



William Lowell
PUTNAM
Mathematical Competition

ANNOUNCEMENT OF WINNERS

of the seventy-eighth competition held on December 2, 2017

WINNING TEAMS

Rank	School	Team Members (in alphabetical order)
1	MASSACHUSETTS INSTITUTE OF TECHNOLOGY	Allen Liu, Sammy Luo, Yunkun Zhou
2	HARVARD UNIVERSITY	Dong Ryul Kim, Stefan Spataru, David Stoner
3	PRINCETON UNIVERSITY	Murilo Corato Zanarella, Zhuo Qun Song, Xiaoyu Xu
4	UNIVERSITY OF TORONTO	Itai Bar-Natan, Michael Chow, Dmitry Paramonov
5	UNIVERSITY OF CALIFORNIA, LOS ANGELES	Xiaoyu Huang, Konstantin Miagkov, Ni Yan

The institution with the first-place team receives an award of \$25,000, and each member of the team receives \$1,000. The awards for second place are \$20,000 and \$800; for third place, \$15,000 and \$600; for fourth place, \$10,000 and \$400; and for fifth place, \$5,000 and \$200.

In each of the following categories, the listing is in alphabetical order.

THE PUTNAM FELLOWS – THE SIX HIGHEST RANKING INDIVIDUALS

Each receives an award of \$2,500.

OMER CERRAHOGLU	Massachusetts Institute of Technology
JIYANG GAO	Massachusetts Institute of Technology
JUNYAO PENG	Massachusetts Institute of Technology
ASHWIN SAH	Massachusetts Institute of Technology
DAVID STONER	Harvard University
YUNKUN ZHOU	Massachusetts Institute of Technology

THE NEXT NINE HIGHEST RANKING INDIVIDUALS

Each receives an award of \$1,000.

ANDREW HE	Massachusetts Institute of Technology
BRICE HUANG	Massachusetts Institute of Technology
RAVI JAGADEESEN	Harvard University
DONG RYUL KIM	Harvard University
ALLEN LIU	Massachusetts Institute of Technology
ZHUO QUN SONG	Princeton University
XIAOYU XU	Princeton University
YUAN YAO	Massachusetts Institute of Technology
HUNG-HSUN YU	Massachusetts Institute of Technology

THE WILLIAM LOWELL PUTNAM MATHEMATICAL COMPETITION

THE NEXT TEN HIGHEST RANKING INDIVIDUALS

Each receives an award of \$250.

MICHAEL CHOW	University of Toronto
JUNHAO FAN	University of California, Berkeley
CALVIN LEE	Massachusetts Institute of Technology
YANG LIU	Massachusetts Institute of Technology
SAMMY LUO	Massachusetts Institute of Technology
LINGJIE MEI	Massachusetts Institute of Technology
SUNG GI PARK	Massachusetts Institute of Technology
KEVIN SUN	Massachusetts Institute of Technology
BEN WEI	University of Waterloo
JIANQIAO XIA	Massachusetts Institute of Technology

HONORABLE MENTION – INDIVIDUALS

OMAR ALRABIAH, Carnegie Mellon University	ALEKSA KONSTANTINOV, Massachusetts Institute of Technology
DAVID ALTIZIO, Carnegie Mellon University	MICHAEL KURAL, Massachusetts Institute of Technology
RYAN ALWEISS, Massachusetts Institute of Technology	ANDREW KWON, Carnegie Mellon University
TEODOR-ANDREI ANDRONACHE, Princeton University	XUMING LIANG, Harvey Mudd College
RODRIGO ANGELO, Princeton University	TING-CHUN LIN, Massachusetts Institute of Technology
ITAI BAR-NATAN, University of Toronto	IAN MCMEEKING, University of Minnesota, Twin Cities
HENRIK BOECKEN, Massachusetts Institute of Technology	ERIK METZ, University of Maryland, College Park
JOSHUA BRAKENSIEK, Carnegie Mellon University	KONSTANTIN MIAGKOV, University of California, Los Angeles
BRIAN BURKS, University of California, Berkeley	PETER MIZES, Massachusetts Institute of Technology
ADAM BUSIS, Harvey Mudd College	JEET MOHAPATRA, Massachusetts Institute of Technology
EVAN CHEN, Massachusetts Institute of Technology	ANTONIO MOLINA LOVETT, University of Waterloo
ERNEST CHIU, Rutgers University,	JOSHUA MUNDINGER, Swarthmore College
MURILO CORATO ZANARELLA, Princeton University	MAX MURIN, Massachusetts Institute of Technology
JEFFREY DAWSON, University of British Columbia Vancouver	SHYAM NARAYANAN, Harvard University
AARON GEORGE, University of Maryland, College Park	WEERACHAI NEERANARTVONG, Massachusetts Institute of Technology
ALBERT GEVORGYAN, University of Waterloo	ERIC NEYMAN, Princeton University
EMRE GIRGIN, University of California, Los Angeles	MINH NGUYEN, Stony Brook University
ANDREI GRAUR, Princeton University	ESHAAN NICHANI, Massachusetts Institute of Technology
ZHENGYU (JARRY) GU, University of Waterloo	ALEXANDRU PASCADI, University of California, Los Angeles
FENG GUI, Duke University	HUY TUAN PHAM, Stanford University
GEORGE HAN, Harvard University	NIPUN PITIMANAAREE, Massachusetts Institute of Technology
CALVIN HSU, Massachusetts Institute of Technology	
XIAOYU HUANG, University of California, Los Angeles	
LAZAR ILIC, California Institute of Technology	
JESSE KIM, Reed College	
MYEONHU KIM, Columbia University	
JACOB KLEGAR, Harvard University	

THE WILLIAM LOWELL PUTNAM MATHEMATICAL COMPETITION

TRISTAN POLLNER, Princeton University
QI QI, Massachusetts Institute of Technology
SEYOON RAGAVAN, Princeton University
SUSHRUTHA REDDY, Massachusetts Institute of Technology
SAMUEL REINEHR, Colorado School of Mines
VICTOR REIS, Cornell University
TAHSIN SAFFAT, Massachusetts Institute of Technology
SIVAKORN SANGUANMOO, University of Wisconsin – Madison
MENGYI SHAN, Harvey Mudd College
ZHENGYUAN SHANG, California Institute of Technology
RORY SOIFFER, University of Washington
STEFAN SPATARU, Harvard University
FRANSISCA SUSAN, Massachusetts Institute of Technology

MICHAEL TANG, Massachusetts Institute of Technology
ANZO (ZHAO YANG) TEH, University of Waterloo
HARISH VEMURI, Yale University
DANIELLE WANG, Massachusetts Institute of Technology
FENGYANG WANG, University of Waterloo
PATRICK WANG, Massachusetts Institute of Technology
WEIYU WANG, Cornell University
FARRELL ELDRIAN WU, Massachusetts Institute of Technology
JONATHAN XIA, University of California, Berkeley
NI YAN, University of California, Los Angeles
XUERUI YANG, Syracuse University
YUEPENG YANG, Carnegie Mellon University
KAI ZHENG, Princeton University
HANZHI ZHENG, Stanford University

ELIZABETH LOWELL PUTNAM PRIZE

The winner receives an award of \$1,000.

NI YAN University of California, Los Angeles

HONORABLE MENTION – TEAMS

CARNEGIE MELLON UNIVERSITY
COLUMBIA UNIVERSITY
HARVEY MUDD COLLEGE
UNIVERSITY OF CALIFORNIA, BERKELEY
UNIVERSITY OF WATERLOO

Omar Alrabiah, David Altizio, Joshua Brakensiek
Quang Vu Dao, Nguyen Dung, Myeonhu Kim
Shyan Akmal, Adam Busis, Jordan Haack
Brian Burks, Jiannan Jiang, Jonathan Xia
Sina Abbasi, Albert Gevorgyan, Anzo (Zhao Yang) Teh

THE WILLIAM LOWELL PUTNAM MATHEMATICAL COMPETITION WAS PREPARED BY:

DANIEL ULLMAN, George Washington University – Director of the Competition
MARK KRUSEMEYER, Carleton College – Associate Director of the Competition
BYRON WALDEN, Santa Clara University – Chair of the Questions Committee
HARM DERKSEN, University of Michigan – Member of the Questions Committee
IOANA DUMITRIU, University of Washington – Member of the Questions Committee

THE WILLIAM LOWELL PUTNAM MATHEMATICAL COMPETITION

Score–Rank Correspondence

Score	Rank	Score	Rank	Score	Rank	Score	Rank	Score	Rank	Score	Rank
90	1	70	21	55	66.5	41	184	27	484	13	933
89	2	69	22.5	54	68.5	40	207	26	497.5	12	1005
88	3	68	24	53	72.5	39	233.5	25	505.5	11	1115.5
87	4	67	25	52	81	38	255	24	517	10	1274.5
85	5	66	26	51	93.5	37	270	23	538.5	9	1448
82	6	64	28	50	107.5	36	276	22	575	8	1565.5
81	7	63	30	49	122	35	281	21	621.5	6	1614
80	8	62	31.5	48	134	34	289.5	20	693.5	5	1620.5
79	10.5	61	34	47	142.5	33	302.5	19	771	4	1643
78	13.5	60	39	46	149.5	32	326	18	823	3	1693.5
75	15	59	45	45	154	31	358.5	17	856	2	1836.5
73	16	58	51	44	158	30	397	16	872.5	1	2146
72	17	57	59	43	162.5	29	439	15	885.5	0	3493
71	19	56	64.5	42	171	28	467	14	903.5		

Frequency Distribution of Problem Scores of the Top 502 Contestants

Score	A1	A2	A3	A4	A5	A6	B1	B2	B3	B4	B5	B6
10	352	230	111	87	10	2	267	233	225	9	32	3
9	39	9	21	1	0	0	116	62	9	4	17	1
8	34	6	12	40	4	3	54	32	4	4	5	2
7	0	0	0	0	2	0	1	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0
2	18	12	45	24	0	7	37	84	41	1	13	2
1	6	5	22	0	1	4	13	21	8	3	38	2
0	50	159	72	152	163	40	3	49	75	132	72	94
NA	3	81	219	198	322	446	11	21	140	349	325	398

THE WILLIAM LOWELL PUTNAM MATHEMATICAL COMPETITION

Students Ranked 1–184

Listed by university in alphabetical order

Brigham Young University, Provo, UT

Joseph Ward

California Institute of Technology, Pasadena, CA

Andrew Bai

Lazar Ilic

Alexander Meiburg

Zachary Chase

Gideon Leeper

Zhengyuan Shang

Carnegie Mellon University, Pittsburgh, PA

Maxwell Aires

Pranav Devarakonda

Jung Joo Suh

Omar Alrabiah

Cody Johnson

Zachary Sussman

David Altizio

Andrew Kwon

Jianming Wang

Alyazeed Basyoni

George Lu

Yuepeng Yang

Joshua Brakensiek

Yiwei Lyu

Corwin de Boor

Fei Peng

Colorado School of Mines, Golden, CO

Samuel Reinehr

Columbia University, New York, NY

Quang Vu Dao

Matthew Lerner-Brecher

Myeonhu Kim

Shangzhou Xia

Cornell University, Ithaca, NY

Qingxuan Jiang

Shruthi Sridhar

Victor Reis

Weiyu Wang

Courant Institute of Mathematical Sciences, New York University, New York, NY

Aadil Bhole

Duke University, Durham, NC

Feng Gui

Zhenhua Liu

Junghyun Hwang

Yikai Wu

THE WILLIAM LOWELL PUTNAM MATHEMATICAL COMPETITION

Harvard University, Cambridge, MA

George Han	Dong Ryul Kim	Laura Pierson
Matthew Hase-Liu	Jacob Klegar	Stefan Spataru
Ravi Jagadeesen	Shyam Narayanan	David Stoner

Harvey Mudd College, Claremont, CA

Shyan Akmal	Xuming Liang	Ziyang Zhang
Adam Busis	Mengyi Shan	

Massachusetts Institute of Technology, Cambridge, MA

Varkey Alumootil	Yang Liu	Maya Sankar
Ryan Alweiss	Sammy Luo	Mehtaab Sawhney
Kevin Beuchot	Lingjie Mei	Kevin Sun
Henrik Boecken	Peter Mizes	Fransisca Susan
Anton Cao	Jeet Mohapatra	Michael Tang
Omer Cerrahoglu	Srijon Mukherjee	Ashwath Thirumalai
Kevin Chang	Max Murin	Girishvar Venkat
Evan Chen	Weerachai Neeranartvong	Patrick Wang
Jiyang Gao	Eshaan Nichani	Danielle Wang
Andrew He	Zachary Obsniuk	Farrell Eldrian Wu
Calvin Hsu	Sung Gi Park	Jianqiao Xia
Brice Huang	Junyao Peng	Joshua Xiong
Kritkorn Karntikoon	Nipun Pitimanaaree	Allen Yang
Aleksa Konstantinov	Qi Qi	Kevin Yang
Samuel Korsky	Akshay Ravikumar	Yuan Yao
Michael Kural	Sushrutha Reddy	Hung-Hsun Yu
Calvin Lee	Nikhil Reddy	Rachel Zhang
Ting-Chun Lin	Tahsin Saffat	Yunkun Zhou
Allen Liu	Ashwin Sah	

THE WILLIAM LOWELL PUTNAM MATHEMATICAL COMPETITION

Michigan State University, East Lansing, MI

Mohit Bansil

Ohio State University, Columbus, OH

Ankan Bhattacharya

Princeton University, Princeton, NJ

Teodor-Andrei Andronache

Changshuo Liu

Yang Song

Rodrigo Angelo

Eric Neyman

Matthew Tyler

Murilo Corato Zanarella

Tristan Pollner

Gabriel Vercelli

Andrei Graur

Seyoon Ragavan

Xiaoyu Xu

Miles Lee

Zhuo Qun Song

Kai Zheng

Reed College, Portland, OR

Jesse Kim

Rensselaer Polytechnic Institute, Troy, NY

Paween Pitimanaaree

Rutgers University, Piscataway, NJ

Ernest Chiu

Michael Wang

St. Olaf College, Northfield, MN

Jakob Hofstad

Stanford University, Stanford, CA

John Mistele

Huy Tuan Pham

Hanzhi Zheng

Stony Brook University, Stony Brook, NY

Minh Nguyen

Swarthmore College, Swarthmore, PA

Zhicheng (John) Fan

Joshua Munding

Syracuse University, Syracuse, NY

Xuerui Yang

Tufts University, Medford, MA

Phong Hoang

University of British Columbia Vancouver, Vancouver, BC, Canada

Jeffrey Dawson

Sina Saleh

Heng (Henry) Xia

THE WILLIAM LOWELL PUTNAM MATHEMATICAL COMPETITION

University of Calgary, Calgary, AB, Canada

Reginald Lybbert

University of California, Berkeley, Berkeley, CA

Brian Burks

Jiannan Jiang

Jonathan Xia

Junhao Fan

Brian Liu

Yuanning Zhang

University of California, Los Angeles, Los Angeles, CA

Emre Girgin

Konstantin Miagkov

Ni Yan

Xiaoyu Huang

Alexandru Pascadi

Ruizhe Jia

Ken Willyard

University of Chicago, Chicago, IL

Alberto san Miguel Malaney

Vijay Srinivasan

University of Iowa, Iowa City, IA

Patrick Hiatt

University of Maryland – Baltimore County, Baltimore, MD

Sean Owen

University of Maryland, College Park, College Park, MD

Aaron George

Erik Metz

University of Michigan, Ann Arbor, Ann Arbor, MI

Stephen Jasina

Noah Luntzlara

University of Minnesota, Twin Cities, Minneapolis, MN

Ian McMeeking

University of Oklahoma, Norman, OK

Christoph Kinzel

University of Rochester, Rochester, NY

Zachary Polansky

University of Toronto, Toronto, ON, Canada

Itai Bar-Natan

Lexiao Lai

Dmitry Paramonov

Michael Chow

University of Washington, Seattle, WA

Thomas Browning

Dalai Chadraa

Rory Soiffer

THE WILLIAM LOWELL PUTNAM MATHEMATICAL COMPETITION

University of Waterloo, Waterloo, ON, Canada

Albert Gevorgyan

Antonio Molina Lovett

Ben Wei

Zhengyu (Jarry) Gu

Anzo (Zhao Yang) Teh

Rui Ming Xiong

Billy Jin

Fengyang Wang

University of Wisconsin – Madison, Madison, WI

Daotong Ge

Sivakorn Sanguanmoo

Virginia Tech, Blacksburg, VA

Will Craig

Washington University in St. Louis, University City, St. Louis, MO

Nathan Smith

Yale University, New Haven, CT

Aaron Berger

Yuxuan Ke

Jason Schuchardt

Daniel Gershenson

Luke Peilen

Harish Vemuri

Students Ranked 207–497.5

Listed by university in alphabetical order

Amherst College, Amherst, MA

Jekabs Mezinskis

Arizona State University, Tempe, AZ

John House

Liam Lawson

Boston University, Boston, MA

Yuan Liao

Brigham Young University, Provo, UT

Erik Parkinson

Jared Schaumann

Brown University, Providence, RI

Michael Mueller

Timothy Sudijono

George Spahn

David Wu

Bucknell University, Lewisburg, PA

Eben Blaisdell

THE WILLIAM LOWELL PUTNAM MATHEMATICAL COMPETITION

California Institute of Technology, Pasadena, CA

Jing Ding

Mayank Pandey

Yanke Song

David Fager

Alden Rogers

Matthew Weidner

California State University at Fullerton, Fullerton, CA

Wesley Whiting

Carleton College, Northfield, MN

Ian Seong

Carleton University, Ottawa, ON, Canada

Trevor Thompson

Carnegie Mellon University, Pittsburgh, PA

Trevor Arashiro

Samuel Kim

Tudor Popescu

Anirudh Baddepudi

Rohit Kopparchy

Wenze Shi

John Bostanci

Philip Lamkin

Michael Spoerl

Darshan Chakrabarti

Weihan Li

Alan Sun

Eric Chen

Beilin Li

Huachen (Brian) Sun

Zhijie Chen

Hang Liao

Liam Thomas

Keven Chionh

Patrick Lin

Brian Wei

Wenxin Ding

Jung Hwan Min

Peter Wu

Manuel Fernandez

Sidhanth Mohanty

Victor Xu

Gunmay Handa

Tanuj Nayak

Taisuke Yasuda

Scott Harvey-Arnold

David Neiman

David Zeng

Mikhail Ivkov

Brendan Ney

Xiaorong (Sean) Zhang

Raymond Kang

Eric Nie

Emily Zhu

Case Western Reserve University, Cleveland, OH

Benjamin Cheung

Colby College, Waterville, ME

Yin Li

Colgate University, Hamilton, NY

Kevin Christian Wibisono

THE WILLIAM LOWELL PUTNAM MATHEMATICAL COMPETITION

Colorado School of Mines, Golden, CO

Matthew Iverson

Columbia University, New York, NY

Nguyen Dung

Noah Miller

Michael Tong

Cornell University, Ithaca, NY

Shuli Chen

Sujit Rao

Alexander Xue

Aryeh Krischer

Jason Snyder

Courant Institute of Mathematical Sciences, New York University, New York, NY

Matthew Chu

Samarth Tiwari

Tatiana Ezubova

Hongkang Yang

Duke University, Durham, NC

Trung Can

Joey Li

Shicheng Rao

Alexandru Damian

Liang Lyu

Xunjing Wei

East Los Angeles College, Monterey Park, CA

Bingyue Bei

George Mason University, Fairfax, VA

Julian Benali

Marvin Castellon

Georgia Institute of Technology, Atlanta, GA

Shyamal Patel

Kalen Patton

Grinnell College, Grinnell, IA

Jonathan Sadun

Ge Zhi

Harvard University, Cambridge, MA

Zihong Chen

Mark Kong

Vaughan McDonald

Serina Hu

Allen Liu

Alec Sun

Harvey Mudd College, Claremont, CA

Jordan Haack

Steven Litvack-Winkler

Daniel Zhang

Christopher Hoyt

Christopher McElroy

Jacky Lee

Olivia Watkins

THE WILLIAM LOWELL PUTNAM MATHEMATICAL COMPETITION

Haverford College, Haverford, PA

Kaito Nakatani

Indian University, Bloomington, Bloomington, IN

Baptiste Dejean

Indiana University South Bend, South Bend, IN

Phillip Marmorino

Iowa State University, Ames, IA

Matthew Slane

Johns Hopkins University, Baltimore, MD

Jasen Zhang

Xudong Zheng

Kalamazoo College, Kalamazoo, MI

Abhay Goel

Jacob Naranjo

Lehigh University, Bethlehem, PA

Chesphongphach Buranasilp

Massachusetts Institute of Technology, Cambridge, MA

Bryan Chen

Jason Lu

Suchan Vivatsethachai

Matthew Ellison

Eric Lu

Thuy-Duong Vuong

Rogers Epstein

Faraz Masroor

Tony Wang

Saroja Erabelli

Gabriel Mintzer

Kuo-An Wei

Zachary Farr

Saranesh Prembabu

Julian Wellman

Maxwell Fishelson

Jacob Pritzker

Sze Nga Wong

Meghal Gupta

Oron Propp

Lisa Yang

Kaarel Haenni

Pachara Sawettamalya

Richard Yi

Satvat Jagwani

Aaditya Singh

Kendall Yu

Sujay Kazi

Jack Spilecki

Justin Lim

Yotaro Sueoka

McGill University, Montreal, QC, Canada

Ndiame Ndiaye

Gueorgui Savadjiev

THE WILLIAM LOWELL PUTNAM MATHEMATICAL COMPETITION

Miami University, Oxford, OH

Robert Krueger

Northwestern University, Evanston, IL

Ruohong Zhang

Timothy Zhou

Oberlin College, Oberlin, OH

Liam Axon

Princeton University, Princeton, NJ

Nathan Bergman

Alexandre de Faveri

Samuel Mathers

Jackson Blitz

Simona Diaconu

Zachary Stier

Joao Cesar Campos Vargas

Bill Huang

Roger Van Peski

Kapil Chandran

Fatih Kaleoglu

Jacob Wachspres

Serban Eugen Cicortas

Alec Leng

Purdue University, West Lafayette, IN

Simon Langowski

Queens College, Flushing, NY

Moshe Dinowitz

Rensselaer Polytechnic Institute, Troy, NY

Owen Goff

Rice University, Houston, TX

Mark Saving

Anh Tran

Rochester Institute of Technology (RIT), Rochester, NY

Lucas Stefanic

Rowan University, Glassboro, NJ

Patrick Bray

Rutgers University, Piscataway, NJ

Terence Coelho

Steve Hsu

Anton Maliev

San Jose State University, San Jose, CA

Phat Nguyen

THE WILLIAM LOWELL PUTNAM MATHEMATICAL COMPETITION

Simon Fraser University, Burnaby, BC, Canada

Ningxin Wei

Skidmore College, Saratoga Springs, NY

Kaifeng Yang

Stanford University, Stanford, CA

Bryce Cai

Sagnik Majumder

Brian Zhang

Andrew Chen

Yelena Mandelshtam

Nina Zubrilina

Pengda Liu

Sam Redmond

Stony Brook University, Stony Brook, NY

Joe Suk

Swarthmore College, Swarthmore, PA

Vickram Rajendran

Tennessee Technological University, Cookeville, TN

Muzakhir Amanzholov

Texas A&M University, College Station, TX

Matthew Kroesche

Jordan Lamkin

Advait Parulekar

Truman State University, Kirksville, MO

Hieu Le

Nils Palumbo

University of British Columbia Vancouver, Vancouver, BC, Canada

Dac Nhan Tam Nguyen

Lucca Siaudzionis

Brandon Zhang

University of California, Berkeley, Berkeley, CA

Preetham Reddy Gujjula

Joshua Lin

Elliot Stahnke

Tae Hyung Kim

Gaurav Rao

Benjamin Wu

James Leng

Xingyou Song

Borong Zhang

University of California, Davis, Davis, CA

Yupeng Li

University of California, Los Angeles, Los Angeles, CA

Anshul Adve

Yicheng Duan

Ranze Xie

Osman Akar

Bryan Hu

Junfu Chen

Eric Wang

THE WILLIAM LOWELL PUTNAM MATHEMATICAL COMPETITION

University of California, Santa Barbara, Santa Barbara, CA

Ethan Epperly

Alex Xu

University of California, Irvine, Irvine, CA

Zhijing Wang

University of California, San Diego, La Jolla, CA

Maxwell Morehead

Alexander Wong

Yichi Zhang

University of Chicago, Chicago, IL

Fiona Brady

Pranav Nanga

Carson Collins

Siang Tseng

University of Illinois at Urbana – Champaign, Urbana, IL

Ziyi Chen

Phillip Harris

Zhonglue Wang

Samuel Guo

Dun Ma

University of Maryland, College Park, College Park, MD

Justin Hontz

Pratik Rathore

Jason Zou

University of Massachusetts Amherst, Amherst, MA

James Hagborg

University of Michigan, Ann Arbor, Ann Arbor, MI

Shiliang Gao

Alexey Nigin

Juntai Zhou

William Garland

Xuzhi Zhang

University of Minnesota, Twin Cities, Minneapolis, MN

Beren Gunsolus

Utkarsh Koshti

Nicholas White

University of Nebraska – Lincoln, Lincoln, NE

Alex Heitzman

Zachary Warneke

University of North Carolina – Chapel Hill, Chapel Hill, NC

Shengding Sun

Robert Zeller

University of Notre Dame, Notre Dame, IN

Schoenbauer Matthew

University of Oklahoma, Norman, OK

Andy Jarnevic

Benjamin Thompson

THE WILLIAM LOWELL PUTNAM MATHEMATICAL COMPETITION

University of Pennsylvania, Philadelphia, PA

Brandon Lin

Pedro Sacramento de Oliveira

William Wang

University of Rochester, Rochester, NY

David Soukup

University of Texas at Austin, Austin, TX

Joseph Downs

Michael Lange

Ewin Tang

Jackson Hall

Alexander Li

Jeffrey Huang

Wyatt Reeves

The University of Texas at Dallas, Richardson, TX

Otto Osterman

University of Toronto, Toronto, ON, Canada M4K

Rafael Aznar

Adrian Carpenter

Anthony Moshe Roitman

University of Washington, Seattle, WA

Everett Cheng

Jifan Zhang

University of Waterloo, Waterloo, ON, Canada

Sina Abbasi

Ting Han (Tony) Hu

Erlang Surya

Felix Bauckholt

Simon Huang

Xinyu (Lily) Wang

Joakim Blikstad

Jacob Jackson

Spencer Whitehead

Clive Chan

Andrew Jay

Jun Yan

Robert Cummings

Yesung Jung

Jason Yuen

Thinula De Silva

Andean Medjedovic

Yangrong Zhao

University of Wisconsin – Madison, Madison, WI

Xiixin Li

Liding Yao

Villanova University, Villanova, PA

Mathias Wanner

Virginia Tech, Blacksburg, VA

Peter Steele

Wake Forest University, Winston–Salem, NC

Linde Yang

THE WILLIAM LOWELL PUTNAM MATHEMATICAL COMPETITION

Washington and Lee University, Lexington, VA

Hung Chu

Washington University in St. Louis, University City, St. Louis, MO

Matthew Ehren

Alexander Mason

Joseph Walegir

Caleb Ji

Stella Schindler

Wesleyan University, Middletown, CT

Samuel Bidwell

Di Chen

Western Washington University, Bellingham, WA

Sean Haight

Williams College, Williamstown, MA

Daishiro Nishida

Hunter Wieman

Minh Tuan Tran

Ruichen Wu

Yale University, New Haven, CT

Alexander Atanasov

Noah Kravitz

Hien Chi Tong

Jau Tung Chan

Matthew Larson

Yunus Tuncbilek

Alexander Cohen

Eliot Levmore

Lifeng Wang

Elaine Hou

Andrew Salmon

Christopher Xue

Anthony Ji

Alexander Schlesinger

York University, Toronto, ON, Canada

Jordan Teitelbaum