### **Return of Organization Exempt From Income Tax**

OMB No. 1545-0047 2022

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. Department of the Treasury

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

**Open to Public** Inspection

Inte	rnal Reve	enue Service	Go to www.irs.gov/Form990 for instructions and the latest	inforn	natio	n.		Inspection	
A	For the	e 2022 calend	ar year, or tax year beginning 01/01/2022 and ending		1	2/31/ <u>2</u> 0	)22		
в	Check i	f applicable:	C Name of organization MATHEMATICAL STAIRCASE			I	D Emplo	oyer identification number	
	Address	s change	Doing business as		46-1813949				
	Name c	hange	Number and street (or P.O. box if mail is not delivered to street address) F	1	E Telephone number				
	Initial re	eturn	231 W Franklin St			720-771-6428			
	Final ret	urn/terminated	City or town, state or province, country, and ZIP or foreign postal code						
	Amende	ed return	Holyoke, MA 01040		<b>G</b> Gross	receipts \$ 494,874			
	Applicat	tion pending	F Name and address of principal officer: sarah-marie belcastro	F	<b>i(a)</b> is t	his a grou	p return fo	r subordinates? 🗌 Yes 🗹 No	
			231 W Franklin St, Holyoke, MA 01040	H	<b>l(b)</b> Ar	e all sub	ordinat	es included? 🗌 Yes 🗌 No	
I I	Tax-exe	empt status:	✓ 501(c)(3) 501(c) ( ) (insert no.) 4947(a)(1) or 527	lf	"No,"	attach	a list. Se	e instructions.	
J	Website	e: www.mat	hstaircase.org	F	<b>l(c)</b> Gr	oup exe	emption	number	
к	Form of	organization: 🗸	Corporation Trust Association Other L Year of form	nation:	201	13	<b>M</b> State	of legal domicile: MA	
Ρ	art I	Summa	γ						
	1	Briefly des	cribe the organization's mission or most significant activities: To edu	ucate	math	ematic	ally ta	lented secondary and	
e		tertiary stu	dents in mathematical thinking and writing. The means of providing suc	ch edu	catio	n inclu	ides, b	ut is not limited to	
Jan		establishin	g summer programs for instructing such students.						
/err	2	Check this	box 🗌 if the organization discontinued its operations or disposed of	of mo	re tha	an 259	% of it	s net assets.	
5	3		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	c) .			4	3	
ties	5	Total numb	per of individuals employed in calendar year 2022 (Part V, line 2a)				5	3	
Activities & Governance	6	Total numb	per of volunteers (estimate if necessary)				6	8	
Ac	7a	Total unrela	ated business revenue from Part VIII, column (C), line 12				7a	0	
	b	Net unrelat	ed business taxable income from Form 990-T, Part I, line 11				7b	0	
					Prio	r Year		Current Year	
Ð	8	Contributio	ns and grants (Part VIII, line 1h)			6	5, <b>99</b> 8	143,485	
nue	9	Program se	ervice revenue (Part VIII, line 2g)			15	6,819	351,389	
Revenue	10	Investment	income (Part VIII, column (A), lines 3, 4, and 7d)				0	0	
ш	11	Other reve	nue (Part VIII, column (A), lines 5, 6d, 8c, 9c, 10c, and 11e)				0	0	
	12	Total reven	ue-add lines 8 through 11 (must equal Part VIII, column (A), line 12)			22	2,817	494,874	
	13	Grants and	similar amounts paid (Part IX, column (A), lines 1–3)				0	0	
	14	Benefits pa	id to or for members (Part IX, column (A), line 4)				0	0	
es	15	,	her compensation, employee benefits (Part IX, column (A), lines 5–10)			6	2,507	69,119	
) SUS	16a	Profession	al fundraising fees (Part IX, column (A), line 11e)				0	0	
Expenses	b		aising expenses (Part IX, column (D), line 25) 0						
ш	17		nses (Part IX, column (A), lines 11a–11d, 11f–24e)			8	9,744	455,174	
	18		nses. Add lines 13–17 (must equal Part IX, column (A), line 25) .			15	2,251	524,293	
	19	Revenue le	ss expenses. Subtract line 18 from line 12			7	0,566	-29,419	
Net Assets or Fund Balances				Begin	ning o	f Curre	nt Year	End of Year	
sets alan	20	Total asset	s (Part X, line 16)			22	5,405	196,006	
t As	21		ties (Part X, line 26)				0	0	
			or fund balances. Subtract line 21 from line 20			22	5,405	196,006	
Pa	art II	Signatu	re 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	Signature of officer	Date	Date				
Here	Joan Belcastro, Treasurer Type or print name and title						
Paid Preparer	Print/Type preparer's name	Preparer's signature		Check if self-employed	PTIN		
Use Only	Firm's name		Firm's EIN				
	Firm's address	Phone no.					
May the IR	S discuss this return with the preparer	shown above? See instructions .				<b>Yes</b>	🗌 No
For Paperw	ork Reduction Act Notice, see the separa	ate instructions.	Cat. No. 11282	(		Form 9	90 (2022)

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Part	III     Statement of Program Service Accomplishments       Check 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?
3	Did the organization cease conducting, or make significant changes in how it conducts, any program services?
	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 \$255,692 including grants of \$) (Revenue \$225,463 )
	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. Eight trainees (staff members) also benefitted.
4b	(Code:) (Expenses \$149,710 including grants of \$0) (Revenue \$150,830)
	MathILy-Er: Similar to MathILy with slightly younger students and who are earlier in their mathematical development. Number of students enrolled was 31 in a 5-week program of courses, presentations and leisure activities. Six trainees (staff members) also
	benefitted.
4c	(Code:) (Expenses \$ 109,169 including grants of \$0 ) (Revenue \$ 109,340 )
	MathILy-EST: A Research Experience for Undergraduates (REU) focused on beginning college students. Number of students
	enrolled was 10 in an 8-week program focused on a program of research, presentations, interactions with the MathILy students and leisure activities.
4d	Other program services (Describe on Schedule O.) See Schedule O, Statement 1
	(Expenses \$ 8,083 including grants of \$ 0) (Revenue \$ 7,298)
4e	Total program service expenses 522,654

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Part	V Checklist of Required Schedules			
4	In the expension described in section $501(s)(2)$ or $4047(s)(1)$ (other then a private foundation)? If "Vec."		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	<b>Section 501(c)(3) organizations.</b> Did the organization engage in lobbying activities, or have a section 501(h) election in effect during the tax year? <i>If "Yes," complete Schedule C, Part II</i>	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? <i>If "Yes," complete Schedule C, Part III</i>	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? <i>If "Yes," complete Schedule D, Part I</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? <i>If "Yes," complete Schedule D, Part II</i>	7		~
8	Did the organization maintain collections of works of art, historical treasures, or other similar assets? <i>If "Yes," complete Schedule D, Part III</i>	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? <i>If "Yes," complete Schedule D, Part IV</i>	9		~
10	Did the organization, directly or through a related organization, hold assets in donor-restricted endowments or in quasi endowments? <i>If "Yes," complete Schedule D, Part V</i> .	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.			
а	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? <i>If "Yes," complete Schedule D, Part VII</i>	11b		~
С	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? <i>If "Yes," complete Schedule D, Part VIII</i>	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? <i>If "Yes," complete Schedule D, Part IX</i>	11d		~
е	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)? <i>If "Yes," complete Schedule D, Part X</i>	11f		~
	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 b	Did the organization maintain an office, employees, or agents outside of the United States? Did the organization have aggregate revenues or expenses of more than \$10,000 from grantmaking,	14a		~
D	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? <i>If "Yes," complete Schedule F, Parts II and IV</i>	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? <i>If "Yes," complete Schedule F, Parts III and IV.</i>	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? <i>If "Yes," complete Schedule G, Part I.</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? <i>If "Yes," complete Schedule G, Part II</i> .	18		~
19	Did the organization report more than \$15,000 of gross income from gaming activities on Part VIII, line 9a? <i>If "Yes," complete Schedule G, Part III</i>	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? <i>If "Yes," complete Schedule I, Parts I and II</i>	21		~

Part	V 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		~
4a	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 c	Did the organization invest any proceeds of tax-exempt bonds beyond a temporary period exception? Did the organization maintain an escrow account other than a refunding escrow at any time during the year to defease any tax-exempt bonds?	24b 24c		
d 5a	Did the organization act as an "on behalf of" issuer for bonds outstanding at any time during the year? <b>Section 501(c)(3), 501(c)(4), and 501(c)(29) organizations.</b> 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>	24d 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		~
6	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		~
7	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		~
8	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? If "Yes," complete Schedule L, Part IV	28a		r
b C	A family member of any individual described in line 28a? <i>If "Yes," complete Schedule L, Part IV</i> 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>	28b 28c	~	~
29 30	Did the organization receive more than \$25,000 in non-cash contributions? <i>If "Yes," complete Schedule M</i> Did the organization receive contributions of art, historical treasures, or other similar assets, or qualified conservation contributions? <i>If "Yes," complete Schedule M</i>	29 30		~ ~
81 82	Did the organization liquidate, terminate, or dissolve and cease operations? <i>If "Yes," complete Schedule N, Part I</i> 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>	31 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? If "Yes," complete Schedule R, Part II, III, or IV, and Part V, line 1	34		~
b b	Did the organization have a controlled entity within the meaning of section 512(b)(13)?	35a 35b		~
6	Section 501(c)(3) organizations. Did the organization make any transfers to an exempt non-charitable related organization? If "Yes," complete Schedule R, Part V, line 2	36		~
7	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		~
8	Did the organization complete Schedule O and provide explanations on Schedule O for Part VI, lines 11b and 19? <b>Note:</b> All Form 990 filers are required to complete Schedule O .	38	~	
Part	V     Statements Regarding Other IRS Filings and Tax Compliance       Check if Schedule O contains a response or note to any line in this Part V		<u> </u>	~
1a b c	Enter the number reported in box 3 of Form 1096. Enter -0- if not applicable   1a   31     Enter the number of Forms W-2G included on line 1a. Enter -0- if not applicable   1b   0     Did the organization comply with backup withholding rules for reportable payments to vendors and reportable gaming (gambling) winnings to prize winners?   1   1	1c	Yes	No
		-	n <b>990</b>	(202

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Part	V Statements Regarding Other IRS Filings and Tax Compliance (continued)		Yes	No
	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 3			
	If at least one is reported on line 2a, did the organization file all required federal employment tax returns? .	2b	~	
	Did the organization have unrelated business gross income of \$1,000 or more during the year?	3a		~
	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		~
	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).			
	Was the organization a party to a prohibited tax shelter transaction at any time during the tax year?	5a		~
	Did any taxable party notify the organization that it was or is a party to a prohibited tax shelter transaction?	5b		~
	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		~
	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).			
а	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		~
	If "Yes," did the organization notify the donor of the value of the goods or services provided?	7b		
	Did the organization sell, exchange, or otherwise dispose of tangible personal property for which it was			
	required to file Form 8282?	7c		~
	If "Yes," indicate the number of Forms 8282 filed during the year	_		
	Did the organization receive any funds, directly or indirectly, to pay premiums on a personal benefit contract?	7e		~
	Did the organization, during the year, pay premiums, directly or indirectly, on a personal benefit contract?	7f		~
-	If the organization received a contribution of qualified intellectual property, did the organization file Form 8899 as required? If the organization received a contribution of cars, boats, airplanes, or other vehicles, did the organization file a Form 1098-C?	7g 7h		
	<b>Sponsoring organizations maintaining donor advised funds.</b> Did a donor advised fund maintained by the	70		
	sponsoring organization have excess business holdings at any time during the year?	8		
	Sponsoring organizations maintaining donor advised funds.			
	Did the sponsoring organization make any taxable distributions under section 4966?	9a		
	Did the sponsoring organization make a distribution to a donor, donor advisor, or related person?	9b		
10	Section 501(c)(7) organizations. Enter:			
а	Initiation fees and capital contributions included on Part VIII, line 12			
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:			
а	Gross income from members or shareholders			
b	Gross income from other sources. (Do not net amounts due or paid to other sources against amounts due or received from them.)			
12a	against amounts due or received from them.)	12a		
	If "Yes," enter the amount of tax-exempt interest received or accrued during the year <b>12b</b>	12a		
	Section 501(c)(29) qualified nonprofit health insurance issuers.			
	Is the organization licensed to issue qualified health plans in more than one state?	13a		
	Note: See the instructions for additional information the organization must report on Schedule O.			
	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			
	Enter the amount of reserves on hand			
	Did the organization receive any payments for indoor tanning services during the tax year?	14a		~
	If "Yes," has it filed a Form 720 to report these payments? If "No," provide an explanation on Schedule O.	14b		
	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?	4-		
	excess parachute payment(s) during the year?	15		~
	If "Yes," see the instructions and file Form 4720, Schedule N.	40		
	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		~
	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?	17		
	If "Yes," complete Form 6069.	17		

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Part	Governance, Management, and Disclosure. For each "Yes" response to lines 2 through 7b below response to line 8a, 8b, or 10b below, describe the circumstances, processes, or changes on Schedule O.			
	Check if Schedule O contains a response or note to any line in this Part VI			
Secti	on A. Governing Body and Management		Vee	Na
1a	Enter the number of voting members of the governing body at the end of the tax year <b>1a</b> 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.		Yes	No
b 2	Enter the number of voting members included on line 1a, above, who are independent . <b>1b</b> 3 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	v	
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 5 6 7a	Did the organization make any significant changes to its governing documents since the prior Form 990 was filed? Did the organization become aware during the year of a significant diversion of the organization's assets? . Did the organization have members or stockholders?	4 5 6 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?	70 7b		~
8	Did the organization contemporaneously document the meetings held or written actions undertaken during the year by the following:			
a b 9	The governing body?	8a 8b 9	ン ン ン	
Secti	ion B. Policies (This Section B requests information about policies not required by the Internal Rever	iue C	ode.)	Ì
			Yes	No
10a b	Did the organization have local chapters, branches, or affiliates?	10a		
11a b	Has the organization provided a complete copy of this Form 990 to all members of its governing body before filing the form? Describe on Schedule O the process, if any, used by the organization to review this Form 990.	11a		~
12a	Did the organization have a written conflict of interest policy? <i>If "No," go to line 13</i>	12a	~	
b C	Were officers, directors, or trustees, and key employees required to disclose annually interests that could give rise to conflicts? Did the organization regularly and consistently monitor and enforce compliance with the policy? <i>If "Yes," describe on Schedule O how this was done</i> .	12b 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?			
а	The organization's CEO, Executive Director, or top management official	15a		~
b	Other officers or key employees of the organization	15b		~
16a	If "Yes" to line 15a or 15b, describe the process on Schedule O. See instructions. 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		
Secti	on C. Disclosure			
17 18	List the states with which a copy of this Form 990 is required to be filed <u>MA</u> Section 6104 requires an organization to make its Forms 1023 (1024 or 1024-A, if applicable), 990, and 990- (3)s only) available for public inspection. Indicate how you made these available. Check all that apply.	T (sec	tion (	501(c
	V Own website V Another's website V Unon request Other (synlain on Schodule O)			

Own website Another's website Upon request Other (explain on Schedule O)
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.

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<sup>20</sup> 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

#### Part VII Compensation of Officers, Directors, Trustees, Key Employees, Highest Compensated Employees, and Independent Contractors

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

Section A. Officers, Directors, Trustees, Key Employees, and Highest Compensated Employees

**1a** Complete this table for all persons required to be listed. Report compensation for the calendar year ending with or within the organization's tax year.

• List all of the organization's **current** officers, directors, trustees (whether individuals or organizations), regardless of amount of compensation. Enter -0- in columns (D), (E), and (F) if no compensation was paid.

• List all of the organization's current key employees, if any. See the instructions for definition of "key employee."

• List the organization's five **current** highest compensated employees (other than an officer, director, trustee, or key employee) who received reportable compensation (box 5 of Form W-2, box 6 of Form 1099-MISC, and/or box 1 of Form 1099-NEC) of more than \$100,000 from the organization and any related organizations.

• List all of the organization's **former** officers, key employees, and highest compensated employees who received more than \$100,000 of reportable compensation from the organization and any related organizations.

• List all of the organization's **former directors or trustees** that received, in the capacity as a former director or trustee of the organization, more than \$10,000 of reportable compensation from the organization and any related organizations.

See the instructions for the order in which to list the persons above.

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

				(0	C)													
(A)	(B)				ition			(D)	(E)	(F)								
Name and title	Average	(do not check more than one						Reportable	Reportable	Estimated amount								
		box, unless person is both an officer and a director/trustee)						compensation	compensation	of other								
	per week (list any hours for related organizations below dotted line)	Individua or directo		Key employee Officer		Former Highest compensate employee		Former Highest compensated employee		Former Highest compensate employee		Former Highest compensate employee Key employee		Former Highest compensate employee Key employee Officer		from the organization (W-2/ 1099-MISC/ 1099-NEC)	from related organizations (W-2/ 1099-MISC/ 1099-NEC)	compensation from the organization and related organizations
sarah-marie belcastro PhD	14.00					0												
President and Chair of the Board	0.00	~		V				39,114	0	0								
Hannah Alpert PhD	2.00																	
Clerk and Secretary of the Board	0.00	~		~				4,328	0	0								
Emily Peters PhD	1.00							.,										
Director	0.00	~						0	0	0								
Joan Belcastro	2.00																	
Treasurer	0.00	~		~				0	0	0								
Joshua Greene PhD	0.50																	
Director	0.00	~						0	0	0								
		1																
		-																
		-																
		-																
		-																
		-																
		-																
	ļ	ļ	L		L		L			<b> </b>								

Part	VII Section A. Officers, Directors, 7	Trustees,	Key I	Emj	olo	yee	s, an	d⊦	lighest Compe	ensated	Emplo	yees (	contir	nued)
	(A) (B) Name and title Average hours				Pos neck s pe	erson	e than c is both or/trust	an	<b>(D)</b> Reportable compensation	<b>(E)</b> Report compens	able	(F Estimated of of		ount
		per week (list any hours for related organizations below dotted line)	Individua or directo	Institutional trustee	Officer	Key employee	Highest compensated employee	Former	from the organization (W-2/ 1099-MISC/ 1099-NEC)	from re organizatio 1099-N 1099-N	ns (W-2/ IISC/	fr	pensati om the ization organiza	and
			-				ă							
			-											
			-											
			-											
			-											
1b c d	Subtotal	VII, Sectio			•	 	•		43,442		0			0
2	Total number of individuals (including reportable compensation from the organi	but not						ted		eceived r		han \$ <sup>-</sup>	100,00 Yes	
3 4	Did the organization list any <b>former</b> of employee on line 1a? <i>If "Yes," complete</i> of For any individual listed on line 1a, is the	Schedule J	for si	uch	indi	ividi	ual	• •				3		<i>v</i>
	organization and related organizations individual	greater th	an \$ <sup>-</sup>	150,	000	)? / 	f "Yes	s," · ·	complete Sche	dule J fo	r such	4		~
5	Did any person listed on line 1a receive of for services rendered to the organization											5		~
Secti 1	on B. Independent Contractors Complete this table for your five high compensation from the organization. Rep													
_	(A) Name and business add	Iress				-			(B) Description of serv	vices	(	<b>(C)</b> Compens	ation	
None														

2	Total number of independent contractors (including but not limited to those listed above) who	
	received more than \$100,000 of compensation from the organization	

Part VIII Statement of Revenue

Check if Schedule O contains a response or note to any line in this Part VIII		
---	--	--

		Offeck if Schedule	0.00		,spon					
							<b>(A)</b> Total revenue	(B) Related or exempt function revenue	<b>(C)</b> Unrelated business revenue	(D) Revenue excluded from tax under sections 512–514
ts,	1a	Federated campaig	ns .		1a	0				
Contributions, Gifts, Grants, and Other Similar Amounts	b	Membership dues			1b	0				
ΩĔ	С	Fundraising events			1c	0				
r A,	d	Related organization	ns .		1d	0				
lia Gi	е	Government grants	(cont	ributions)	1e	120,099				
Sir S		All other contribution	ns, git	fts, grants,						
er		and similar amounts no	ot inclu	uded above	1f	23,386				
lg f	g	Noncash contribution	ons in	cluded in						
d tr		lines 1a-1f			1g	\$ 0				
a C	h	Total. Add lines 1a-	-1f.				143,485			
						Business Code				
e	2a	MathILy Student Fee	es			611699	196,260	196,260	0	0
Ξa	b	MathILy-Er Student				611699	147,830	147,830	0	0
Se Di	с	FaBraC Student Fee				611699	7,299	7,299	0	0
jram Ser Revenue	d									
Program Service Revenue	e									
2	f	All other program se					0	0	0	0
	g	Total. Add lines 2a-				<u> </u>	351,389			
	3	Investment income								
		other similar amoun					0	0	0	0
	4	Income from investr	nent o	of tax-exen	not ba	ond proceeds	0	0	0	0
	5				•		0	0	0	0
		, , , , , , , , , , , , , , , , , , ,		(i) Rea		(ii) Personal	_	_	_	-
	6a	Gross rents	6a							
	b	Less: rental expenses								
	с	Rental income or (loss)			0	0				
	d	Net rental income or (loss)								
	7a				(ii) Other					
		sales of assets								
		other than inventory	7a							
ē	b	Less: cost or other basis								
Revenue		and sales expenses .	7b							
eve	С	Gain or (loss)	7c		0	0				
<u>ب</u>	d	Net gain or (loss)								
Othei	8a	Gross income from	m fu	ndraising						
Ò		events (not including	\$	0						
		of contributions rep		d on line						
		1c). See Part IV, line	e 18		8a					
	b	Less: direct expens	es .		8b					
	С	Net income or (loss)			g eve	nts				
	9a	Gross income f								
		activities. See Part I	IV, lin	e19 .	9a					
	b	Less: direct expens	es .		9b					
		Net income or (loss)			ctivitie	es				
	10a	Gross sales of ir		ory, less						
		returns and allowan			10a					
		Less: cost of goods			10b					
	С	Net income or (loss)	) from	n sales of ir	vento	pry				
sn						Business Code				
le eol	11a									
Miscellaneous Revenue	b									
le v	С									
Alis, R	d									
2	е	Total. Add lines 11a					0			
	12	Total revenue. See	instr	uctions			494,874	351,389	0	0

## **Part IX** Statement of Functional Expenses Section 501(c)(3) and 501(c)(4) organizations must com

	X Statement of Functional Expenses				
Section	501(c)(3) and 501(c)(4) organizations must comp				
	Check if Schedule O contains a response	or note to any line	in this Part IX .		[
	include amounts reported on lines 6b, 7b,	<b>(A)</b> Total expenses	<b>(B)</b> Program service	<b>(C)</b> Management and	<b>(D)</b> Fundraising
	and 10b of Part VIII.		expenses	general expenses	expenses
	Grants and other assistance to domestic organizations				
	and domestic governments. See Part IV, line 21	0	0		
	Grants and other assistance to domestic				
	ndividuals. See Part IV, line 22	0	0		
	Grants and other assistance to foreign				
	organizations, foreign governments, and				
f	oreign individuals. See Part IV, lines 15 and 16	0	0		
	Benefits paid to or for members	0	0		
	Compensation of current officers, directors,				
t	rustees, and key employees	43,442	43,442	0	(
6 (	Compensation not included above to disqualified				
F	persons (as defined under section 4958(f)(1)) and				
F	persons described in section 4958(c)(3)(B)	0	0	0	(
7 (	Other salaries and wages	21,374	21,374	0	(
	Pension plan accruals and contributions (include	21,074	21,074		
	section 401(k) and 403(b) employer contributions)	0	0	0	(
	Other employee benefits	0	0	0	
	Payroll taxes	4,303	4,303	0	
	Fees for services (nonemployees):	4,303	4,303	0	(
			0	0	
	Management	0	0	0	(
		-	0	0	(
		1,040	0	1,040	(
	_obbying	0	0	0	(
	Professional fundraising services. See Part IV, line 17	0			(
	nvestment management fees	0	0	0	(
-					
	A), amount, list line 11g expenses on Schedule O.) .	0	0	0	C
	Advertising and promotion	100	100	0	C
	Office expenses	8,066	7,467	599	
	nformation technology	0	0	0	C
<b>15</b> F	Royalties	0	0	0	
	Occupancy	0	0	0	C
17	Travel	17,380	17,380	0	(
	Payments of travel or entertainment expenses				
f	for any federal, state, or local public officials	0	0	0	(
19 (	Conferences, conventions, and meetings .	0	0	0	(
<b>20</b> I	nterest	0	0	0	(
<b>21</b> F	Payments to affiliates	0	0	0	(
<b>22</b> [	Depreciation, depletion, and amortization .	0	0	0	(
<b>23</b>	nsurance	5,021	5,021		
<b>24</b> (	Other expenses. Itemize expenses not covered				
	above. (List miscellaneous expenses on line 24e. If				
	ine 24e amount exceeds 10% of line 25, column				
(	A), amount, list line 24e expenses on Schedule O.)				
а	Facilities	304,018	304,018	0	
	Contracted Services	70,364	70,364	0	C
-	REU Stipends	48,000	48,000	0	
-	Background checks	1,185	1,185	0	(
-	All other expenses	1,105	1,103	0	
	Fotal functional expenses. Add lines 1 through 24e	524,293	522,654	1,639	
	Joint costs. Complete this line only if the	JZ4,Z73	522,054	1,039	L L L L L L L L L L L L L L L L L L L
C	organization reported in column (B) joint costs				
f	from a combined educational campaign and				
	iundraising solicitation. Check here if				
1	ollowing SOP 98-2 (ASC 958-720)				<b>–</b> 000 (222

Form 990 (2022)

	n 990 (2	•			Page <b>11</b>
P	art X	Balance Sheet Check if Schedule O contains a response or note to any line in this Pa	4 V		
		Check in Schedule O contains a response of hote to any line in this Pa	(A) Beginning of year		•••••••••••••••••••••••••••••••••••••
	1	Cash-non-interest-bearing	225,405	1	196,006
	2	Savings and temporary cash investments	0	2	0
	3	Pledges and grants receivable, net	0	3	0
	4	Accounts receivable, net	0	4	0
	5	Loans and other receivables from any current or former officer, director, trustee, key employee, creator or founder, substantial contributor, or 35%			
	6	controlled entity or family member of any of these persons Loans and other receivables from other disqualified persons (as defined	0	5	0
		under section 4958(f)(1)), and persons described in section 4958(c)(3)(B)	0	6	0
ets	7	Notes and loans receivable, net	0	7	0
Assets	8	Inventories for sale or use	0	8	0
A	9 10a	Prepaid expenses and deferred charges	0	9	0
	b	Less: accumulated depreciation		10c	
	11	Investments-publicly traded securities	0	11	0
	12	Investments—other securities. See Part IV, line 11	0		0
	13	Investments – program-related. See Part IV, line 11	0		0
	14	Intangible assets	0	14	0
	15	Other assets. See Part IV, line 11	0	15	0
	16	<b>Total assets.</b> Add lines 1 through 15 (must equal line 33)	225,405	16	196,006
	17	Accounts payable and accrued expenses	0	17	0
	18	Grants payable	0	18	0
	19	Deferred revenue	0	19	0
	20	Tax-exempt bond liabilities	0	20	0
	21	Escrow or custodial account liability. Complete Part IV of Schedule D.	0	21	0
Liabilities	22	Loans and other payables to any current or former officer, director, trustee, key employee, creator or founder, substantial contributor, or 35%			
iab		controlled entity or family member of any of these persons	0	22	0
	23	Secured mortgages and notes payable to unrelated third parties	0	23	0
	24 25	Unsecured notes and loans payable to unrelated third parties Other liabilities (including federal income tax, payables to related third parties, and other liabilities not included on lines 17–24). Complete Part X	0	24	0
		of Schedule D		25	
	26	Total liabilities. Add lines 17 through 25	0	26	0
seor		Organizations that follow FASB ASC 958, check here and complete lines 27, 28, 32, and 33.			
alaı	27	Net assets without donor restrictions	225,405	27	196,006
ĕ	28	Net assets with donor restrictions	0	28	0
Fund Balances		Organizations that do not follow FASB ASC 958, check here D and complete lines 29 through 33.			
Net Assets or	29	Capital stock or trust principal, or current funds		29	
ets	30	Paid-in or capital surplus, or land, building, or equipment fund		30	
SS	31	Retained earnings, endowment, accumulated income, or other funds		31	
ìt ⊿	32	Total net assets or fund balances	225,405	32	196,006
ž	33	Total liabilities and net assets/fund balances	225,405	33	196,006

Form **990** (2022)

Form 99	00 (2022)			Pa	age <b>1</b> 2
Part	XI Reconciliation of Net Assets				
	Check 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		49	4,874
2	Total expenses (must equal Part IX, column (A), line 25)	2		52	4,293
3	Revenue less expenses. Subtract line 2 from line 1	3		-2	9,419
4	Net assets or fund balances at beginning of year (must equal Part X, line 32, column (A))	4		22	5,405
5	Net unrealized gains (losses) on investments	5			0
6	Donated services and use of facilities	6			C
7	Investment expenses	7			C
8	Prior period adjustments	8			20
9	Other changes in net assets or fund balances (explain on Schedule O)	9			C
10	Net assets or fund balances at end of year. Combine lines 3 through 9 (must equal Part X, line				
	32, column (B))	10		19	6,006
Part	XII Financial Statements and Reporting				
	Check 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," ex Schedule O.	kplain d	<del>on</del>		
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 cor 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?		2b		~
-	If "Yes," check a box below to indicate whether the financial statements for the year were audi separate basis, consolidated basis, or both:	ted on	-		
	Separate basis Consolidated basis Both consolidated and separate basis				
С	If "Yes" to line 2a or 2b, does the organization have a committee that assumes responsibility for over				
	the audit, review, or compilation of its financial statements and selection of an independent accounta			~	
	If the organization changed either its oversight process or selection process during the tax year, e. Schedule O.	xplain d	n		
3a	As a result of a federal award, was the organization required to undergo an audit or audits as set fo 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 und required audit or audits, explain why on Schedule O and describe any steps taken to undergo such a				

Form **990** (2022)

SCHEDULE A (Form 990)

#### **Public Charity Status and Public Support**

OMB No. 1545-0047

Department of the Treasury
Internal Revenue Service

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.

2022
<b>Open to Public</b>
Inspection

#### Name of the organization MATHEMATICAL STAIRCASE

Employer identification number

46-1813949

MATICAL	STAIRCASE		

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)(vi). (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 33<sup>1</sup>/<sub>3</sub>% 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 33<sup>1</sup>/<sub>3</sub>% 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))	) listed in your governing		(v) Amount of monetary support (see instructions)	(vi) Amount of other support (see instructions)		
			Yes	No				
(A)								
(B)								
(C)								
(D)								
(E)								
Total								

# Part IISupport 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<br/>Part III. If the organization fails to qualify under the tests listed below, please complete Part III.)

Secti	on A. Public Support						
Calen	dar year (or fiscal year beginning in)	<b>(a)</b> 2018	<b>(b)</b> 2019	(c) 2020	(d) 2021	(e) 2022	(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						
	on B. Total Support		1		1	1	
	dar year (or fiscal year beginning in)	<b>(a)</b> 2018	<b>(b)</b> 2019	(c) 2020	(d) 2021	(e) 2022	(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					12	
13	First 5 years. If the Form 990 is for the organization, check this box and stop he on C. Computation of Public Support	re				ear as a sectio	
<u>3ecu</u> 14	Public support percentage for 2022 (line 6	-		11 column (f)		14	%
14	Public support percentage from 2022 (inter Public support percentage from 2021 Sch					15	<u> </u>
16a	<b>33</b> <sup>1</sup> / <sub>3</sub> % <b>support test—2022.</b> If the organization qua	ization did not	check the box	k on line 13, ai	nd line 14 is 3	3 <sup>1</sup> /3% or more,	check this
b	<b>331</b> /3% <b>support test—2021.</b> If the organi this box and <b>stop here</b> . The organization						
17a	<b>10%-facts-and-circumstances test</b> - <b>20</b> 10% or more, and if the organization m Part VI how the organization meets the organization	eets the facts facts	-and-circumst umstances tes	ances test, ch	eck this box a zation qualifies	and stop here.	Explain in
b	<b>10%-facts-and-circumstances test</b> — <b>20</b> 15 is 10% or more, and if the organizatio in Part VI how the organization meets the organization	on meets the fa e facts-and-cir	acts-and-circu	mstances test,	, check this bo	ox and stop he	<b>re</b> . Explain
18	Private foundation. If the organization of instructions						x and see

#### 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.)

Secti	on A. Public Support			, p.eee ee		,	
	dar year (or fiscal year beginning in)	<b>(a)</b> 2018	<b>(b)</b> 2019	(c) 2020	(d) 2021	(e) 2022	(f) Total
1	Gifts, grants, contributions, and membership fees received. (Do not include any "unusual grants.")						
2	Gross receipts from admissions, merchandise	17,204	68,530	53,374	65,997	143,485	348,590
	sold or services performed, or facilities furnished in any activity that is related to the organization's tax-exempt purpose	304,479	276,403	142,125	156,819	351,389	1,231,215
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	321,683	344,933	195,499	222,816	494,874	1,579,805
7a	Amounts included on lines 1, 2, and 3 received from disqualified persons	1,500	2,000	2,000	6,744	4,500	16,744
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
с	Add lines 7a and 7b	1,500	2,000	2,000	6,744	4,500	16,744
8	Public support.     (Subtract line 7c from line 6.)						1,563,061
-	on B. Total Support						
	dar year (or fiscal year beginning in)	<b>(a)</b> 2018	<b>(b)</b> 2019	(c) 2020	<b>(d)</b> 2021	(e) 2022	(f) Total
9	Amounts from line 6	321,683	344,933	195,499	222,816	494,874	1,579,805
10a	Gross income from interest, dividends, payments received on securities loans, rents, royalties, and income from similar sources.	0	0	0	0	0	0
b	Unrelated business taxable income (less section 511 taxes) from businesses acquired after June 30, 1975	0	0	0	0	0	0
с	Add lines 10a and 10b	0	0	0	0	0	0
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	0	0	0
13	<b>Total support.</b> (Add lines 9, 10c, 11, and 12.)						
14	<b>First 5 years.</b> If the Form 990 is for the organization, check this box and <b>stop he</b>	•			-		
Secti	on C. Computation of Public Suppor						· · · []
15	Public support percentage for 2022 (line 8			13, column (f))		15	98.94 %
16	Public support percentage from 2021 Sch					16	99.03 %
	on D. Computation of Investment Inc						
17	Investment income percentage for 2022 (			-		17	0 %
18	Investment income percentage from 2021					18	0 %
19a	<b>33</b> <sup>1</sup> / <sub>3</sub> % <b>support tests</b> - <b>2022.</b> If the organi 17 is not more than 33 <sup>1</sup> / <sub>3</sub> %, check this box						
b	<b>331</b> /3% support tests – 2021. If the organiz line 18 is not more than 331/3%, check this b						
20	<b>Private foundation.</b> If the organization di	-	-	-		and see instruc	ctions .
						Schedule A	(Form 990) 2022

#### 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

- 1 Are all of the organization's supported organizations listed by name in the organization's governing documents? 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.
- 2 Did the organization have any supported organization that does not have an IRS determination of status under section 509(a)(1) or (2)? If "Yes," explain in **Part VI** how the organization determined that the supported organization was described in section 509(a)(1) or (2).
- **3a** Did the organization have a supported organization described in section 501(c)(4), (5), or (6)? If "Yes," answer lines 3b and 3c below.
- **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)? If "Yes," describe in **Part VI** when and how the organization made the determination.
- **c** Did the organization ensure that all support to such organizations was used exclusively for section 170(c)(2)(B) purposes? If "Yes," explain in **Part VI** what controls the organization put in place to ensure such use.
- **4a** Was any supported organization not organized in the United States ("foreign supported organization")? If "Yes," and if you checked box 12a or 12b in Part I, answer lines 4b and 4c below.
- **b** Did the organization have ultimate control and discretion in deciding whether to make grants to the foreign supported organization? 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.
- **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)? 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.
- 5a Did the organization add, substitute, or remove any supported organizations during the tax year? 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).
- **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? If "Yes," provide detail in **Part VI**.
- 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? *If "Yes," complete Part I of Schedule L (Form 990).*
- 8 Did the organization make a loan to a disqualified person (as defined in section 4958) not described on line 7? If "Yes," complete Part I of Schedule L (Form 990).
- **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))? *If "Yes," provide detail in Part VI.*
- **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? *If "Yes," provide detail in Part VI.*
- **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? *If "Yes," provide detail in Part VI.*
- **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)? If "Yes," answer line 10b below.
  - **b** Did the organization have any excess business holdings in the tax year? (Use Schedule C, Form 4720, to determine whether the organization had excess business holdings.)

Yes No

1

2

3a

3b

3c

4a

4b

4c

5a

5b 5c

6

7

8

9a

9b

9c

10a

# 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.

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.

#### Section C. Type II Supporting Organizations

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).

#### 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.

#### 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.
- 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.
- 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.*
- **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.*

Yes No

1

2

1

3

2a

2b

3a

3b

Yes No

Yes No

Part	V Type III Non-Functionally Integrated 509(a)(3) Supporting Org	gani	zations	
1	Check here if the organization satisfied the Integral Part Test as a qualifying instructions. All other Type III non-functionally integrated supporting organ			ions A through E.
Sect	ion 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		
Sect	ion 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):			
а	Average monthly value of securities	1a		
b	Average monthly cash balances	1b		
С	Fair market value of other non-exempt-use assets	1c		
d	Total (add lines 1a, 1b, and 1c)	1d		
е	<b>Discount</b> claimed for blockage or other factors (explain in detail in <b>Part VI</b> ):			
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		
Sect	ion 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	<b>Distributable Amount.</b> 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-function	allv i	ntegrated Type III suppo	rting organization

Check here if the current year is the organization's first as a non-functionally integrated Type III supporting organization 7 (see instructions).

Schedule A (Form 990) 2022

Schedu	le A (Form 990) 2022			Page <b>7</b>		
Part	V Type III Non-Functionally Integrated 509(a)(3	B) Supporting Organi	zations (continued)			
Sect	on D-Distributions			Current Year		
1	Amounts paid to supported organizations to accomplish e					
2	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 purp	oses of supported orga	inizations 3			
4	Amounts paid to acquire exempt-use assets		4			
5	Qualified set-aside amounts (prior IRS approval required-	•	/			
	Other distributions (describe in <b>Part VI</b> ). See instructions.		6			
7 8	<b>Total annual distributions.</b> Add lines 1 through 6.	h the everesimetics is use	7			
0	Distributions to attentive supported organizations to whic (provide details in <b>Part VI</b> ). See instructions.	in the organization is res	8 sponsive			
9	Distributable amount for 2022 from Section C, line 6		9			
10	Line 8 amount divided by line 9 amount		10			
Sect	on E—Distribution Allocations (see instructions)	(i) Excess Distributions	(ii) Underdistributions Pre-2022	(iii) Distributable Amount for 2022		
1	Distributable amount for 2022 from Section C, line 6					
2	Underdistributions, if any, for years prior to 2022 (reasonable cause required — <i>explain in Part VI</i> ). See instructions.					
3	Excess distributions carryover, if any, to 2022					
а	From 2017					
b	From 2018					
C	From 2019					
d	From 2020					
e	From 2021					
f	Total of lines 3a through 3e					
<u> </u>	Applied to underdistributions of prior years					
<u>h</u>	Applied to 2022 distributable amount					
i	Carryover from 2017 not applied (see instructions)					
	Remainder. Subtract lines 3g, 3h, and 3i from line 3f.					
4	Distributions for 2022 from Section D, line 7: \$					
а	Applied to underdistributions of prior years					
b	Applied to 2022 distributable amount					
C	Remainder. Subtract lines 4a and 4b from line 4.					
5	Remaining underdistributions for years prior to 2022, if any. Subtract lines 3g and 4a from line 2. For result greater than zero, <i>explain in Part VI</i> . See instructions.					
6	Remaining underdistributions for 2022. Subtract lines 3h and 4b from line 1. For result greater than zero, <i>explain in</i> <b>Part VI</b> . See instructions.					
7	<b>Excess distributions carryover to 2023.</b> Add lines 3j and 4c.					
8	Breakdown of line 7:					
а	Excess from 2018					
b	Excess from 2019					
С	Excess from 2020					
d	Excess from 2021					
e	Excess from 2022					

Schedule A (Form 990) 2022

Part VISupplemental 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 L (Form 990)

#### **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

ation. Open To Put Inspection Employer identification number

Department of the Treasury Internal Revenue Service Name of the organization

#### MATHEMATICAL STAIRCASE

46-1813949

Part		tions (section 501(c)(3), section 501(c)(4), ar ion answered "Yes" on Form 990, Part IV, lii		ne 40b.	
1	(a) Name of disqualified person	(b) Relationship between disqualified person and	(c) Description of transaction	(d) Co	rrected?
		organization		Yes	No
(1)					
(2)					
(3)					
(4)					
(5)					
(6)					
2		red by the organization managers or disqu	· · · · ·	_	
3	Enter the amount of tax, if any,	on line 2, above, reimbursed by the organiz	zation \$		

a 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.

(a) Name of interested person	<b>(b)</b> Relationship with organization	<b>(c)</b> Purpose of loan	from	an to or 1 the zation?	<b>(e)</b> Original principal amount	(f) Balance due	<b>(g)</b> In c	lefault?	by bo	proved ard or hittee?	(i) Wi agreei	
			То	From			Yes	No	Yes	No	Yes	No
(1)												
(2)												
(3)												
(4)												
(5)												
(6)												
(7)												
(8)												
(9)												
(10)												
Total						\$						

Part III

#### Grants or Assistance Benefiting Interested Persons.

Complete if the organization answered "Yes" on Form 990, Part IV, line 27.

(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
(1)				
(2)				
(3)				
(4)				
(5)				
(6)				
(7)				
(8)				
(9)				
(10)				

For Paperwork Reduction Act Notice, see the Instructions for Form 990 or 990-EZ.

Cat. No. 50056A

Schedule L (Form 990) 2022

#### 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 (c) Amount of (d) Description of transaction (e) Sharing of interested person and the transaction organization's organization revenues? Yes No (1) sarah-marie belcastro PhD Family member of Joan B 39,114 See Part V (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 I, Line 1 - Schedule L, Part I, Line 1, 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 \$39,114: \$23,292 as the employed director of the MathLy summer program, \$7,214 as an instructor in the MathLy program, \$7,200 as instructor for FaBraC, \$350 for work relating to CFDA No., 47.049, NSF REU 2019 award DMS-1851842, and \$1,058 for work related to CFDA No. 47.049, NSF REU 2022 award DMS-2149647.


V

#### Supplemental Information to Form 990 or 990-EZ

Complete to provide information for responses to specific questions on Form 990 or 990-EZ or to provide any additional information.

Attach to Form 990 or Form 990-EZ.



Department of the Treasury	Attach to Form 990 or Form 990-E2.		Open to Public
nternal Revenue Service Name of the organization	Go to www.irs.gov/Form990 for the latest information.	<b>Frankavar idanti</b>	Inspection fication number
MATHEMATICAL STAI	DCASE		-1813949
	2 - A new program called FaBraC, a stand-alone course offered to students who l		
	who are interested in studying additional mathematical topics.	nave completed i	
Form 990, Part III, Line	4d - FaBraC, a stand-alone course offered to students who have completed the M	/lathILy summer p	program and who
are interested in study	ing additional mathematical topics. Eight students were enrolled.		
Form 990 Part V Line	1a - The organization files its forms 1096 through a service which files the forms	1096 electronica	
	3 people and 28 independent contractors.		
	2a - The organization files its forms W-2 electronically so even through there are	3 employees, the	ere is no W-3
generated.			
Form 990, Part VI, Sect	ion A, Line 1b - All members of the Board serve without compensation. However,	, sarah-marie bele	castro, PhD,
	the Board, serves as the director of the MathILy summer program as well as serv		
program. Hannah Alpe	rt, PhD, served as an instructor in the MathILy program.		
Form 990 Part VI Sect	ion A, Line 2 - The President and Chair of the Board, sarah-marie belcastro, PhD,	is the daughter (	of Joan Belcastro
Treasurer.	ISHTY, Enc 2 - The Freshent and Ghan of the Board, Salatematic Beleastill, PhD,		
Form 990, Part VI, Sect	ion A, Line 9 - The following board members cannot be reached at the organization	on's address: 1) I	Hannah Alpert,
	ary of the Board, 449 Harper Ave., Apt. 6, Auburn, AL, 36830 2) Joan Belcastro, Tre		
	Joshua Greene, PhD, 1 Regent Circle #3, Brookline, MA, 02445 4) Emily Peters, Ph	nD, 646 Judson A	ve., Evanston,
IL, 60202.			
Form 990, Part VI, Sect	ion B, Line 11b - The Treasurer prepares form 990 and accompanying schedules	which are review	red by the
	the Board and the Clerk and Secretary of the Board.		<b>-</b>
Form 000 Dort VI. Soot	ion D. Line 120. All members of the Deard are sugged of the femily relationship by	twoon the Drooid	lant and Chair of
	ion B, Line 12c - All members of the Board are aware of the family relationship be surer. These two individuals must recuse themselves from discussion and voting		
	is take place without their presence.	J off 135ues affee	
Form 990, Part VI, Sect	ion C, Line 19 - The organization's articles of incorporation are available for publi	ic view at the wel	osite of the
Secretary of State of th	e Commonwealth of Massachusetts. The Bylaws of the organization are available	on request from	the Clerk of the
	vs include an extensive conflict-of-interest policy. Financial statements are availa		
	s are its tax filings. Form 1023 is available upon request and the determination let	tter is posted on	the Mathematical
Staircase, Inc., website	<u>N.</u>		
Form 990 Part VI Sect	ion C, Line 20 - The organization's books and records are held by sarah-marie be	Icastro PhD 231	W Franklin St
	I: 413-341-1373. The Treasurer guides accounting record keeping, prepares the ai		
	al tax filings: Joan Belcastro, 285 N. Grandview Ave., Dubuque, IA, 52001, tel: 563-		
	rporate filings for the Commonwealth of Massachusetts, the incorporation docum		
	of Directors: Hannah Alpert, PhD, 449 Harper Ave., Apt 6, Auburn, AL 36830, tel: 7		
	tion A, Line 1a - The \$39,114 paid to sarah-marie belcastro was not for her positio		
	he MathILy summer program she was paid \$23,292; as an instructor she was paid		work done in
connection with the NS	6F grants she was paid \$1,407. The \$4,328 paid to Hannah Alpert was for instructi	onal services.	

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Schedule	O, Statement 1	MATHEMATICAL STAIRCASE				
Form: For	rm 990 (2022)		EIN:	46-1813949		
Page: <b>2</b>			Par	t III, Line 4d		
	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. Eight students were enrolled.	8,083		7,298		
Total:		8,083	0	7,298		