any of these persons		22	0
	23 Secured mortgages and notes payable to unrelated third parties		23	0
	24 Unsecured notes and loans payable to unrelated third parties		24	0
	25 Other liabilities (including federal income tax, payables to related third parties, and other liabilities not included on lines 17–24). Complete Part X of Schedule D		25	
	26 Total liabilities. Add lines 17 through 25	3,492	26	9,514
Net Assets or Fund Balances	Organizations that follow FASB ASC 958, check here ☒ and complete lines 27, 28, 32, and 33.			
	27 Net assets without donor restrictions	240,390	27	335,908
	28 Net assets with donor restrictions	0	28	0
	Organizations that do not follow FASB ASC 958, check here ☐ and complete lines 29 through 33.			
	29 Capital stock or trust principal, or current funds		29	
	30 Paid-in or capital surplus, or land, building, or equipment fund		30	
	31 Retained earnings, endowment, accumulated income, or other funds		31	
	32 Total net assets or fund balances	240,390	32	335,908
33 Total liabilities and net assets/fund balances	243,882	33	345,422	

Part XI Reconciliation of Net AssetsCheck if Schedule O contains a response or note to any line in this Part XI ☐

1	Total revenue (must equal Part VIII, column (A), line 12)	1	625,444
2	Total expenses (must equal Part IX, column (A), line 25)	2	531,734
3	Revenue less expenses. Subtract line 2 from line 1	3	93,710
4	Net assets or fund balances at beginning of year (must equal Part X, line 32, column (A))	4	240,390
5	Net unrealized gains (losses) on investments	5	0
6	Donated services and use of facilities	6	0
7	Investment expenses	7	0
8	Prior period adjustments	8	1,808
9	Other changes in net assets or fund balances (explain on Schedule O)	9	0
10	Net assets or fund balances at end of year. Combine lines 3 through 9 (must equal Part X, line 32, column (B))	10	335,908

Part XII Financial Statements and ReportingCheck if Schedule O contains a response or note to any line in this Part XII ☐

	Yes	No
1 Accounting method used to prepare the Form 990: ☐ Cash ☒ Accrual ☐ Other _____ If the organization changed its method of accounting from a prior year or checked "Other," explain on Schedule O.		
2a Were the organization's financial statements compiled or reviewed by an independent accountant? If "Yes," check a box below to indicate whether the financial statements for the year were compiled or reviewed on a separate basis, consolidated basis, or both. ☐ Separate basis ☐ Consolidated basis ☐ Both consolidated and separate basis		✓
b Were the organization's financial statements audited by an independent accountant? If "Yes," check a box below to indicate whether the financial statements for the year were audited on a separate basis, consolidated basis, or both. ☒ Separate basis ☐ Consolidated basis ☐ Both consolidated and separate basis	✓	
c If "Yes" to line 2a or 2b, does the organization have a committee that assumes responsibility for oversight of the audit, review, or compilation of its financial statements and selection of an independent accountant? If the organization changed either its oversight process or selection process during the tax year, explain on Schedule O.	✓	
3a As a result of a federal award, was the organization required to undergo an audit or audits as set forth in the Uniform Guidance, 2 C.F.R. Part 200, Subpart F?		✓
b If "Yes," did the organization undergo the required audit or audits? If the organization did not undergo the required audit or audits, explain why on Schedule O and describe any steps taken to undergo such audits		

SCHEDULE A
(Form 990)

Department of the Treasury
Internal Revenue Service

Public Charity Status and Public Support

Complete if the organization is a section 501(c)(3) organization or a section 4947(a)(1) nonexempt charitable trust.

Attach to Form 990 or Form 990-EZ.

Go to www.irs.gov/Form990 for instructions and the latest information.

OMB No. 1545-0047

2024

Open to Public
Inspection

Name of the organization

MATHEMATICAL STAIRCASE

Employer identification number

46-1813949

Part I Reason for Public Charity Status. (All organizations must complete this part.) See instructions.

The organization is not a private foundation because it is: (For lines 1 through 12, check only one box.)

- 1 ☐ A church, convention of churches, or association of churches described in **section 170(b)(1)(A)(i)**.
- 2 ☐ A school described in **section 170(b)(1)(A)(ii)**. (Attach Schedule E (Form 990).)
- 3 ☐ A hospital or a cooperative hospital service organization described in **section 170(b)(1)(A)(iii)**.
- 4 ☐ A medical research organization operated in conjunction with a hospital described in **section 170(b)(1)(A)(iii)**. Enter the hospital's name, city, and state: _____
- 5 ☐ An organization operated for the benefit of a college or university owned or operated by a governmental unit described in **section 170(b)(1)(A)(iv)**. (Complete Part II.)
- 6 ☐ A federal, state, or local government or governmental unit described in **section 170(b)(1)(A)(v)**.
- 7 ☐ An organization that normally receives a substantial part of its support from a governmental unit or from the general public described in **section 170(b)(1)(A)(vi)**. (Complete Part II.)
- 8 ☐ A community trust described in **section 170(b)(1)(A)(vii)**. (Complete Part II.)
- 9 ☐ An agricultural research organization described in **section 170(b)(1)(A)(ix)** operated in conjunction with a land-grant college or university or a non-land-grant college of agriculture (see instructions). Enter the name, city, and state of the college or university: _____
- 10 ☒ An organization that normally receives (1) more than 33¹/₃% of its support from contributions, membership fees, and gross receipts from activities related to its exempt functions, subject to certain exceptions; and (2) no more than 33¹/₃% of its support from gross investment income and unrelated business taxable income (less section 511 tax) from businesses acquired by the organization after June 30, 1975. See **section 509(a)(2)**. (Complete Part III.)
- 11 ☐ An organization organized and operated exclusively to test for public safety. See **section 509(a)(4)**.
- 12 ☐ An organization organized and operated exclusively for the benefit of, to perform the functions of, or to carry out the purposes of one or more publicly supported organizations described in **section 509(a)(1)** or **section 509(a)(2)**. See **section 509(a)(3)**. Check the box on lines 12a through 12d that describes the type of supporting organization and complete lines 12e, 12f, and 12g.
 - a ☐ **Type I.** A supporting organization operated, supervised, or controlled by its supported organization(s), typically by giving the supported organization(s) the power to regularly appoint or elect a majority of the directors or trustees of the supporting organization. **You must complete Part IV, Sections A and B.**
 - b ☐ **Type II.** A supporting organization supervised or controlled in connection with its supported organization(s), by having control or management of the supporting organization vested in the same persons that control or manage the supported organization(s). **You must complete Part IV, Sections A and C.**
 - c ☐ **Type III functionally integrated.** A supporting organization operated in connection with, and functionally integrated with, its supported organization(s) (see instructions). **You must complete Part IV, Sections A, D, and E.**
 - d ☐ **Type III non-functionally integrated.** A supporting organization operated in connection with its supported organization(s) that is not functionally integrated. The organization generally must satisfy a distribution requirement and an attentiveness requirement (see instructions). **You must complete Part IV, Sections A and D, and Part V.**
 - e ☐ Check this box if the organization received a written determination from the IRS that it is a Type I, Type II, Type III functionally integrated, or Type III non-functionally integrated supporting organization.
- f Enter the number of supported organizations
- g Provide the following information about the supported organization(s).

(i) Name of supported organization	(ii) EIN	(iii) Type of organization (described on lines 1–10 above (see instructions))	(iv) Is the organization listed in your governing document?		(v) Amount of monetary support (see instructions)	(vi) Amount of other support (see instructions)
			Yes	No		
(A)						
(B)						
(C)						
(D)						
(E)						
Total						

Part II Support Schedule for Organizations Described in Sections 170(b)(1)(A)(iv) and 170(b)(1)(A)(vi)

(Complete only if you checked the box on line 5, 7, or 8 of Part I or if the organization failed to qualify under Part III. If the organization fails to qualify under the tests listed below, please complete Part III.)

Section A. Public Support

Calendar year (or fiscal year beginning in)	(a) 2020	(b) 2021	(c) 2022	(d) 2023	(e) 2024	(f) Total
1 Gifts, grants, contributions, and membership fees received. (Do not include any "unusual grants.")						
2 Tax revenues levied for the organization's benefit and either paid to or expended on its behalf						
3 The value of services or facilities furnished by a governmental unit to the organization without charge						
4 Total. Add lines 1 through 3						
5 The portion of total contributions by each person (other than a governmental unit or publicly supported organization) included on line 1 that exceeds 2% of the amount shown on line 11, column (f)						
6 Public support. Subtract line 5 from line 4						

Section B. Total Support

Calendar year (or fiscal year beginning in)	(a) 2020	(b) 2021	(c) 2022	(d) 2023	(e) 2024	(f) Total
7 Amounts from line 4						
8 Gross income from interest, dividends, payments received on securities loans, rents, royalties, and income from similar sources						
9 Net income from unrelated business activities, whether or not the business is regularly carried on						
10 Other income. Do not include gain or loss from the sale of capital assets (Explain in Part VI.)						
11 Total support. Add lines 7 through 10						
12 Gross receipts from related activities, etc. (see instructions)					12	
13 First 5 years. If the Form 990 is for the organization's first, second, third, fourth, or fifth tax year as a section 501(c)(3) organization, check this box and stop here						☐

Section C. Computation of Public Support Percentage

14 Public support percentage for 2024 (line 6, column (f), divided by line 11, column (f))	14	%
15 Public support percentage from 2023 Schedule A, Part II, line 14	15	%
16a 33¹/₃% support test—2024. If the organization did not check the box on line 13, and line 14 is 33 ¹ / ₃ % or more, check this box and stop here . The organization qualifies as a publicly supported organization		☐
b 33¹/₃% support test—2023. If the organization did not check a box on line 13 or 16a, and line 15 is 33 ¹ / ₃ % or more, check this box and stop here . The organization qualifies as a publicly supported organization		☐
17a 10%-facts-and-circumstances test—2024. If the organization did not check a box on line 13, 16a, or 16b, and line 14 is 10% or more, and if the organization meets the facts-and-circumstances test, check this box and stop here . Explain in Part VI how the organization meets the facts-and-circumstances test. The organization qualifies as a publicly supported organization		☐
b 10%-facts-and-circumstances test—2023. If the organization did not check a box on line 13, 16a, 16b, or 17a, and line 15 is 10% or more, and if the organization meets the facts-and-circumstances test, check this box and stop here . Explain in Part VI how the organization meets the facts-and-circumstances test. The organization qualifies as a publicly supported organization		☐
18 Private foundation. If the organization did not check a box on line 13, 16a, 16b, 17a, or 17b, check this box and see instructions		☐

Part III Support Schedule for Organizations Described in Section 509(a)(2)

(Complete only if you checked the box on line 10 of Part I or if the organization failed to qualify under Part II.
If the organization fails to qualify under the tests listed below, please complete Part II.)

Section A. Public Support

Calendar year (or fiscal year beginning in)	(a) 2020	(b) 2021	(c) 2022	(d) 2023	(e) 2024	(f) Total
1 Gifts, grants, contributions, and membership fees received. (Do not include any "unusual grants.")	53,374	65,997	143,485	187,273	281,509	731,638
2 Gross receipts from admissions, merchandise sold or services performed, or facilities furnished in any activity that is related to the organization's tax-exempt purpose	142,125	156,819	351,389	356,348	343,934	1,350,615
3 Gross receipts from activities that are not an unrelated trade or business under section 513	0	0	0	0	0	0
4 Tax revenues levied for the organization's benefit and either paid to or expended on its behalf	0	0	0	0	0	0
5 The value of services or facilities furnished by a governmental unit to the organization without charge	0	0	0	0	0	0
6 Total. Add lines 1 through 5	195,499	222,816	494,874	543,621	625,443	2,082,253
7a Amounts included on lines 1, 2, and 3 received from disqualified persons	2,000	6,744	4,500	9,500	4,500	27,244
b Amounts included on lines 2 and 3 received from other than disqualified persons that exceed the greater of \$5,000 or 1% of the amount on line 13 for the year	0	0	0	0	0	0
c Add lines 7a and 7b	2,000	6,744	4,500	9,500	4,500	27,244
8 Public support. (Subtract line 7c from line 6.)						2,055,009

Section B. Total Support

Calendar year (or fiscal year beginning in)	(a) 2020	(b) 2021	(c) 2022	(d) 2023	(e) 2024	(f) Total
9 Amounts from line 6	195,499	222,816	494,874	543,621	625,443	2,082,253
10a Gross income from interest, dividends, payments received on securities loans, rents, royalties, and income from similar sources	0	0	0	3,094	11,338	14,432
b Unrelated business taxable income (less section 511 taxes) from businesses acquired after June 30, 1975	0	0	0	0	0	0
c Add lines 10a and 10b	0	0	0	3,094	11,338	14,432
11 Net income from unrelated business activities not included on line 10b, whether or not the business is regularly carried on	0	0	0	0	0	0
12 Other income. Do not include gain or loss from the sale of capital assets (Explain in Part VI.)	0	0	0	264	0	264
13 Total support. (Add lines 9, 10c, 11, and 12.)	195,499	222,816	494,874	546,979	636,781	2,096,949
14 First 5 years. If the Form 990 is for the organization's first, second, third, fourth, or fifth tax year as a section 501(c)(3) organization, check this box and stop here ☐						

Section C. Computation of Public Support Percentage

15 Public support percentage for 2024 (line 8, column (f), divided by line 13, column (f))	15	98 %
16 Public support percentage from 2023 Schedule A, Part III, line 15	16	98.44 %

Section D. Computation of Investment Income Percentage

17 Investment income percentage for 2024 (line 10c, column (f), divided by line 13, column (f))	17	0.69 %
18 Investment income percentage from 2023 Schedule A, Part III, line 17	18	0.17 %

- 19a 33¹/₃% support tests—2024.** If the organization did not check the box on line 14, and line 15 is more than 33¹/₃%, and line 17 is not more than 33¹/₃%, check this box and **stop here**. The organization qualifies as a publicly supported organization . . . ☒
- b 33¹/₃% support tests—2023.** If the organization did not check a box on line 14 or line 19a, and line 16 is more than 33¹/₃%, and line 18 is not more than 33¹/₃%, check this box and **stop here**. The organization qualifies as a publicly supported organization . . . ☐
- 20 Private foundation.** If the organization did not check a box on line 14, 19a, or 19b, check this box and see instructions . . . ☐

Part IV Supporting Organizations

(Complete only if you checked a box on line 12 of Part I. If you checked box 12a, Part I, complete Sections A and B. If you checked box 12b, Part I, complete Sections A and C. If you checked box 12c, Part I, complete Sections A, D, and E. If you checked box 12d, Part I, complete Sections A and D, and complete Part V.)

Section A. All Supporting Organizations

	Yes	No
1 Are all of the organization's supported organizations listed by name in the organization's governing documents? <i>If "No," describe in Part VI how the supported organizations are designated. If designated by class or purpose, describe the designation. If historic and continuing relationship, explain.</i>		
2 Did the organization have any supported organization that does not have an IRS determination of status under section 509(a)(1) or (2)? <i>If "Yes," explain in Part VI how the organization determined that the supported organization was described in section 509(a)(1) or (2).</i>		
3a Did the organization have a supported organization described in section 501(c)(4), (5), or (6)? <i>If "Yes," answer lines 3b and 3c below.</i>		
b Did the organization confirm that each supported organization qualified under section 501(c)(4), (5), or (6) and satisfied the public support tests under section 509(a)(2)? <i>If "Yes," describe in Part VI when and how the organization made the determination.</i>		
c Did the organization ensure that all support to such organizations was used exclusively for section 170(c)(2)(B) purposes? <i>If "Yes," explain in Part VI what controls the organization put in place to ensure such use.</i>		
4a Was any supported organization not organized in the United States ("foreign supported organization")? <i>If "Yes," and if you checked box 12a or 12b in Part I, answer lines 4b and 4c below.</i>		
b Did the organization have ultimate control and discretion in deciding whether to make grants to the foreign supported organization? <i>If "Yes," describe in Part VI how the organization had such control and discretion despite being controlled or supervised by or in connection with its supported organizations.</i>		
c Did the organization support any foreign supported organization that does not have an IRS determination under sections 501(c)(3) and 509(a)(1) or (2)? <i>If "Yes," explain in Part VI what controls the organization used to ensure that all support to the foreign supported organization was used exclusively for section 170(c)(2)(B) purposes.</i>		
5a Did the organization add, substitute, or remove any supported organizations during the tax year? <i>If "Yes," answer lines 5b and 5c below (if applicable). Also, provide detail in Part VI, including (i) the names and EIN numbers of the supported organizations added, substituted, or removed; (ii) the reasons for each such action; (iii) the authority under the organization's organizing document authorizing such action; and (iv) how the action was accomplished (such as by amendment to the organizing document).</i>		
b Type I or Type II only. Was any added or substituted supported organization part of a class already designated in the organization's organizing document?		
c Substitutions only. Was the substitution the result of an event beyond the organization's control?		
6 Did the organization provide support (whether in the form of grants or the provision of services or facilities) to anyone other than (i) its supported organizations, (ii) individuals that are part of the charitable class benefited by one or more of its supported organizations, or (iii) other supporting organizations that also support or benefit one or more of the filing organization's supported organizations? <i>If "Yes," provide detail in Part VI.</i>		
7 Did the organization provide a grant, loan, compensation, or other similar payment to a substantial contributor (as defined in section 4958(c)(3)(C)), a family member of a substantial contributor, or a 35% controlled entity with regard to a substantial contributor? <i>If "Yes," complete Part I of Schedule L (Form 990).</i>		
8 Did the organization make a loan to a disqualified person (as defined in section 4958) not described on line 7? <i>If "Yes," complete Part I of Schedule L (Form 990).</i>		
9a Was the organization controlled directly or indirectly at any time during the tax year by one or more disqualified persons, as defined in section 4946 (other than foundation managers and organizations described in section 509(a)(1) or (2))? <i>If "Yes," provide detail in Part VI.</i>		
b Did one or more disqualified persons (as defined on line 9a) hold a controlling interest in any entity in which the supporting organization had an interest? <i>If "Yes," provide detail in Part VI.</i>		
c Did a disqualified person (as defined on line 9a) have an ownership interest in, or derive any personal benefit from, assets in which the supporting organization also had an interest? <i>If "Yes," provide detail in Part VI.</i>		
10a Was the organization subject to the excess business holdings rules of section 4943 because of section 4943(f) (regarding certain Type II supporting organizations, and all Type III non-functionally integrated supporting organizations)? <i>If "Yes," answer line 10b below.</i>		
b Did the organization have any excess business holdings in the tax year? <i>(Use Schedule C, Form 4720, to determine whether the organization had excess business holdings.)</i>		

Part IV Supporting Organizations (continued)

	Yes	No
11 Has the organization accepted a gift or contribution from any of the following persons?		
a A person who directly or indirectly controls, either alone or together with persons described on lines 11b and 11c below, the governing body of a supported organization?		
11a		
b A family member of a person described on line 11a above?		
11b		
c A 35% controlled entity of a person described on line 11a or 11b above? If "Yes" to line 11a, 11b, or 11c, provide detail in Part VI .		
11c		

Section B. Type I Supporting Organizations

	Yes	No
1 Did the governing body, members of the governing body, officers acting in their official capacity, or membership of one or more supported organizations have the power to regularly appoint or elect at least a majority of the organization's officers, directors, or trustees at all times during the tax year? If "No," describe in Part VI how the supported organization(s) effectively operated, supervised, or controlled the organization's activities. If the organization had more than one supported organization, describe how the powers to appoint and/or remove officers, directors, or trustees were allocated among the supported organizations and what conditions or restrictions, if any, applied to such powers during the tax year.		
1		
2 Did the organization operate for the benefit of any supported organization other than the supported organization(s) that operated, supervised, or controlled the supporting organization? If "Yes," explain in Part VI how providing such benefit carried out the purposes of the supported organization(s) that operated, supervised, or controlled the supporting organization.		
2		

Section C. Type II Supporting Organizations

	Yes	No
1 Were a majority of the organization's directors or trustees during the tax year also a majority of the directors or trustees of each of the organization's supported organization(s)? If "No," describe in Part VI how control or management of the supporting organization was vested in the same persons that controlled or managed the supported organization(s).		
1		

Section D. All Type III Supporting Organizations

	Yes	No
1 Did the organization provide to each of its supported organizations, by the last day of the fifth month of the organization's tax year, (i) a written notice describing the type and amount of support provided during the prior tax year, (ii) a copy of the Form 990 that was most recently filed as of the date of notification, and (iii) copies of the organization's governing documents in effect on the date of notification, to the extent not previously provided?		
1		
2 Were any of the organization's officers, directors, or trustees either (i) appointed or elected by the supported organization(s), or (ii) serving on the governing body of a supported organization? If "No," explain in Part VI how the organization maintained a close and continuous working relationship with the supported organization(s).		
2		
3 By reason of the relationship described on line 2, above, did the organization's supported organizations have a significant voice in the organization's investment policies and in directing the use of the organization's income or assets at all times during the tax year? If "Yes," describe in Part VI the role the organization's supported organizations played in this regard.		
3		

Section E. Type III Functionally Integrated Supporting Organizations

1 Check the box next to the method that the organization used to satisfy the Integral Part Test during the year (see instructions).			
a ☐ The organization satisfied the Activities Test. Complete line 2 below.			
b ☐ The organization is the parent of each of its supported organizations. Complete line 3 below.			
c ☐ The organization supported a governmental entity. Describe in Part VI how you supported a governmental entity (see instructions).			
2 Activities Test. Answer lines 2a and 2b below.			
a Did substantially all of the organization's activities during the tax year directly further the exempt purposes of the supported organization(s) to which the organization was responsive? If "Yes," then in Part VI identify those supported organizations and explain how these activities directly furthered their exempt purposes, how the organization was responsive to those supported organizations, and how the organization determined that these activities constituted substantially all of its activities.			
2a			
b Did the activities described on line 2a, above, constitute activities that, but for the organization's involvement, one or more of the organization's supported organization(s) would have been engaged in? If "Yes," explain in Part VI the reasons for the organization's position that its supported organization(s) would have engaged in these activities but for the organization's involvement.			
2b			
3 Parent of Supported Organizations. Answer lines 3a and 3b below.			
a Did the organization have the power to regularly appoint or elect a majority of the officers, directors, or trustees of each of the supported organizations? If "Yes" or "No," provide details in Part VI .			
3a			
b Did the organization exercise a substantial degree of direction over the policies, programs, and activities of each of its supported organizations? If "Yes," describe in Part VI the role played by the organization in this regard.			
3b			

Part V Type III Non-Functionally Integrated 509(a)(3) Supporting Organizations

- 1** ☐ Check here if the organization satisfied the Integral Part Test as a qualifying trust on Nov. 20, 1970 (*explain in Part VI*). **See instructions.** All other Type III non-functionally integrated supporting organizations must complete Sections A through E.

Section A—Adjusted Net Income		(A) Prior Year	(B) Current Year (optional)
1	Net short-term capital gain	1	
2	Recoveries of prior-year distributions	2	
3	Other gross income (see instructions)	3	
4	Add lines 1 through 3.	4	
5	Depreciation and depletion	5	
6	Portion of operating expenses paid or incurred for production or collection of gross income or for management, conservation, or maintenance of property held for production of income (see instructions)	6	
7	Other expenses (see instructions)	7	
8	Adjusted Net Income (subtract lines 5, 6, and 7 from line 4)	8	
Section B—Minimum Asset Amount		(A) Prior Year	(B) Current Year (optional)
1	Aggregate fair market value of all non-exempt-use assets (see instructions for short tax year or assets held for part of year):		
a	Average monthly value of securities	1a	
b	Average monthly cash balances	1b	
c	Fair market value of other non-exempt-use assets	1c	
d	Total (add lines 1a, 1b, and 1c)	1d	
e	Discount claimed for blockage or other factors (<i>explain in detail in Part VI</i>):		
2	Acquisition indebtedness applicable to non-exempt-use assets	2	
3	Subtract line 2 from line 1d.	3	
4	Cash deemed held for exempt use. Enter 0.015 of line 3 (for greater amount, see instructions).	4	
5	Net value of non-exempt-use assets (subtract line 4 from line 3)	5	
6	Multiply line 5 by 0.035.	6	
7	Recoveries of prior-year distributions	7	
8	Minimum Asset Amount (add line 7 to line 6)	8	
Section C—Distributable Amount			Current Year
1	Adjusted net income for prior year (from Section A, line 8, column A)	1	
2	Enter 0.85 of line 1.	2	
3	Minimum asset amount for prior year (from Section B, line 8, column A)	3	
4	Enter greater of line 2 or line 3.	4	
5	Income tax imposed in prior year	5	
6	Distributable Amount. Subtract line 5 from line 4, unless subject to emergency temporary reduction (see instructions).	6	
7	☐ Check here if the current year is the organization's first as a non-functionally integrated Type III supporting organization (see instructions).		

Part V Type III Non-Functionally Integrated 509(a)(3) Supporting Organizations (continued)

Section D—Distributions		Current Year
1	Amounts paid to supported organizations to accomplish exempt purposes	1
2	Amounts paid to perform activity that directly furthers exempt purposes of supported organizations, in excess of income from activity	2
3	Administrative expenses paid to accomplish exempt purposes of supported organizations	3
4	Amounts paid to acquire exempt-use assets	4
5	Qualified set-aside amounts (prior IRS approval required—provide details in Part VI)	5
6	Other distributions (describe in Part VI). See instructions.	6
7	Total annual distributions. Add lines 1 through 6.	7
8	Distributions to attentive supported organizations to which the organization is responsive (provide details in Part VI). See instructions.	8
9	Distributable amount for 2024 from Section C, line 6	9
10	Line 8 amount divided by line 9 amount	10

Section E—Distribution Allocations (see instructions)	(i) Excess Distributions	(ii) Underdistributions Pre-2024	(iii) Distributable Amount for 2024
1 Distributable amount for 2024 from Section C, line 6			
2 Underdistributions, if any, for years prior to 2024 (reasonable cause required—explain in Part VI). See instructions.			
3 Excess distributions carryover, if any, to 2024			
a From 2019			
b From 2020			
c From 2021			
d From 2022			
e From 2023			
f Total of lines 3a through 3e			
g Applied to underdistributions of prior years			
h Applied to 2024 distributable amount			
i Carryover from 2019 not applied (see instructions)			
j Remainder. Subtract lines 3g, 3h, and 3i from line 3f.			
4 Distributions for 2024 from Section D, line 7: \$			
a Applied to underdistributions of prior years			
b Applied to 2024 distributable amount			
c Remainder. Subtract lines 4a and 4b from line 4.			
5 Remaining underdistributions for years prior to 2024, if any. Subtract lines 3g and 4a from line 2. For result greater than zero, explain in Part VI . See instructions.			
6 Remaining underdistributions for 2024. Subtract lines 3h and 4b from line 1. For result greater than zero, explain in Part VI . See instructions.			
7 Excess distributions carryover to 2025. Add lines 3j and 4c.			
8 Breakdown of line 7:			
a Excess from 2020 . . .			
b Excess from 2021 . . .			
c Excess from 2022 . . .			
d Excess from 2023 . . .			
e Excess from 2024 . . .			

Part VI **Supplemental Information.** Provide the explanations required by Part II, line 10; Part II, line 17a or 17b; Part III, line 12; Part IV, Section A, lines 1, 2, 3b, 3c, 4b, 4c, 5a, 6, 9a, 9b, 9c, 11a, 11b, and 11c; Part IV, Section B, lines 1 and 2; Part IV, Section C, line 1; Part IV, Section D, lines 2 and 3; Part IV, Section E, lines 1c, 2a, 2b, 3a, and 3b; Part V, line 1; Part V, Section B, line 1e; Part V, Section D, lines 5, 6, and 8; and Part V, Section E, lines 2, 5, and 6. Also complete this part for any additional information. (See instructions.)

Schedule A, Part III, Line 12 - This amount came as a class action lawsuit settlement involving Zoom (2023).

SCHEDULE D
(Form 990)

(Rev. December 2024)

Department of the Treasury
Internal Revenue Service

Supplemental Financial Statements

Complete if the organization answered "Yes" on Form 990,
Part IV, line 6, 7, 8, 9, 10, 11a, 11b, 11c, 11d, 11e, 11f, 12a, or 12b.
Attach to Form 990.

Go to www.irs.gov/Form990 for instructions and the latest information.

OMB No. 1545-0047

Open to Public
Inspection

Name of the organization: MATHEMATICAL STAIRCASE
Employer identification number: 46-1813949

Part I Organizations Maintaining Donor Advised Funds or Other Similar Funds or Accounts
Complete if the organization answered "Yes" on Form 990, Part IV, line 6.
1 Total number at end of year
2 Aggregate value of contributions to (during year)
3 Aggregate value of grants from (during year)
4 Aggregate value at end of year
5 Did the organization inform all donors and donor advisors in writing that the assets held in donor advised funds are the organization's property, subject to the organization's exclusive legal control?
6 Did the organization inform all grantees, donors, and donor advisors in writing that grant funds can be used only for charitable purposes and not for the benefit of the donor or donor advisor, or for any other purpose conferring impermissible private benefit?

Part II Conservation Easements
Complete if the organization answered "Yes" on Form 990, Part IV, line 7.
1 Purpose(s) of conservation easements held by the organization (check all that apply).
2 Complete lines 2a through 2d if the organization held a qualified conservation contribution in the form of a conservation easement on the last day of the tax year.
3 Number of conservation easements modified, transferred, released, extinguished, or terminated by the organization during the tax year
4 Number of states where property subject to conservation easement is located
5 Does the organization have a written policy regarding the periodic monitoring, inspection, handling of violations, and enforcement of the conservation easements it holds?
6 Staff and volunteer hours devoted to monitoring, inspecting, handling of violations, and enforcing conservation easements during the year
7 Amount of expenses incurred in monitoring, inspecting, handling of violations, and enforcing conservation easements during the year
8 Does each conservation easement reported on line 2d above satisfy the requirements of section 170(h)(4)(B)(i) and section 170(h)(4)(B)(ii)?
9 In Part XIII, describe how the organization reports conservation easements in its revenue and expense statement and balance sheet, and include, if applicable, the text of the footnote to the organization's financial statements that describes the organization's accounting for conservation easements.

Part III Organizations Maintaining Collections of Art, Historical Treasures, or Other Similar Assets
Complete if the organization answered "Yes" on Form 990, Part IV, line 8.
1a If the organization elected, as permitted under FASB ASC 958, not to report in its revenue statement and balance sheet works of art, historical treasures, or other similar assets held for public exhibition, education, or research in furtherance of public service, provide in Part XIII the text of the footnote to its financial statements that describes these items.
b If the organization elected, as permitted under FASB ASC 958, to report in its revenue statement and balance sheet works of art, historical treasures, or other similar assets held for public exhibition, education, or research in furtherance of public service, provide the following amounts relating to these items.
2 If the organization received or held works of art, historical treasures, or other similar assets for financial gain, provide the following amounts required to be reported under FASB ASC 958 relating to these items.

Part III Organizations Maintaining Collections of Art, Historical Treasures, or Other Similar Assets *(continued)*

3 Using the organization's acquisition, accession, and other records, check any of the following that make significant use of its collection items (check all that apply).

a ☐ Public exhibition

b ☐ Scholarly research

c ☐ Preservation for future generations

d ☐ Loan or exchange program

e ☐ Other

4 Provide a description of the organization's collections and explain how they further the organization's exempt purpose in Part XIII.

5 During the year, did the organization solicit or receive donations of art, historical treasures, or other similar assets to be sold to raise funds rather than to be maintained as part of the organization's collection? ☐ **Yes** ☐ **No**

Part IV Escrow and Custodial Arrangements

Complete if the organization answered "Yes" on Form 990, Part IV, line 9, or reported an amount on Form 990, Part X, line 21.

1a Is the organization an agent, trustee, custodian, or other intermediary for contributions or other assets not included on Form 990, Part X? ☐ **Yes** ☐ **No**

b If "Yes," explain the arrangement in Part XIII and complete the following table.

	Amount
c Beginning balance	1c
d Additions during the year	1d
e Distributions during the year	1e
f Ending balance	1f

2a Did the organization include an amount on Form 990, Part X, line 21, for escrow or custodial account liability? ☐ **Yes** ☐ **No**

b If "Yes," explain the arrangement in Part XIII. Check here if the explanation has been provided in Part XIII ☐

Part V Endowment Funds

Complete if the organization answered "Yes" on Form 990, Part IV, line 10.

	(a) Current year	(b) Prior year	(c) Two years back	(d) Three years back	(e) Four years back
1a Beginning of year balance					
b Contributions					
c Net investment earnings, gains, and losses					
d Grants or scholarships					
e Other expenditures for facilities and programs					
f Administrative expenses					
g End of year balance					

2 Provide the estimated percentage of the current year end balance (line 1g, column (a)) held as:

a Board designated or quasi-endowment %

b Permanent endowment %

c Term endowment %

The percentages on lines 2a, 2b, and 2c should equal 100%.

3a Are there endowment funds not in the possession of the organization that are held and administered for the organization by:

(i) Unrelated organizations? **3a(i)**

(ii) Related organizations? **3a(ii)**

b If "Yes" on line 3a(ii), are the related organizations listed as required on Schedule R? **3b**

	Yes	No
3a(i)		
3a(ii)		
3b		

4 Describe in Part XIII the intended uses of the organization's endowment funds.

Part VI Land, Buildings, and Equipment

Complete if the organization answered "Yes" on Form 990, Part IV, line 11a. See Form 990, Part X, line 10.

Description of property	(a) Cost or other basis (investment)	(b) Cost or other basis (other)	(c) Accumulated depreciation	(d) Book value
1a Land				
b Buildings				
c Leasehold improvements				
d Equipment				
e Other				

Total. Add lines 1a through 1e. (Column (d) must equal Form 990, Part X, line 10c, column (B))

Part VII Investments—Other Securities

Complete if the organization answered "Yes" on Form 990, Part IV, line 11b. See Form 990, Part X, line 12.

(a) Description of security or category (including name of security)	(b) Book value	(c) Method of valuation: Cost or end-of-year market value
(1) Financial derivatives		
(2) Closely held equity interests		
(3) Other _____		
(A) _____		
(B) _____		
(C) _____		
(D) _____		
(E) _____		
(F) _____		
(G) _____		
(H) _____		
Total. (Column (b) must equal Form 990, Part X, line 12, col. (B))		

Part VIII Investments—Program Related

Complete if the organization answered "Yes" on Form 990, Part IV, line 11c. See Form 990, Part X, line 13.

(a) Description of investment	(b) Book value	(c) Method of valuation: Cost or end-of-year market value
(1) _____		
(2) _____		
(3) _____		
(4) _____		
(5) _____		
(6) _____		
(7) _____		
(8) _____		
(9) _____		
Total. (Column (b) must equal Form 990, Part X, line 13, col. (B))		

Part IX Other Assets

Complete if the organization answered "Yes" on Form 990, Part IV, line 11d. See Form 990, Part X, line 15.

(a) Description	(b) Book value
(1) _____	
(2) _____	
(3) _____	
(4) _____	
(5) _____	
(6) _____	
(7) _____	
(8) _____	
(9) _____	
Total. (Column (b) must equal Form 990, Part X, line 15, col. (B))	

Part X Other Liabilities

Complete if the organization answered "Yes" on Form 990, Part IV, line 11e or 11f. See Form 990, Part X, line 25.

1. (a) Description of liability	(b) Book value
(1) Federal income taxes	
(2) _____	
(3) _____	
(4) _____	
(5) _____	
(6) _____	
(7) _____	
(8) _____	
(9) _____	
Total. (Column (b) must equal Form 990, Part X, line 25, col. (B))	

2. Liability for uncertain tax positions. In Part XIII, provide the text of the footnote to the organization's financial statements that reports the organization's liability for uncertain tax positions under FASB ASC 740. Check here if the text of the footnote has been provided in Part XIII ☐

SCHEDULE L
(Form 990)

(Rev. December 2024)

Department of the Treasury
Internal Revenue Service

Transactions With Interested Persons

Complete if the organization answered "Yes" on Form 990, Part IV, line 25a, 25b, 26, 27, 28a, 28b, or 28c; or Form 990-EZ, Part V, line 38a or 40b.

Attach to Form 990 or Form 990-EZ.

Go to www.irs.gov/Form990 for instructions and the latest information.

OMB No. 1545-0047

Open to Public Inspection

Name of the organization

Employer identification number

MATHEMATICAL STAIRCASE

46-1813949

Part I Excess Benefit Transactions (section 501(c)(3), section 501(c)(4), and section 501(c)(29) organizations only)
Complete if the organization answered "Yes" on Form 990, Part IV, line 25a or 25b; or Form 990-EZ, Part V, line 40b.

Table with 5 columns: (1) Name of disqualified person, (2) Relationship between disqualified person and organization, (3) Description of transaction, (4) Corrected? Yes/No. Rows (1) through (6).

2 Enter the amount of tax incurred by the organization managers or disqualified persons during the year under section 4958 \$
3 Enter the amount of tax, if any, on line 2, above, reimbursed by the organization \$

Part II Loans to and/or From Interested Persons
Complete if the organization answered "Yes" on Form 990-EZ, Part V, line 38a, or Form 990, Part IV, line 26; or if the organization reported an amount on Form 990, Part X, line 5, 6, or 22.

Table with 9 columns: (a) Name of interested person, (b) Relationship with organization, (c) Purpose of loan, (d) Loan to or from the organization? To/From, (e) Original principal amount, (f) Balance due, (g) In default? Yes/No, (h) Approved by board or committee? Yes/No, (i) Written agreement? Yes/No. Rows (1) through (10) and Total.

Part III Grants or Assistance Benefiting Interested Persons
Complete if the organization answered "Yes" on Form 990, Part IV, line 27.

Table with 5 columns: (a) Name of interested person, (b) Relationship between interested person and the organization, (c) Amount of assistance, (d) Type of assistance, (e) Purpose of assistance. Rows (1) through (10).

Part IV

Business Transactions Involving Interested Persons
Complete if the organization answered "Yes" on Form 990, Part IV, line 28a, 28b, or 28c.

(a) Name of interested person	(b) Relationship between interested person and the organization	(c) Amount of transaction	(d) Description of transaction	(e) Sharing of organization's revenues?	
				Yes	No
(1) sarah-marie belcastro	Family member of Joan B	49,140	\$41,290 employment; \$7,850 contra		✓
(2)					
(3)					
(4)					
(5)					
(6)					
(7)					
(8)					
(9)					
(10)					

Part V

Supplemental Information
Provide additional information for responses to questions on Schedule L. See instructions.

Schedule L, Part IV - sarah-marie belcastro, PhD, President and Chair of the Board, is the daughter of Joan Belcastro, Treasurer. Neither are compensated as members of the Board of Directors or as Officers. sarah-marie belcastro was paid a total of \$49,140: \$39,686 as director of the MathILy program, \$7,850 as instructor in the MathILy program, and \$1,603 for work related to the MathILy-EST program.

Name of the organization	Employer identification number
MATHEMATICAL STAIRCASE	46-1813949

Form 990, Part VI, Section A, Line 2 - The President and Chair of the Board, sarah-marie belcastro, Phd, is the daughter of Joan Belcastro, Treasurer.

Form 990, Part VI, Section A, Line 9 - The following board members cannot be reached at the organization's address: 1) sarah-marie belcastro, PhD, 214 Lippincott Ave., Ardmore, PA, 19003, 2) Hannah Alpert, PhD, Clerk and Secretary of the Board, 8581 Villa La Jolla Dr., Apt C, La Jolla, CA, 92037 3) Joan Belcastro, Treasurer, 285 N. Grandview Ave., Dubuque, IA, 52001, 4) Joshua Greene, PhD, 1 Regent Circle, #3, Brookline, MA, 02445, 5) Emily Peters, PhD, 646 Judson Ave., Evanston, IL, 60202.

Form 990, Part VI, Section B, Line 11b - The Treasurer prepares form 990 and accompanying schedules which are reviewed by the President and Chair of the Board and by the Clerk and Secretary of the Board.

Form 990, Part VI, Section B, Line 12c - All members of the Board are aware of the relationship between the President and Chair of the Board and the Treasurer. These two individuals must recuse themselves from discussions and voting on issues affecting the one of the either. Such discussions take place without their presence.

Form 990, Part VI, Section C, Line 19 - The organization's articles of incorporation are available for public view at the website of the Secretary of State of the Commonwealth of Massachusetts. The Bylaws of the organization are available on request from the Clerk of the corporation. The Bylaws include an extensive conflict-of-interest policy. Financial statements are available on the organization's website as well as on GuideStar as are its tax filings. Form 1023 is available upon request and the determination letter is posted on the Mathematical Staircase, Inc., website.

Form 990, Part VII, Section A, Line 1a - The \$49,140 paid to sarah-marie belcastro was not for work related to her position as President and Chair of the Board. As director of the MathILy summer program, she was paid \$39,686, as an instructor in the MathILy program she was paid \$7,850, and \$1,603 for work related to an NSF grant.

Other Program Services Accomplishments

Activity Code	Description	Expense	Grants	Revenue
	FaBraC: a stand-alone course offered to students who have completed the MathILy summer program and who are interested in studying additional mathematical topics. It was determined that FaBraC would not run in fall, 2024, due to scheduling conflicts among the students who wished to participate. FaBraC will continue to be offered if enough student interest exists and scheduling is feasible.	0	0	0
Total:		0	0	0