ANNOUNCEMENT OF WINNERS
of the eighty-fourth competition held on December 2, 2023

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.

Ankit Bisain Massachusetts Institute of Technology
Jiangqi Dai Massachusetts Institute of Technology
Papon Lapate Massachusetts Institute of Technology
Brian Liu Massachusetts Institute of Technology
Luke Robitaille Massachusetts Institute of Technology

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

Mingyang Deng Massachusetts Institute of Technology
Andrew Gu Harvard University
Michael Li University of Toronto
Sean Li Massachusetts Institute of Technology
Derek Liu Massachusetts Institute of Technology
Maximus Lu Massachusetts Institute of Technology
Zhao Yu Ma Massachusetts Institute of Technology
Aloysius Ng Massachusetts Institute of Technology
Eric Shen Massachusetts Institute of Technology
Tomasz Slusarczyk Massachusetts Institute of Technology
Kaixin Wang Duke University
THE NEXT TEN HIGHEST-RANKING INDIVIDUALS

Each receives an award of $250.

Reagan Choi Massachusetts Institute of Technology
Kevin Cong Harvard University
Rishabh Das Massachusetts Institute of Technology
Arav Karighattam Harvard University
Huaye Lin Massachusetts Institute of Technology
Eric Shen Harvard University
Brandon Wang Massachusetts Institute of Technology
William Wang Massachusetts Institute of Technology
Daniel Xia Massachusetts Institute of Technology
Rowechen Zhong Massachusetts Institute of Technology

HONORABLE MENTION — INDIVIDUALS (RANKS 26-100)

Jack Albright, Stanford University
Serena An, MIT
Nithid Anchaleenukoon, MIT
Gradin Anderson, Brigham Young University
Asha Basu, McGill University
Daniel Benavides, MIT
Tomas Cantu, MIT
Ruben Carpenter, Yale University
Tristan Chaang, MIT
Alvin Chen, MIT
Brandon Chen, MIT
Jeffrey Chen, MIT
Quanlin Chen, Stanford University
Raphael Dylan Dalida, MIT
Sanjana Das, MIT
Caleb Dastrup, Brigham Young University
Robert Dragomirescu, Stanford University
Yundi Duan, University of Waterloo
Raymond Feng, MIT
Gopal Goel, MIT
Ram Goel, MIT
Alex Gu, MIT
Anshul Guha, Yale University
Thomas Guo, MIT
Paul Hamrick, University of North Carolina, Chapel Hill

Daniel Hong, MIT
Vidur Jasuja, MIT
Benjamin Kang, MIT
Richard Kang, University of Waterloo
Aaron Alvarado Kristanto Julistiono, MIT
Antoine Labelle, McGill University
Tuong Le, University of Michigan
Daeho Lee, MIT
Jason Liu, MIT
Evan Lu, MIT
Andrei Mandelshtam, Stanford University
Edis Memis, Harvard University
Kevin Min, MIT
Josiah Moltz, Binghamton University
SUNY
Holden Mui, MIT
Atul Shatavart Nadig, MIT
Athrva Pathak, Princeton University
Hung Pham, University of Chicago
Gregory Pylypovych, MIT
Pitchayut Saengthongkongka, MIT
Eric Yuang Shao, Columbia University
Matthew Snodgrass, Carnegie Mellon University
Maxwell Sun, MIT
Rui Sun, MIT

Kenta Suzuki, MIT
Adam Tang, Harvey Mudd College
Vincent Trang, University of Maryland, College Park
Alan Vladimiroff, MIT
Mateja Vukelic, MIT
Albert Wang, MIT
Anthony Wang, MIT
Frank Wang, MIT
Jaedon Whyte, MIT
Gabriel Wu, Harvard University
Kevin Wu, MIT
Yichen Xiao, MIT
Edward Xiong, MIT
Alex Xu, University of Michigan
Daniel Xu, MIT
Justin Yu, MIT
Daniel Yuan, University of Maryland, College Park
William Yue, MIT
Franklin Zhang, University of Illinois
Hankai Zhang, MIT
Ethan Zhou, MIT
Zixiang (Peter) Zhou, MIT
Isaac Zhu, MIT
Isabella Zhu, MIT
ELIZABETH LOWELL PUTNAM PRIZE
She receives an award of $1,000.

Isabella Zhu Massachusetts Institute of Technology

WINNING TEAMS

<table>
<thead>
<tr>
<th>Rank</th>
<th>School</th>
<th>Team Members (in alphabetical order)</th>
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<tbody>
<tr>
<td>1</td>
<td>Massachusetts Institute of Tech</td>
<td>Ankit Bisain</td>
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<td>Papon Lapate</td>
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<td>Arav Karighattam</td>
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<td>3</td>
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<td>Quanlin Chen</td>
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<td>University of Toronto</td>
<td>Ethan Bottomley-Mason</td>
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</table>

The institution with the first-place team receives an award of $25,000, and each member of the team receives $1,000. The team and member awards for second place are $20,000 and $800, respectively; for third place, $15,000 and $600; for fourth place, $10,000 and $400; and for fifth place, $5,000 and $200.
HONORABLE MENTION — TEAMS
(RANKS 6-10)

Listed by university in alphabetical order. Where four students are listed, there was a tie for third-highest individual score at that institution.

<table>
<thead>
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<th>School</th>
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PUTNAM PROBLEMS COMMITTEE:
Brian Hunt, University of Maryland, College Park
Karl Mahlburg (Chair), Susquehanna International Group
Greta Panova, University of Southern California

CONTRIBUTORS OF ADDITIONAL PROBLEMS FOR THE COMPETITION:
Gabriel Carroll, University of Toronto
David Grabiner, Department of Defense
Darij Grinberg, Drexel University
Michael Larsen, University of Indiana
Richard Stanley, Massachusetts Institute of Technology and University of Miami

COMPETITION LEADERSHIP:
Daniel Ullman (Director), George Washington University
Paul Zeitz (Associate Director), University of San Francisco
**SCORE-TO-RANK CORRESPONDENCE**

A participant is said to have rank $n$ if $n-1$ participants scored higher.

<table>
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## Frequency Distribution of Problem Scores of the Top 516 Contestants

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STUDENTS RANKED 101-200
Listed by university in alphabetical order

Amherst College, Amherst, MA
William Han
Alan Li

Arizona State University, Tempe, AZ
Sahaj Rastogi

Brown University, Providence, RI
Luke Choi
Maximus Liu

Bucknell University, Lewisburg, PA
Skyler Le
Ahn Tran

California Institute of Technology, Pasadena, CA
Eduardo Henrique Rodrigues do Nascimento

Carnegie Mellon University, Pittsburgh, PA
Siuyan Chen
Soren Dupont
Joseph Kalarickal
Advait Nene
Daniel Park
Sam Rosenstrauch
Ishin Shah
Gene Yang
James Yang

Colby College, Waterville, ME
Thor Gabrielsen

Columbia University, New York City, NY
Nikhil Mudumbi

Cornell University, Ithaca, NY
Rishi Gujjar

Duke University, Durham, NC
Erick Jiang
James Rydell

Harvard University, Cambridge, MA
Tanav Choudhary
Kevin Du
Srihari Ganesh
William Hu
Jacob Paltrowitz
Daniel Sheremeta
Haozhe Yang
Harvey Mudd College, Claremont, CA
Tiger Che
Alan Kappler

Haverford College, Haverford, PA
William Bender

Hillsdale College, Hillsdale, MI
Andrew Schmidt

Johns Hopkins University, Baltimore, MD
Minjae Kim

Massachusetts Institute of Technology, Cambridge, MA
Aleksandr Abelyan    Benson Zhan Li Lin    Holden Watson
Joseph Camacho      Mohamed Wacyl Meddour    Christopher Wu
Richard Chen        Nilay Mishra           Tony Wu
Akash Das           Unubold Munkhbat      Max Xu
Benjamin Epstein    Tiago Oliveira Marques    Binwei Yan
Chirag Falor        Pravalika Patalapattu    Victor Yin
Arnav Goel          Edward Qiao             Ziqian Zhong
Nitin Kumar         Espen Slettnes          Jeremy Zhou
David Lee           Teimurazi Toloraia       Adam Zweiger
Daniel Li           Karthik Vedula

Oberlin College, Oberlin, OH
Deron Lessure

Princeton University, Princeton, NJ
Benjamin Lemkin
Austen Mazenko
Ben Zenker

Rose-Hulman Institute of Technology, Terre Haute, IN
Connor Lane

Rutgers, The State University of New Jersey, New Brunswick, NJ
Eric Yang

Stanford University, Stanford, CA
Michael Cho
Kevin Li

Matthew Riedman
Karthik Seetharaman
Ethan Zhang
University of Alabama, Tuscaloosa, AL
Jacob Glidewell

University of California, Berkeley, CA
Theodore Lysek
Noah Mart
Jianzhi Wang

University of California, Los Angeles, CA
Jason Liu
Sumith Nalabolu
Diana Tolu

University of California, Santa Barbara, CA
Pico Gilman

University of Chicago, Chicago, IL
Henry Cafaro

University of Florida, Gainesville, FL
Jake Frazer
Samuel Kim

University of Illinois, Urbana-Champaign, IL
Adrian Calinescu

University of Massachusetts, Amherst, MA
Aditya Khurmi
Son Pham

University of Minnesota, Minneapolis, MN
Nathan Mihm

University of Pennsylvania, Philadelphia, PA
David Kogan
Lucas Wu
Vincent Zhang

University of Rochester, Rochester, NY
Tran Duy Anh Le

University of Toronto, Toronto, ON, Canada
Ethan Bottomley-Mason
Rizky Rajendra Ananta Dewa
Zhiyuan Li
University of Virginia, Charlottesville, VA
Utkarsh Goyal
Declan Stacy

University of Waterloo, Waterloo, ON, Canada
Andrew Dong

University of Wisconsin, Madison, WI
Jonah Guse

Yale University, New Haven, CT
Deyuan Li
Vismay Sharan
Chun Yeung Wong
Michael Ying
STUDENTS RANKED 201-500
Listed by university in alphabetical order

Amherst College, Amherst, MA
Alexandre van Lidth
Derek Zhang
Wenshi Zhao

Arizona State University, Tempe, AZ
Riley Knutson

Augustana University, Sioux Falls, SD
Tianyi Lu

Baruch College, New York, NY
Danyil Blyschak

Brandeis University, Waltham, MA
Benjamin Kamen
Maximilien Shepard

Brigham Young University, Provo, UT
Ethan Katz

Brigham Young University, Laie, HI
Erdenebileg Erdenebat

Brown University, Providence, RI
Ethan Bove
An Cao
Nathan Smith

California Institute of Technology, Pasadena, CA
Toyesh Jayaswal
Joey Litvin
Justin Luo
Yakov Shalunov
Carnegie Mellon University, Pittsburgh, PA
- Alan Abraham
- Kevin Cao
- Yijun Chen
- Matthew Cohen
- Rohit Dasanoor
- Hari Desikan
- Russell Emerine
- Justin Hsieh
- Junwei Huang
- Bowen Jiang
- Sebastian Kumar
- Owen Lalis
- Yuelin Li
- Xavier Lien
- Stanley Liu
- Daniel Mai
- Faraz Mirza
- Ina'nis Ninomae
- Eric Oh
- Giacomo Rizzo
- Parth Shastri
- Lohith Tummala
- Mario Tutuncu-Macias
- Daniel Wang
- Eric Wang
- Xinyi Wang
- Claire Xu
- Chi Hung Anthony Yip
- Justin Yoo
- Kevin You
- Eric Zheng
- Andy Zhu

Columbia University, New York City, NY
- Hyoungjoon Yoo

Cornell University, Ithaca, NY
- Aruni Chenxi
- Lyndon Hess
- Andrii Nykyforchyn
- Abhijeet Saha
- Lucas Sandleris
- Ruogu Zhang

Davidson College, Davidson, NC
- Kenan Wood

Duke University, Durham, NC
- Harry Chen
- Angikar Ghosal
- Hung Le
- Vincent Li
- Nathan Nguyen
- Samuel Orellana Mateo
- Akshar Yeccherla

Georgia Institute of Technology, Atlanta, GA
- Joseph Campbell
- Christian Engman
- Lance Lampert
- Andrew Shi
- Lawrence Zhou

Harvard University, Cambridge, MA
- Sebastian Attlan
- Elliot Chin
- Dhruv Goel
- Radu Andrei Lecoiu
- Jerry Liang
- Kevin Liu
- Annabel Ma
- Easton Singer
- Walden Yan
- Sophie Zhu
Harvey Mudd College, Claremont, CA
Megan Davi, Kai Mawhinney, Daniel Vargas, Luke Wang

Haverford College, Haverford, PA
Guilherme Zeus Dantas e Moura, Hongyi Zhang

Johns Hopkins University, Baltimore, MD
Yash Permalla

Linfield University, McMinnville, OR
Brendan Perez

Massachusetts Institute of Technology, Cambridge, MA
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   Hiep Trinh

Missouri University of Science and Technology, Rolla, MO
   Braden Stillmaker

Moravian University, Bethlehem, PA
   Geoffrey Kleinberg

New York University, New York, NY
   Samuel Esteban
   Siyong Liu

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   Toby Busick-Warner

Northern Illinois University, DeKalb, IL
   Colin Guy

Pennsylvania State University, State College, PA
   Vladyslav Myskiv

Princeton University, Princeton, NJ
   Jerry Han
   Kareem Jaber
   Rodrigo Porto
   Julian Shah
   Daniel Yang
   Charles Yu

Purdue University, Lafayette, IN
   William Lin

Rice University, Houston, TX
   Ayooluwanitemi Aitokhuehi
   Stian Du Preez
   Fangqi Guo

Rose-Hulman Institute of Technology, Terre Haute, IN
   Benjamin Lyons

Rutgers, State University of New Jersey, New Brunswick, NJ
   Justin Kim
   Andrew Krapivin
   Rajat Peddinti

Simon Fraser University, Burnaby, BC, Canada
   Oscar Lautsch
Stanford University, Stanford, CA
Carlo Baronio  Eli Meyers  Peter Westbrook
Michael Doboli  Bradley Moon  Anthony Zhan
John Hlavka  Rahul Thomas

Stony Brook University, Stony Brook, NY
William Lee

Swarthmore College, Swarthmore, PA
Kai Williams

Texas A&M University, College Station, TX
Phuoc Anh Kha Le
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University of Alabama, Huntsville, AL
Zachary Nunez

University of Alabama, Tuscaloosa, AL
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University of Arizona, Tucson, AZ
Vadim Bernshteyn
Balaaji Reddy Nagireddy

University of British Columbia, Vancouver, BC, Canada
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Yash Aggarwal  Andrew Huang  Youngmin Park
Daniel Ao  Aathreya Kadambi  Shreyas Ramamurthy
Aditya Baireddy  Andrew Lee  Robin Sharif
Ralph Cao  Bradley Louie Saito  Brian Sui
Preston Fu  Justin Park  Dylan Xu

University of California, Davis, CA
Sean O

University of California, Los Angeles, CA
Arvin Ding  Akash Madiraju  Surya Subbarao
Stephen Kelman  Ethan Peng  Zachary Tu
Henry Lindhurst  Gary Song  Alan Wu
University of California, San Diego, CA
Mark Barbone
Kenji Gunawan
Elizabeth Teryoshin

University of California, Santa Barbara, CA
Ashwin Anand
Victor Bernal Ramirez
Sagnik Biswas
Ajay Manneth
Anikait Mundhra

University of Chicago, Chicago, IL
Claudio Bastiani-Fonck
Cameron Chang
Cong Hung Le Tran
Ryan O’Farrell
Derek Zhu

University of Florida, Gainesville, FL
Samuel Cohen
Alejandro Leon

University of Hawaii, Manoa, HI
Adam Inamasu

University of Illinois, Urbana-Champaign, IL
Brendan Biernacki
Yuuki Sawanoi

University of Kansas, Lawrence, KS
Liam McKinney

University of Manitoba, Winnipeg, MB, Canada
Nolan Coughlan

University of Maryland, College Park, MD
Omar Habibullah
Clarence Lam
Isaac Mammel
Adam Melrod
Andrew Parker

University of Massachusetts, Amherst, MA
Minh Do

University of Michigan, Ann Arbor, MI
Qimeng Fang
Alvin Li
Jaiden Shin
Bohang Yu
Yuchong Zhang
University of Minnesota, Minneapolis, MN
Andrew Hale
Jeffrey Hu
Andrew Mou
Luke Patefield
Dinh Quan Tran

University of New Mexico, Albuquerque, NM
Franklin Pezzuti Dyer

University of North Carolina, Chapel Hill, NC
Marvin Koonce

University of Oklahoma, Norman, OK
Jacob Norris

University of Pennsylvania, Philadelphia, PA
Benjamin Lee
Robin Murugadoss
Jonathan Pei
Allan Zhang

University of Texas, Dallas, TX
Evan Bailey
Suraj Mathashery

University of Toronto, Toronto, ON, Canada
Robert Chung
Benjamin Edidin
Alptekin Goksan
Mukhammadrizo Madjidov
Luke McCutcheon
Haonan Zhao

University of Virginia, Charlottesville, VA
Michael Fatemi
Nicholas Winschel

University of Washington, Seattle, WA
Matthew Shang
Nelson Sun

University of Waterloo, Waterloo, ON, Canada
Liam Benoît
Arthur Bright
Jason Fang
Valentio Iverson
Adam Jelinsky
Max Jiang
Tianqi Jiang
Max Jung
Hanson Liu
Alexander
Monteith-Pistor
Aaryam Sharma
Senthan Sivatharan
Gary Sun
Christopher Trevisan
Mars Xiang
Tianze Xu
Jacob Yan
Michael Yang
Yingshang Zhao
Kaicheng Zhu
University of Wisconsin, Madison, WI
Haran Mouli

Vanderbilt University, Nashville, TN
Serhii Mytsyk

Virginia Polytechnic Institute and State University, Blacksburg, VA
Grant Mullins

Washington and Lee University, Lexington, VA
Wesley Mazzucco

Wesleyan University, Middletown, CT
Boqing Deng
Ze Fan

Williams College, Williamstown, MA
Jonathan Geller
Yuan Qiu

Yale University, New Haven, CT
Samvel Antonyan
Jacob Berg
Howard Dai
William Dai
Xiang Rong Dai
Lejun Deng
Austin Feng
Seojun Lee
Matthew Li
Patrick Lu
Andrew Milas
William Ning
Andrei Alexandru Parfeni
Zhemin Shao
Kevin Wu
Stephen Yin
TOP TEAMS BY MAA SECTION

Teams listed in order of team score. Where four institutions are listed, there was a tie for third-highest team score in that section.

**Allegheny Mountain Section**
- Carnegie Mellon University
- The Pennsylvania State University
- University of Pittsburgh

**Eastern PA & Delaware Section Section**
- University of Pennsylvania
- Haverford College
- Bucknell University

**Florida Section**
- University of Florida
- Florida International University
- Florida Atlantic University

**Golden Section**
- Stanford University
- University of California, Berkeley
- University of California, Davis

**Illinois Section**
- University of Chicago
- University of Illinois
- Northwestern University

**Indiana Section**
- Purdue University
- Rose–Hulman Institute of Technology
- University of Notre Dame

**Intermountain Section**
- Brigham Young University
- Utah State University
- University of Utah

**Iowa Section**
- Iowa State University
- University of Iowa
- Dordt University
- Grinnell College

**Kansas Section**
- University of Kansas
- Kansas State University
Witchita State University

**Kentucky Section**
University of Louisville
Campbellsville University
University of Kentucky

**Louisiana-Mississippi Section**
Louisiana State University
University of Louisiana, Lafayette
Tulane University
University of Mississippi

**Maryland-DC-Virginia Section**
University of Maryland, College Park
University of Virginia
Johns Hopkins University

**Metro New York Section**
Columbia University
New York University
Stony Brook University SUNY

**Michigan Section**
University of Michigan
Michigan State University
Hillsdale College

**Missouri Section**
Washington University in St. Louis
Missouri University of Science and Technology
Saint Louis University

**Nebraska & Southeast South Dakota Section**
University of Nebraska, Lincoln
University of Nebraska, Omaha
Hastings College

**New Jersey Section**
Princeton University
Rutgers, the State University of New Jersey
Rowan University

**North Central Section**
University of Minnesota, Twin Cities
University of Manitoba
Carleton College

**Northeastern Section**
Massachusetts Institute of Technology
Harvard University
Yale University

**Ohio Section**
Oberlin College
Case Western Reserve University
Ohio State University

**Oklahoma-Arkansas Section**
University of Oklahoma
Oklahoma State University
Oral Roberts University

**Pacific Northwest Section**
University of Washington, Seattle
Simon Fraser University
Oregon State University

**Rocky Mountain Section**
Colorado School of Mines
Colorado State University, Fort Collins
University of Wyoming

**Seaway Section**
University of Toronto
University of Waterloo
McGill University

**Southeastern Section**
Duke University
University of Alabama
Georgia Institute of Technology

**Southern California-Nevada Section**
Harvey Mudd College
University of California, Santa Barbara
University of California, Los Angeles

**Southwestern Section**
Arizona State University, Tempe
University of Arizona
Embry-Riddle Aeronautical University, Prescott

**Texas Section**
University of Texas, Dallas
Rice University
Texas A&M University
Wisconsin Section
University of Wisconsin, Madison
University of Wisconsin, Stevens Point
University of Wisconsin, Milwaukee