Maryland on the Rise
U.S. News & World Report: Best Colleges Rankings

- #19 Top Public Universities
- #46 Overall National Universities
- #19 Best Public College for Veterans
- #8 Living-Learning Communities
- #58 Overall Most Innovative
- 69 Top 25 Undergraduate and Graduate Programs
Ten-Year Trend: Public Institutions Overall Ranking

2015: UMD is tied at 62 with Clemson, Georgia, Pitt, and Purdue

2024: UMD is in the top 50 at 46
Notable Recognitions

#1 for Best Colleges for LGBTQ+ Students by the Campus Pride Index

#7 in Maryland on Forbes' list of America's Best Employers By State

#12 among U.S. Public Institutions, according to the Academic Ranking of World Universities

#13 among publics in Forbes' list of America’s Top Colleges

#14 among U.S. public institutions for patents awarded in 2022 along with other USM institutions, according to the National Academy of Inventors and the Intellectual Property Owners Association

#16 among public four-year institutions for Colleges with the Best 6-Year Graduation Rates for Pell Students in the Chronicle's Almanac

4-Star America's Greatest Workplaces, according to Newsweek
UMD Research on the Rise

- UMD had a record-breaking research year in FY2023: $834 million in research awards
- Highest total amount in research awards ever recorded by our College Park campus
- Increase of 23%—more than $157 million—over FY22
- Includes ORA + Non-ORA
UMD Research on the Rise: Part II

- Research expenditures were also up in FY23, marking a 10% increase over FY22
- As our award amount increases, this will provide more funding for future growth in expenditures
Faculty Achievement

Inbal Becker-Reshef
NASA Exceptional Public Achievement Medal

Deneen L. Brown
NABJ Salute to Excellence Award

Alessandra Buonanno
Elected to Italian National Academy of Sciences

You Zhou
2023 Maryland Science Center Outstanding Young Scientist

Jioni Lewis
Fellow of American Psychological Association

J. Carson Smith
Fellow of National Academy of Kinesiology

Partha Lahiri
President-Elect, International Association of Survey Statisticians

Psyche Williams-Forson
2023 James Beard Foundation Media Award
NIST UAS Challenge

- Grand Prize (2X Winner)
- Best-in Class for Additional Preferred Capabilities, Flyability and Ease of Operation
- Co-Recipient of First Responder Choice Award
- >$150,000 in Prize Money
Exploring New Frontiers
Where Are We in AI?

Language and image recognition capabilities of AI systems have improved rapidly.

Test scores of the AI relative to human performance:

- Human performance, as the benchmark, is set to zero.
- AI systems perform better than the humans who did these tests.
- AI systems perform worse.

The capability of each AI system is normalized to an initial performance of -100.

Data source: Kiela et al. (2021) – Dynabench: Rethinking Benchmarking in NLP
OurWorldinData.org – Research and data to make progress against the world’s largest problems.
Global investment in AI jumps to record high

Source: Tortoise Global AI Index/ Crunchbase
Presidential Commission on “AI for Maryland”

“The purpose of the Presidential Commission on AI for Maryland is both bold and practical: How can our entire campus be a nationwide model for leveraging the incredible potential of machine learning and artificial intelligence to make us better, smarter and more impactful.”
Presidential Commission on “AI for Maryland”

Co-Chairs

- Axel Persaud, Assistant Vice President, Enterprise Engineering, DIT
- Jen Golbeck, Professor and Director, iSchool
Presidential Commission on “AI for Maryland”

Areas for Innovation

- Academic (Teaching and Learning)
- Student Recruitment and Enrollment
- Student Life (Residential Experience, Health, Activities)
- Student Success (Advising, Personalized Tutoring, Career Placement)
- Administrative Services (Procurement, Human Resources, Facilities Management)
- Marketing and Communications (Target Campaigns, Content Optimization)
- IT (Service Desk, Call Centers, Predictive Maintenance, etc.)
- University Relations/Advancement (Prospect ID, Alumni Engagement)
- Research
- Ethics and Policies
- And many, many more
QUANTUM COMPUTING
QLab Grand Opening

- $20M Investment
- Partnership with IonQ
- Opens Quantum Computers to Experts from Around the World
- Node in Mid-Atlantic Regional Quantum Internet (MARQI)

UNIVERSITY OF MARYLAND
FEARLESSLY FORWARD
Why an IonQ-UMD Partnership?

Ion Trap  
Exponentially Larger Area for Application Success

Ion Trap
Semiconductors
Superconducting

21 QuBits
IonQ
IonQ Aria
Quantinuum
Model H1.1
IBM
Falcon r4P (Guadalupe)
Rigetti
Aspen-M-1

Rigetti data taken using Braket between February 18th and 20th, 2022
# Breakthroughs in Information Telecommunications

<table>
<thead>
<tr>
<th>Telegraph</th>
<th>Telephone</th>
<th>Internet</th>
<th>Quantum “Ion Trap” Internet</th>
</tr>
</thead>
<tbody>
<tr>
<td>“What hath God wrought?”</td>
<td>“Mr. Watson, come here; I want you.”</td>
<td>“LO-Lo and Behold”</td>
<td>What will be the first Quantum Internet message?</td>
</tr>
<tr>
<td>Samuel Morse</td>
<td>Alexander Graham Bell</td>
<td>Charley Kline</td>
<td>TBD</td>
</tr>
<tr>
<td>1844</td>
<td>1876</td>
<td>1969</td>
<td>2024</td>
</tr>
</tbody>
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Quantum World Congress

- “Quantum for All”
- New UMD Curriculum
- Quantum Internet (MARQI)
- Quantum Technology Center (QTC)
Taking on Grand Challenges
New Do Good Initiatives

- Do Good Campus Fund (Grants of $5K-50K)
- Do Good Campus Strategic Leadership Council
- Do Good Innovator Awards
15 Months, 8 credits, 1 competition

- **XPLORE** (Fall 2023): Interactive campuswide event choosing a topic
- **XPERIMENT** (Spring-Summer 2024): Two-course sequence on entrepreneurship with team formation and pitches
- **XCELERATE** (Fall 2024-Spring 2025): Final Competition
- **XECUTE** (Spring 2025): Winner chosen with $250K-$2M investment
Our Shared Humanity
NextNOW Fest 2023

- **10th** Anniversary
- 8 Days
- **47** Events
- **4,000** Students and Community Members
- Venues included The Clarice, Stamp Student Union, Parren Mitchell Building, Iribe Center, The Hall CP