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
KEVIN SUN
YUAN YAO
SHENTONG ZHANG
DANIEL ZHU

Massachusetts Institute of Technology

THE NEXT ELEVEN HIGHEST RANKING INDIVIDUALS
Each receives an award of $1,000.

ADAM ARDEISHAR
ANKAN BHATTACHARYA
ANDREW GU
DAVID KEWEI LIN
ALLEN LIU
JUNYAO PENG
QIUYU REN
CARL SCHILDKRAUT
MIHIR SINGHAL
RUI YAO
WILLIAM ZHAO

Massachusetts Institute of Technology
Ohio State University
Massachusetts Institute of Technology
Stanford University
Massachusetts Institute of Technology
Massachusetts Institute of Technology
Massachusetts Institute of Technology
Massachusetts Institute of Technology
Massachusetts Institute of Technology
Massachusetts Institute of Technology

THE NEXT TWELVE HIGHEST RANKING INDIVIDUALS
Each receives an award of $250.

JIYANG GAO
DAIN KIM
MYEONHU KIM
TINGCHUN LIN
DANIEL LIU
KEVIN LIU
ESHAAN NICHANI
MICHAEL REN
VICTOR RONG

Massachusetts Institute of Technology
Massachusetts Institute of Technology
Columbia University
Massachusetts Institute of Technology
Massachusetts Institute of Technology
Massachusetts Institute of Technology
Massachusetts Institute of Technology
Massachusetts Institute of Technology
Massachusetts Institute of Technology
Massachusetts Institute of Technology
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

<table>
<thead>
<tr>
<th>Name</th>
<th>Institution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Raul Alcantara</td>
<td>Massachusetts Institute of Technology</td>
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<td>Kiril Bangachev</td>
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<td>Samuel Li</td>
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<td>Dachey Lin</td>
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<td>James Lin</td>
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<td>Dylan Liu</td>
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<tr>
<td>Jason Liu</td>
<td>University of Nevada, Reno</td>
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<td>Steven Liu</td>
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<td>Frank Liu</td>
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<td>Michael Ma</td>
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<tr>
<td>Erik Metz</td>
<td>University of Maryland, College Park</td>
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<td>Aleska Milojevic</td>
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<td>John Mistele</td>
<td>Stanford University</td>
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<td>Srijon Mukherjee</td>
<td>Massachusetts Institute of Technology</td>
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<td>Aditya Parulekar</td>
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<td>Laura Pierson</td>
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<td>Qi Qi</td>
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<td>Carl Joshua Quines</td>
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<td>Seeyoon Ragavan</td>
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<td>Brian Reinhart</td>
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<td>Kevin Ren</td>
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<td>Pedro Sacramento</td>
<td>University of Pennsylvania</td>
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<tr>
<td>Dilhan Salgado</td>
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<tr>
<td>Sivakorn Sanguanmoo</td>
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<tr>
<td>Gian Cordana Sanjaya</td>
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<td>Mehtaab Sawhney</td>
<td>Massachusetts Institute of Technology</td>
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<td>Tristan Sawhney</td>
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<tr>
<td>Anzo Zhao Yang Teh</td>
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<td>Anton Trygub</td>
<td>Massachusetts Institute of Technology</td>
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<td>Saaketh Vedantam</td>
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<td>Hanzhi Zheng</td>
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<td>Yifan Zhu</td>
<td>Stanford University</td>
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THE WILLIAM LOWELL PUTNAM MATHEMATICAL COMPETITION

ELIZABETH LOWELL PUTNAM PRIZE
Each receives an award of $1,000.

LAURA PIERSO
Harvard University
QI QI
Massachusetts Institute of Technology
HANZHI ZHENG
Stanford University

WINNING TEAMS

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

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
Edward Hou, Eugene Lee, Dilhan Salgado
COLUMBIA UNIVERSITY
Quang Dao, Myeonhu Kim, Matthew Lerner-Brecher
PRINCETON UNIVERSITY
Kiril Bangachev, Alekss Milojevic, Seyoon Ragavan, Alan Yan
UNIVERSITY OF CALIFORNIA, BERKELEY
Junhao Fan, Haydn Gwyn, Austin Lei, Tyler Zhu
UNIVERSITY OF TEXAS, AUSTIN
Jeffrey Huang, Alexander Li, Dachey 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

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Frequency Distribution of Problem Scores of the Top 414 Contestants

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<th>A3</th>
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<td>279</td>
<td>155</td>
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</table>
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
Edward Hou
Dilhan Salgado
Omar Alrabiah
Konwoo Kim
Khunpob Sereesuchart
Adam Bertelli
Taekseung Kim
Evan Wu
Yucheng Dai
Thomas Lam
Zimu Xiang
Samuel Delatore
Eugene Lee
Daniel Zeng
Howard Halim
Edwin Peng
Brad Zhang

Columbia University, New York City, NY
Rafay Ashary

Florida State University, Tallahassee, FL
Sheldon Kieren Tan
Franklyn Wang

Harvard University, Cambridge, MA
Serina Hu
Shelton Kim
Mark Kong
Laura Pierson
Alec Sun
Sheldon Kieren Tan
Franklyn Wang

Duke University, Durham, NC
Feng Cong
Alexandru Damian
Junghyun Hwang
Yii Li

Harvard University, Cambridge, MA
Serina Hu
Seunghun Kim
Mark Kong
Laura Pierson
Alec Sun
Sheldon Kieren Tan
Franklyn Wang
Lehigh University, Bethlehem, PA
Suchakree Chueluecha

Massachusetts Institute of Technology, Cambridge, MA
Raúl Alcántara
Adam Ardeishar
Vincent Bian
Krit Boonsiriseth
Merrick Cai
Anton Cao
Zachary Chroman
Kaan Dokmeçi
Jiyang Gao
Swapnil Garg
Andrew Gu
Milan Haiman
Alina Harbuzova
Calvin Hsu
Vincent Huang
Sebastian Jeon
Akshaj Kadaveru
Sujay Kazi
Dain Kim
Michael Kural
Nurullah Giray Kuru
Jeffery Li
Andrew Lin
James Lin
Tingchun Lin
Allen Liu
Daniel Liu
Kevin Liu
Steven Liu
Victor Luo
Michael Ma
Lingjie Mei
Srijon Mukherjee
Eshaan Nichani
Anders Olsen
Alan Peng
Junyao Peng
Qi Qi
Carl Joshua Quines
Brian Reinhart
Kevin Ren
Michael Ren
Qiuyu Ren
Victor Rong
Ashwin Sah
Mehtaab Sawhney
Carl Schildkraut
Tristan Shin
Mihir Singhal
Kevin Sun
Colin Tang
Michael Tang
Anton Trygub
Allen Wang
Daniel Wang
Shihyu Wang
Stanley Wang
Xunjing Wei
Julian Wellman
Catherine Wu
Farrell Eldrian Wu
Yuqing Xie
Zhuofan Xie
Chris Xu
Rui Yao
Yuan Yao
Richard Yi
Joshua Yoon
Hung-Hsun Yu
Shengtong Zhang
Freddie Zhang
William Zhao
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
Jackson Blitz
Kapil Chandran
Atanas Dinev
Fatih Kaleoglu
Frank Lu
Marko Medvedev
Igor Medvedev
Aleksa Milojevic
Tristan Pollner
Seyoon Ragavan
Stefan Tudose
Alan Yan

Rice University, Houston, TX
Mark Saving

Rose-Hulman Institute of Technology, Haute, IN
Reed Phillips
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 Yu
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
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
   Zhiyuan 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
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
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
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Haverford College, Haverford, PA
Aaron Kriegman
Joao Pedro Mello De Carvalho

Johns Hopkins University, Baltimore, MD
Daniel Chu
Kyle Gatesman

Lehigh University, Bethlehem, PA
Chespophgphach 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
Aleksandra Saatashvili
Zawad Chowdhury
Daishi Kiyohara
Maya Sankar
Haimoshri Das
Alessandra Konstantinov
Toomas Tennisberg
Freya Edholm
Jason Lu
Wendy Wu
Matthew Ellison
Richard Luhtaru
Hanna Yang
Siwakorn Fuangkawsombut
Jeremy McCulloch
Rahul Yesanharao
Alexander Gu
Gabriel Mintzer
Michael Zhang
Joseph Heerens
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
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
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
   Arshant Jain
   Chenfei Li
   Isaac Li
   Justin Li
   Yuhan Liu
   Tang Mohan

University of California, San Diego, CA
   Yihe Tang

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

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
Xiaxin 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
Matthew Li
Steven Ma
Noah Montgomery
William Sun
Fred Zhang