



William Lowell  
**PUTNAM**  
Mathematical Competition

## **ANNOUNCEMENT OF WINNERS**

of the eightieth competition held on December 7, 2019

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

### **THE PUTNAM FELLOWS – THE FIVE HIGHEST RANKING INDIVIDUALS**

Each receives an award of \$2,500.

ASHWIN SAH	Massachusetts Institute of Technology
KEVIN SUN	Massachusetts Institute of Technology
YUAN YAO	Massachusetts Institute of Technology
SHENGTONG ZHANG	Massachusetts Institute of Technology
DANIEL ZHU	Massachusetts Institute of Technology

### **THE NEXT ELEVEN HIGHEST RANKING INDIVIDUALS**

Each receives an award of \$1,000.

ADAM ARDEISHAR	Massachusetts Institute of Technology
ANKAN BHATTACHARYA	Ohio State University
ANDREW GU	Massachusetts Institute of Technology
DAVID KEWEI LIN	Stanford University
ALLEN LIU	Massachusetts Institute of Technology
JUNYAO PENG	Massachusetts Institute of Technology
QIUYU REN	Massachusetts Institute of Technology
CARL SCHILDKRAUT	Massachusetts Institute of Technology
MIHIR SINGHAL	Massachusetts Institute of Technology
RUI YAO	Massachusetts Institute of Technology
WILLIAM ZHAO	Massachusetts Institute of Technology

### **THE NEXT TWELVE HIGHEST RANKING INDIVIDUALS**

Each receives an award of \$250.

JIYANG GAO	Massachusetts Institute of Technology
DAIN KIM	Massachusetts Institute of Technology
MYEONHU KIM	Columbia University
TINGCHUN LIN	Massachusetts Institute of Technology
DANIEL LIU	Massachusetts Institute of Technology
KEVIN LIU	Massachusetts Institute of Technology
ESHAAN NICHANI	Massachusetts Institute of Technology
MICHAEL REN	Massachusetts Institute of Technology
VICTOR RONG	Massachusetts Institute of Technology

## THE WILLIAM LOWELL PUTNAM MATHEMATICAL COMPETITION

SHELDON KIEREN TAN  
FRANKLYN WANG  
JACOB ZHANG

Harvard University  
Harvard University  
University of California, Los Angeles

### HONORABLE MENTION – INDIVIDUALS

RAUL ALCANTARA, Massachusetts Institute of Technology  
KIRIL BANGACHEV, Princeton University  
ADAM BERTELLI, Carnegie Mellon University  
VINCENT BIAN, Massachusetts Institute of Technology  
JACKSON BLITZ, Princeton University  
CIPRIAN BONCIOCAT, University of California, Los Angeles  
KRIT BOONSIRISETH, Massachusetts Institute of Technology  
MERRICK CAI, Massachusetts Institute of Technology  
IAN CHEUNG, University of Waterloo  
SUCHAKREE CHUELUECHA, Lehigh University  
ALEXANDRU DAMIAN, Duke University  
QUANG DAO, Columbia University  
KAAN DOKMECI, Massachusetts Institute of Technology  
THOMAS DRAPER, Brigham Young University  
JUNHAO FAN, University of California Berkeley  
SWAPNIL GARG, Massachusetts Institute of Technology  
ALBERT GEVORGYAN, University of Waterloo  
EDWARD HOU, Carnegie Mellon University  
JEFFREY HUANG, University of Texas, Austin  
VINCENT HUANG, Massachusetts Institute of Technology  
JUNGHYUN HWANG, Duke University  
SEBASTIAN JEON, Massachusetts Institute of Technology  
AKSHAJ KADAVERU, Massachusetts Institute of Technology  
FATIH KALEOGLU, Princeton University  
SEHUN KIM, Harvard University  
PHUC LAM, University of Rochester  
EUGENE LEE, Carnegie Mellon University  
AUSTIN LEI, University of California Berkeley  
ALEXANDER LI, University of Texas, Austin  
JEFFERY LI, Massachusetts Institute of Technology  
SAMUEL LI, University of Toronto  
YII LI, Duke University  
ANDREW LIN, Massachusetts Institute of Technology  
DACHEY LIN, University of Texas, Austin  
JAMES LIN, Massachusetts Institute of Technology  
DYLAN LIU, Massachusetts Institute of Technology  
JASON LIU, University of Nevada, Reno  
STEVEN LIU, Massachusetts Institute of Technology  
FRANK LU, Princeton University  
MICHAEL MA, Massachusetts Institute of Technology  
ERIK METZ, University of Maryland, College Park

ALEKSA MILOJEVIC, Princeton University  
JOHN MISTELE, Stanford University  
SRIJON MUKHERJEE, Massachusetts Institute of Technology  
ADITYA PARULEKAR, University of Texas, Austin  
LAURA PIERSON, Harvard University  
QI QI, Massachusetts Institute of Technology  
CARL JOSHUA QUINES, Massachusetts Institute of Technology  
SEYOON RAGAVAN, Princeton University  
BRIAN REINHART, Massachusetts Institute of Technology  
KEVIN REN, Massachusetts Institute of Technology  
PEDRO SACRAMENTO, University of Pennsylvania  
DILHAN SALGADO, Carnegie Mellon University  
SIVAKORN SANGUANMOO, University of Wisconsin, Madison  
GIAN CORDANA SANJAYA, University of Waterloo  
MEHTAAB SAWHNEY, Massachusetts Institute of Technology  
TRISTAN SHIN, Massachusetts Institute of Technology  
ALEC SUN, Harvard University  
KAI SUN, University of Waterloo  
COLIN TANG, Massachusetts Institute of Technology  
MICHAEL TANG, Massachusetts Institute of Technology  
ANZO ZHAO YANG TEH, University of Waterloo  
ANTON TRYGUB, Massachusetts Institute of Technology  
SAAKETH VEDANTAM, Massachusetts Institute of Technology  
RAN WANG, Yale University  
SHIHYU WANG, Massachusetts Institute of Technology  
STANLEY WANG, Massachusetts Institute of Technology  
ZHUOFAN XIE, Massachusetts Institute of Technology  
CHRIS XU, Massachusetts Institute of Technology  
GUANPENG XU, Massachusetts Institute of Technology  
ALAN YAN, Princeton University  
RUZHANG YANG, University of Illinois at Urbana-Champaign  
RICHARD YI, Massachusetts Institute of Technology  
GRANT YU, Stony Brook University  
HUNG-HSUN YU, Massachusetts Institute of Technology  
RUNZE YU, University of California, Los Angeles  
HANZHI ZHENG, Stanford University  
BAIQING ZHU, University of California, Los Angeles  
KAIQI ZHU, University of California, Los Angeles  
YIFAN ZHU, Stanford University

# THE WILLIAM LOWELL PUTNAM MATHEMATICAL COMPETITION

## ELIZABETH LOWELL PUTNAM PRIZE

Each receives an award of \$1,000.

LAURA PIERSON

QI QI

HANZHI ZHENG

Harvard University

Massachusetts Institute of Technology

Stanford University

## WINNING TEAMS

Rank	School	Team Members (in alphabetical order)
1	MASSACHUSETTS INSTITUTE OF TECHNOLOGY	Ashwin Sah, Shengtong Zhang, Daniel Zhu
2	HARVARD UNIVERSITY	Sehun Kim, Sheldon Kieren Tan, Franklyn Wang
3	STANFORD UNIVERSITY	David Kewei Lin, John Mistele, Hanzhi Zheng, Yifan Zhu
4	UNIVERSITY OF CALIFORNIA, LOS ANGELES	Ciprian Bonciocat, Jacob Zhang, Kaiqi Zhu
5	UNIVERSITY OF WATERLOO	Gian Cordana Sanjaya, Kai Sun, Anzo Zhao Yang Teh

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, respectively. For third place, \$15,000 and \$600; for fourth place, \$10,000 and \$400; for fifth place, \$5,000 and \$200. Where four names are mentioned, there was a tie for third place at that institution.

## HONORABLE MENTION – TEAMS

Listed by university in alphabetical order.

CARNEGIE MELLON UNIVERSITY  
COLUMBIA UNIVERSITY  
PRINCETON UNIVERSITY  
UNIVERSITY OF CALIFORNIA, BERKELEY  
UNIVERSITY OF TEXAS, AUSTIN

Edward Hou, Eugene Lee, Dilhan Salgado  
Quang Dao, Myeonhu Kim, Matthew Lerner-Brecher  
Kiril Bangachev, Aleksa Milojevic, Seyoon Ragavan, Alan Yan  
Junhao Fan, Haydn Gwyn, Austin Lei, Tyler Zhu  
Jeffrey Huang, Alexander Li, Dachev Lin, Aditya Parulekar

## THE WILLIAM LOWELL PUTNAM MATHEMATICAL COMPETITION WAS PREPARED BY:

ANDREW BERNOFF, Harvey Mudd College – Member of the Problems Committee  
IOANA DUMITRIU, University of California, San Diego – Chair of the Problems Committee  
ROBIN PEMANTLE, University of Pennsylvania – Member of the Problems Committee  
DANIEL ULLMAN, George Washington University – Director of the Competition  
MARK KRUSEMEYER, Carleton College – Associate Director of the Competition

# THE WILLIAM LOWELL PUTNAM MATHEMATICAL COMPETITION

## Score–Rank Correspondence

Score	Rank	Score	Rank	Score	Rank	Score	Rank	Score	Rank	Score	Rank	Score	Rank
120	1	90	19	68	41	53	84.5	38	192	24	384	10	1088.5
119	2.5	89	20	67	43.5	52	86.5	37	199	23	403	9	1235.5
117	4	87	21	66	45	51	90.5	36	206	22	436	8	1368
103	5	85	22	65	47	50	101	35	212	21	478.5	7	1483
102	6	82	23	64	49	49	114	34	218.5	20	532	6	1558
101	7.5	81	24	63	51	48	122	33	227	19	585.5	5	1606.5
100	9	80	26.5	62	53.5	47	126.5	32	236.5	18	627	4	1680.5
99	10	79	29.5	61	56.5	45	129.5	31	249.5	17	667	3	1831.5
98	11	76	31	60	61.5	44	133.5	30	276	16	698	2	2103
97	12.5	75	32	59	67	43	138	29	306.5	15	722	1	2447.5
95	14	73	33	58	73	42	143.5	28	327.5	14	758.5	0	3428
94	15.5	72	34.5	57	77	41	153	27	344.5	13	807.5		
92	17	71	37	56	79	40	168	26	360	12	879		
91	18	69	39	54	82	39	183.5	25	371.5	11	970		

## Frequency Distribution of Problem Scores of the Top 414 Contestants

Score	A1	A2	A3	A4	A5	A6	B1	B2	B3	B4	B5	B6
10	207	290	128	36	72	8	189	92	41	25	138	59
9	38	19	6	5	21	7	106	20	2	8	13	0
8	84	10	1	2	4	2	21	4	1	3	7	0
7	17	0	0	0	4	0	14	0	2	2	0	0
6	0	4	0	0	0	1	0	0	0	0	0	0
5	0	0	0	0	5	0	0	0	0	0	0	3
4	32	0	1	0	4	0	0	4	0	15	1	0
3	9	0	0	0	2	1	2	1	0	11	0	0
2	4	4	58	2	7	2	54	1	7	10	9	93
1	4	5	12	4	33	8	8	2	4	9	10	7
0	9	42	87	109	95	80	14	135	162	52	81	32
NA	10	40	121	256	167	305	6	155	195	279	155	220

# THE WILLIAM LOWELL PUTNAM MATHEMATICAL COMPETITION

## Students Ranked 1–192

Listed by university in alphabetical order.

### Arizona State University, Tempe, AZ

Walker Kroubalkian

Liam Lawson

### Brigham Young University, Provo, UT

Thomas Draper

Daniel South

### California Institute of Technology, Pasadena, CA

Haoxuan Chen

Jing Ding

### Carnegie Mellon University, Pittsburgh, PA

Maxwell Aires

Omar Alrabiah

Adam Bertelli

Yucheng Dai

Samuel Delatore

Howard Halim

Edward Hou

Konwoo Kim

Taekseung Kim

Thomas Lam

Eugene Lee

Edwin Peng

Dilhan Salgado

Khunpob Sereesuchart

Evan Wu

Zimu Xiang

Daniel Zeng

Brad Zhang

### Columbia University, New York City, NY

Rafay Ashary

Quang Dao

Myeonhu Kim

Matthew Lerner-Brecher

### Duke University, Durham, NC

Feng Cong

Alexandru Damian

Junghyun Hwang

Yi Li

### Florida State University, Tallahassee, FL

Graham O'Donnell

### Harvard University, Cambridge, MA

Serina Hu

Sehun Kim

Mark Kong

Laura Pierson

Alec Sun

Sheldon Kieren Tan

Franklyn Wang

# THE WILLIAM LOWELL PUTNAM MATHEMATICAL COMPETITION

## Lehigh University, Bethlehem, PA

Suchakree Chueluecha

## Massachusetts Institute of Technology, Cambridge, MA

Raul Alcantara	Michael Kural	Qi Qi	Shihyu Wang
Adam Ardeishar	Nurullah Giray Kuru	Carl Joshua Quines	Stanley Wang
Vincent Bian	Jeffery Li	Brian Reinhart	Xunjing Wei
Krit Boonsiriseth	Andrew Lin	Kevin Ren	Julian Wellman
Merrick Cai	James Lin	Michael Ren	Catherine Wu
Anton Cao	Tingchun Lin	Qiuyu Ren	Farrell Eldrian Wu
Zachary Chroman	Allen Liu	Victor Rong	Yuqing Xie
Kaan Dokmeci	Daniel Liu	Ashwin Sah	Zhuofan Xie
Jiyang Gao	Dylan Liu	Mehtaab Sawhney	Chris Xu
Swapnil Garg	Kevin Liu	Carl Schildkraut	Guanpeng Xu
Andrew Gu	Steven Liu	Tristan Shin	Rui Yao
Milan Haiman	Victor Luo	Mihir Singhal	Yuan Yao
Alina Harbuzova	Michael Ma	Kevin Sun	Richard Yi
Calvin Hsu	Lingjie Mei	Colin Tang	Joshua Yoon
Vincent Huang	Srijon Mukherjee	Michael Tang	Hung-Hsun Yu
Sebastian Jeon	Eshaan Nichani	Anton Trygub	Shengtong Zhang
Akshaj Kadaveru	Anders Olsen	Saaketh Vedantam	Freddie Zhao
Sujay Kazi	Alan Peng	Allen Wang	William Zhao
Dain Kim	Junyao Peng	Daniel Wang	Daniel Zhu

## Michigan State University, East Lansing, MI

Mohit Bansil

## Northeastern University, Boston, MA

Noble Mushtak

## Ohio State University, Columbus, OH

Ankan Bhattacharya

## Princeton University, Princeton, NJ

Kiril Bangachev	Igor Medvedev
Jackson Blitz	Aleksa Milojevic
Kapil Chandran	Tristan Pollner
Atanas Dinev	Seyoon Ragavan
Fatih Kaleoglu	Stefan Tudose
Frank Lu	Alan Yan
Marko Medvedev	

## Rice University, Houston, TX

Mark Saving

## Rose-Hulman Institute of Technology, Haute, IN

Reed Phillips

# THE WILLIAM LOWELL PUTNAM MATHEMATICAL COMPETITION

## **Rutgers, State University of New Jersey, New Brunswick, NJ**

Nicholas McConnell

## **Southern Methodist University, Dallas, TX**

Phuoc Dinh Le

## **Stanford University, Stanford, CA**

David Kewei Lin

John Mistele

Siah Yong Tan

Tai Vu

William Xi

Hanzhi Zheng

Yifan Zhu

## **Stony Brook University, Stony Brook, NY**

Grant Yu

## **Swarthmore College, Swarthmore, PA**

Runze Wang

## **University of California, Berkeley, CA**

Junhao Fan

Haydn Gwyn

Austin Lei

Justin Yokota

Tyler Zhu

## **University of California, Los Angeles, CA**

Ciprian Bonciocat

Alexander Wong

Runze Yu

Jacob Zhang

Baiqing Zhu

Kaiqi Zhu

## **University of Chicago, Chicago, IL**

Vijay Srinivasan

## **University of Illinois, Urbana-Champaign, IL**

Pavle Vuksanovic

Ruzhang Yang

## **University of Maryland, College Park, MD**

Steppan Konoplev

Erik Metz

# THE WILLIAM LOWELL PUTNAM MATHEMATICAL COMPETITION

## **University of Michigan, Ann Arbor, MI**

Zijian Cheng

## **University of Nevada, Reno, NV**

Jason Liu

## **University of Pennsylvania, Philadelphia, PA**

Pedro Sacramento

## **University of Rochester, Rochester, NY**

Phuc Lam

## **University of Texas, Austin, TX**

Jeffrey Huang

Alexander Li

Dachey Lin

Aditya Parulekar

## **University of Toronto, Toronto, ON, Canada**

Tony An

Ruotong Cheng

Samuel Li

Jing Wang

## **University of Washington, Seattle, WA**

Dalai Chadraa

## **University of Waterloo, Waterloo, ON, Canada**

Ian Cheung

Yen-Kang Fu

Albert Gevorgyan

Gian Cordana Sanjaya

Gary Sun

Kai Sun

Nicholas Sun

Anzo Zhao Yang Teh

Valentino Dante Tjowasi

Timothy Jacob Wahyudi

Scott Xu

Jun Yan

## **University of Wisconsin, Madison, WI**

Sivakorn Sanguanmoo

Ruiting Tong

## **Washington University, St. Louis, MO**

Jongwhan Park

Dawei Shen

Nathan Smith

## **Yale University, New Haven, CT**

Ashwin Agnihotri

Ran Wang



THE WILLIAM LOWELL PUTNAM MATHEMATICAL COMPETITION

**Students Ranked 199–478.5**

Listed by university in alphabetical order.

**Amherst College, Amherst, MA**

Ethan Spingarn

**Arizona State University, Tempe, AZ**

Aareyan Manzoor

Tanner Reese

**Bard College at Simon's Rock, Great Barrington, MA**

Jianxiang Cui

**Baruch College, New York City, NY**

Cheng Ni

**Bob Jones University, Greenville, SC**

Erick Ross

**Boston University, Boston, MA**

Shousen Lu

**Bowdoin College, Brunswick, ME**

Nawapan Wattanawanichkul

**Brown University, Providence, RI**

Alexander Bauman

Carter Cobb

James Ding

Nikolai Illarionov

Derik Kauffman

Elliott Lehrer

Zhiyua Zhou

**California Institute of Technology, Pasadena, CA**

August Chen

Akshay Gowrishankar

Wenyan Guan

Vinayak Kumar

Mayank Pandey

Daniel Zhou

**Carleton College, Northfield, MN**

Wasin Meesena

## THE WILLIAM LOWELL PUTNAM MATHEMATICAL COMPETITION

### **Carnegie Mellon University, Pittsburgh, PA**

Zhijie Chen	Philip Lamkin	An Tang
Winston Cheung	Zack Lee	Chittesh Thavamani
Shaan Dave	William Liu	Liam Thomas
Evan Fang	Yipeng Liu	Haveesh Viswanatha
Yuqi Gong	Ethan Lu	Bo Wu
Haiwei Gu	Yiwei Lyu	Albert Xu
Gunmay Handa	Vladyslav Oleksenko	Gan Yang
Scott Harvey-Arnold	Fei Peng	Yuepeng Yang
Eric Huang	Geyang Qin	Gregory Zelevinsky
Mikhail Ivkov	Matthew Shi	Siqi Zeng
Callan Jacobus	Wenze Shi	Hongyi Zhou
Rohit Kopparthy	Jung Joo Suh	Kevin Zhou
Vinod Krishnamoorthy	Justin Sun	

### **Carthage College, Kenosha, WI**

David Zikel

### **Centre College, Danville, KY**

Wangdong Jia

### **Colby College, Waterville, ME**

Qidong He

### **Colorado College, Colorado Springs, CO**

Ioan Vladimir Vintu

### **Columbia University, New York City, NY**

Gregory Pershing  
Zhenfeng Tu  
Anton Wu  
Tianyu Zhang  
Jesse Zhong

### **Cornell University, Ithaca, NY**

Ritwick Bhargava  
Sofya Bykova  
Qingxuan Jiang  
Aaron Lou  
Mikhail Molodyk  
Daniel Sarnecki  
Arthur Tanjaya

### **Dalhousie University, Halifax, NS, Canada**

Xiaoyu Jia

### **Dartmouth College, Hanover, NH**

Eashwar Sivarajan

## THE WILLIAM LOWELL PUTNAM MATHEMATICAL COMPETITION

### **De Anza College, Cupertino, CA**

Hoang Duc

### **Duke University, Durham, NC**

Muchang Bahng

Xinchun Hu

Daniel Hwang

Steven Li

Jerry Liu

Yijia Liu

Shicheng Rao

Zeyu Shen

Haoyang Yu

Yinhong Zhao

### **George Mason University, Fairfax, VA**

Matthew Kearney

### **Georgia Institute of Technology, Atlanta, GA**

Mridul Bansal

Tolson Bell

Jeffrey Chang

Alvin Chiu

Daniel Hathcock

Shyamal Patel

Kalen Patton

Matthew York

Eric Zhu

### **Harvard University, Cambridge, MA**

Noah Fechterpradines

Gaurav Goel

Aayush Karan

Allen Liu

Andrew Lu

Siva Muthupalaniappan

Sean Anderson Ty

William Zhang

Fan Zhou

### **Harvey Mudd College, Claremont, CA**

Isabella Duan

Mathus Leungpathomaram

Xuming Liang

Steven Litvack-Winkler

Mengyi Shan

# THE WILLIAM LOWELL PUTNAM MATHEMATICAL COMPETITION

## Haverford College, Haverford, PA

Aaron Kriegman  
Joao Pedro Mello De Carvalho

## Johns Hopkins University, Baltimore, MD

Daniel Chu  
Kyle Gatesman

## Lehigh University, Bethlehem, PA

Chesphongphach Buranasilp

## Massachusetts Institute of Technology, Cambridge, MA

Aruzhan Amanbayeva	Mark Jabbour	Yuting Qin
Amir Hizami Anuar	Edwardd Jin	Nikhil Reddy
Daniel Barnett	Gabriel Kammer	Dhruv Rohatgi
Matthew Cho	Ryan Kim	Aleksandre Saatashvili
Zawad Chowdhury	Daishi Kiyohara	Maya Sankar
Haimoshri Das	Aleksa Konstantinov	Toomas Tennisberg
Freya Edholm	Jason Lu	Wendy Wu
Matthew Ellison	Richard Luhtaru	Hanna Yang
Siwakorn Fuangkawinsombut	Jeremy McCulloch	Rahul Yesantharao
Alexander Gu	Gabriel Mintzer	Michael Zhang
Joseph Heeren	Peter Mizes	Wayne Zhao
Shawn Im	Zachary Obsniuk	

## McGill University, Montreal, QC, Canada

Khoi Nguyen

## Michigan State University, East Lansing, MI

Neel Modi  
Luke Wiljanen

## New York University, New York City, NY

Aadil Bhore  
Daniil Glukhovskiy  
Zixiao Yang

## Northwestern University, Evanston, IL

Akhil Kalghatgi  
Nikhil Kalghatgi  
Hoan Nguyen

## Oberlin College, Oberlin, OH

Liam Axon

# THE WILLIAM LOWELL PUTNAM MATHEMATICAL COMPETITION

## **Ohio State University, Columbus, OH**

Jake Huryn  
Rushil Raghavan  
Dennis Sweeney

## **Ohio University, Athens, OH**

James Foley

## **Princeton University, Princeton, NJ**

George Bentley  
Nathan Bergman  
Daniel Carter  
Byron Chin  
David Fitzpatrick  
Katherine Forbes  
Alec Leng  
Zachary Stier  
Xiaorun Wu  
Kai Zheng

## **Purdue University, Lafayette, IN**

Simon Langowski  
Zijie Zhou

## **Reed College, Portland, OR**

Daniel Zou

## **Rice University, Houston, TX**

Mark Helman  
Shaquille Wyan Que  
Peter Zhu

## **Rose-Hulman Institute of Technology, Haute, IN**

Zixin Fan

## **Rutgers, State University of New Jersey, New Brunswick, NJ**

Michael Wang  
Jianning Yang

## **Southern Connecticut State University, New Haven, CT**

David Diaz

## **Stanford University, Stanford, CA**

Pengda Liu  
Ian Ruohoniemi  
William Wang

# THE WILLIAM LOWELL PUTNAM MATHEMATICAL COMPETITION

## **Stony Brook University, Stony Brook, NY**

Calvin Aw  
Charles Weng

## **Swarthmore College, Swarthmore, PA**

Eric Zhang

## **Syracuse University, Syracuse, NY**

Xuerui Yang

## **Texas State University, San Marcos, TX**

Isaiah Silaski

## **Tufts University, Medford, MA**

Phong Hoang

## **Université de Montréal, Montreal, QC, Canada**

Jonah Klein

## **University of British Columbia, Vancouver, BC, Canada**

Gurkeerat Chhina  
Kim Dinh  
Sina Saleh  
Victor Wang  
Brandon Zhang

## **University of California, Berkeley, CA**

Dhruba Ghosh  
Yuhan Jiang  
Alexander Lu  
Aaron Putterman  
Abhishek Shivkumar  
Evgenii Sizykh  
Alexander Toller  
Albert Zhang  
Tianyu Zhao

## **University of California, Los Angeles, CA**

Bryan Hu  
Arihant Jain  
Chenfei Li  
Isaac Li  
Justin Li  
Yuhan Liu  
Tang Mohan

Alexandru Pascadi  
Tachin Ruangkriengsin  
Glenn Sun  
Yan Tao  
Ken Willyard  
Hongyu Zhu

## **University of California, San Diego, CA**

Yihe Tang

# THE WILLIAM LOWELL PUTNAM MATHEMATICAL COMPETITION

## **University of California, Santa Barbara, CA**

Ethan Epperly  
Yewen Sun

## **University of California, Santa Cruz, CA**

Jason Miller

## **University of Chicago, Chicago, IL**

Jiedong Duan  
Aidan Griffin  
Trevor Moore  
Arjun Venkatraman  
Ethan Williams  
Xifan Yu

## **University of Florida, Gainesville, FL**

Carson Jones

## **University of Illinois, Urbana-Champaign, IL**

Hongyi Chen  
Samuel Guo  
Maxwell Jong  
Kieran Kaempfen  
Darwin Kim  
Dun Ma  
Yipeng Yang

## **University of Iowa, Iowa City, IA**

Nick Morrow

## **University of Louisiana, Lafayette, LA**

Christopher Bayard

## **University of Maryland, College Park, MD**

Justin Hontz  
Pratik Rathore

## **University of Massachusetts, Boston, MA**

Daniyar Aubekeroev

## **University of Michigan, Ann Arbor, MI**

Stephen Jasina  
Omer Siddiqui  
Conor Thompson  
Pohsun Wu

# THE WILLIAM LOWELL PUTNAM MATHEMATICAL COMPETITION

## **University of Minnesota, Twin Cities, Minneapolis, MN**

Beren Gunsolus  
Adam Hodapp  
Nhung Pham  
Drake Thomas

## **University of North Carolina, Chapel Hill, NC**

Luke Zeller

## **University of Notre Dame, Notre Dame, IN**

Yuxin Lin

## **University of Oregon, Eugene, OR**

Nitan Avivi Stuhl

## **University of Pennsylvania, Philadelphia, PA**

Brandon Lin

## **University of Rochester, Rochester, NY**

Trung Nguyen

## **University of Southern California, Los Angeles, CA**

Joshua Speckman

## **University of Texas, Austin, TX**

Luis Kim  
Aaron Lamoreaux  
Ruocheng Wei

## **University of Texas, Dallas, TX**

Joshua Marsh  
Otto Osterman  
Grant Zierer

## **University of Toronto, Toronto, ON, Canada**

Jennifer Guo  
Giwon Kim  
Yao Kuang  
Haining Tan  
Tang Yun-Chi  
Yukai Zhang  
Zehao Zhou

## **University of Utah, Salt Lake City, UT**

Emil Geisler



# THE WILLIAM LOWELL PUTNAM MATHEMATICAL COMPETITION

## **University of Washington, Seattle, WA**

David Cheng  
Maxwell Packer  
Omar Shaikh Omar  
Rory Soiffer

## **University of Waterloo, Waterloo, ON, Canada**

Yizhe Liu  
Alexander Monteith-Pistor  
Michael Pang  
Sebastian Regalado  
Davi Sena

## **University of Wisconsin, Madison, WI**

Ivan Hu  
Xiabin Li  
Diya Yang

## **University of Maryland, Baltimore County, Baltimore, MD**

Jackson Reynolds

## **Vanderbilt University, Nashville, TN**

Connor Lehmacher  
Dominick Xu

## **Washington University, St. Louis, MO**

Sam Heil  
Aidan Kelley  
Moses Schindler  
Joseph Walegir

## **Wesleyan University, Middletown, CT**

Yu Wang

## **Williams College, Williamstown, MA**

Alexander Shashkov  
Hunter Wieman

## **Yale University, New Haven, CT**

Jiang Anthony  
Jau Tung Chan  
Tony Hao  
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