William Lowell PUTNAM Mathematical Competition

ANNOUNCEMENT OF WINNERS
of the eighty-second competition held on December 4, 2021

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

Andrew Gu	Massachusetts Institute of Technology
Michael Ren	Massachusetts Institute of Technology
Edward Wan	Massachusetts Institute of Technology
Shengtong Zhang	Massachusetts Institute of Technology
Daniel Zhu	Massachusetts Institute of Technology

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

Ankit Bisain	Massachusetts Institute of Technology
Quanlin Chen	Stanford University
Tianze Jiang	Massachusetts Institute of Technology
Dain Kim	Massachusetts Institute of Technology
Sean J. Li	Massachusetts Institute of Technology
Brian S. Liu	Massachusetts Institute of Technology
Kevin J. Liu	Massachusetts Institute of Technology
Mihir A Singhal	Massachusetts Institute of Technology
Noah Walsh	Massachusetts Institute of Technology
Rui Yao	Massachusetts Institute of Technology

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

Swapnil Garg	Massachusetts Institute of Technology
Thomas Guo	Massachusetts Institute of Technology
Minjae Kwon	Princeton University
Frank Lu	Princeton University
Zhao Yu Ma	Massachusetts Institute of Technology
Holden Mui	Massachusetts Institute of Technology
Kevin Ren	Massachusetts Institute of Technology
Victor Rong	Massachusetts Institute of Technology
Carl Schildkraut	Massachusetts Institute of Technology
Tristan Shin	Massachusetts Institute of Technology
Franklyn Wang	Harvard University
Guanpeng A. Xu	Massachusetts Institute of Technology

HONORABLE MENTION — INDIVIDUALS

Gradin Anderson, Brigham Young University

Adam Ardeishar, Massachusetts Institute of Technology

Adam Bertelli, Carnegie Mellon University

Ciprian Mircea Bonciocat, University of California, Los Angeles

Krit Boonsiriseth, Massachusetts Institute of Technology

Joseph Camacho, Brigham Young University

Sanjana Das, Massachusetts Institute of Technology

Sixiang Gao, Carnegie Mellon University

Weizhen Gao, Carnegie Mellon University

Kyle J. Gatesman, Johns Hopkins University

Gopal K. Goel, Massachusetts Institute of Technology

Howard L. Halim, Carnegie Mellon University

Joseph W. Heerens, Massachusetts Institute of Technology

Daniel X. Hong, Massachusetts Institute of Technology

Edward Hou, Carnegie Mellon University

Ivan Hu, University of Wisconsin

Vincent Huang, Massachusetts Institute of Technology

Aaron Alvarado K. Julistiono, Massachusetts Institute of Technology

Ashton Keith, Binghamton University

Aidan M. Kelley, Washington University

John S. Ko, Massachusetts Institute of Technology

Nitin A. Kumar, Massachusetts Institute of Technology

Thomas J. Lam, Carnegie Mellon University

Phuoc Dinh Le, Southern Methodist University

Tran Duy Anh Le, University of Rochester

Saba Lepsveridze, Massachusetts Institute of Technology

Daniel Li, Massachusetts Institute of Technology

Kevin Li, Stanford University

Unubold Munkhbat, Massachusetts Institute of Technology

Ritam Nag, Massachusetts Institute of Technology

Quan M. Nguyen, Massachusetts Institute of Technology

Vladyslav Oleksenko, Carnegie Mellon University

Misheel Otgonbayar, Massachusetts Institute of Technology

Alan Peng, Massachusetts Institute of Technology

Gregory Pylypovych, Massachusetts Institute of Technology

Timothy Qian, Massachusetts Institute of Technology

Niyanth Rao, Carnegie Mellon University

Brian E. Reinhart, Massachusetts Institute of Technology

Dilhan H. Salgado, Carnegie Mellon University

Gian Cordana Sanjaya, University of Waterloo

Eric Shen, Harvard University

Zeyu Shen, Duke University

Tomasz Slusarczyk, Massachusetts Institute of Technology

Nathan Smith, Washington University

Kenta Suzuki, Massachusetts Institute of Technology

Sheldon K. Tan, Harvard University

Colin S. Tang, Massachusetts Institute of Technology

Vittal Thirumalai, Massachusetts Institute of Technology

Rahul K. Thomas, Stanford University

Sasha Voitovych, University of Toronto

Jianzhi Wang, University of California, Berkeley

William Wang, Massachusetts Institute of Technology

Xunjing Wei, Massachusetts Institute of Technology

Richard H. Wu, University of California, Berkeley

Alex Xu, University of Michigan

Daniel Xu, Massachusetts Institute of Technology

Michael Li, University of Toronto
Samuel J. Li, University of Toronto
Zhening Li, Massachusetts Institute of Technology
Wentinn N. Liao, University of California, Berkeley
Andrew Y. Lin, Massachusetts Institute of Technology
James H. Lin, Massachusetts Institute of Technology
Jason Liu, Massachusetts Institute of Technology
Steven Liu, Massachusetts Institute of Technology
Yijia Liu, Duke University
Jeffrey Lu, Massachusetts Institute of Technology
Edis Memis, Harvard University

Binwei Yan, Massachusetts Institute of Technology
Andrew Yao, Massachusetts Institute of Technology
Zi Song Yeoh, Massachusetts Institute of Technology
Justin Y. Yu, Massachusetts Institute of Technology
Runze Yu, University of California, Los Angeles
Fedir Yudin, Massachusetts Institute of Technology
Ethan A. Zahid, Massachusetts Institute of Technology
Brad W. Zhang, Carnegie Mellon University
Daniel J. Zhang, University of California, Santa Barbara
Jacob B. Zhang, University of California, Los Angeles
Honglin Zhu, Massachusetts Institute of Technology

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

Dain Kim   Massachusetts Institute of Technology

WINNING TEAMS

Rank	School	Team Members (in alphabetical order)
1	Massachusetts Institute of Technology	Edward Wan, Shengtong Zhang, and Daniel G. Zhu
2	Princeton University	Minjae Kwon, Frank Lu, and Aleksa Milojevic
3	Harvard University	Eric Shen, Sheldon K. Tan, and Franklyn Wang
4	Stanford University	Quanlin Chen, Kevin Li, and Rahul K. Thomas
5	University of California, Los Angeles	Ciprian Mircea Bonciocat, Runze Yu, and Jacob B. Zhang

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
Listed by university in alphabetical order

School	Team Members (in alphabetical order)
Carnegie Mellon University	Adam Bertelli, Edward Hou, Dilhan H. Dalgado
Duke University	Yijia Liu, Nathan Nguyen, and Zeyu Shen
University of California, Berkeley	Wentinn N. Liao, Jianzhi Wang, and Richard H. Wu
University of Toronto	Michael Li, Samuel J Li, and Sasha Voitovych
University of Waterloo	Alexander Monteith-Pistor, Gian Cordana Sanjaya, and Rui Ming Xiong

THE WILLIAM LOWELL PUTNAM MATHEMATICAL COMPETITION WAS PREPARED BY:

Andrew Bernoff, Harvey Mudd College — Chair of The Problems Committee

Karl Mahlburg, Susquehanna International Group — Member of The Problems Committee

Richard Stong, Center For Computing Research — Member of The Problems Committee

Gabriel Carroll, University of Toronto — Contributor To The Problems Committee

Andrew Granville, University of Montreal — Contributor To The Problems Committee

Daniel Ullman, George Washington University — Director of The Competition

Mark Krusemeyer, Carleton College — Associate Director of The Competition