One Hundred Eighty-Sixth Commencement
Saturday, May 18, 2024
Welcome, friends.

COMMENCEMENT EXERCISES

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ORDER OF EXERCISES

Prelude Selections

Three Pieces, Ludwig Maurer
Renaissance Dances, Tylman Susato
Scherzo, John Cheetham
Grand Valley Fanfare, Eric Ewazen
Fanfare to “La Péri,” Paul Dukas
Galliard Battaglia, Samuel Scheidt
Die Bankelsangerlieder, Anonymous

Processional

Crown Imperial, William Walton

All who are able are requested to stand during the processional.

The Marshals
The Candidates for Degrees
Members of the Board of Managers
Members of the Haverford College Senior Staff and Bryn Mawr College Cabinet
Members of the Faculty
The Platform Party

The Faculty Marshal
The Hooding Marshal
The Dean of the College
The Opening Speaker
The Alumni Speaker
The Honorary Degree Presenters

The Candidates for Honorary Degrees
The Secretary of the Board of Managers
The Provost
The President of Bryn Mawr College
The President of the College

Welcome From the President
Wendy E. Raymond, Professor of Biology

Opening Remarks
Ashok K. Gangadean, The Emily Judson Baugh Gest and John Marshall Gest Professor of Global Philosophy, Professor of Global Philosophy, and Director of Gest Center

Remarks From the Class of 2024
Maria Teresa Reyes Pacheco
Jorge Arnaldo Paz Reyes

Remarks From the Alumni Association
Beverly Ortega Babers ’84, Esq., President of the Alumni Association

Greetings From Bryn Mawr College
Kimberly Wright Cassidy, President and Professor of Psychology
Remarks From the President
Wendy E. Raymond

Conferring of Honorary Doctorate of Science Degrees
Jon Kabat-Zinn ’64, Ph.D., Alumnus and Mindfulness Pioneer
Presented by Shu-wen Wang, Associate Professor and Chair of Psychology
Ala Stanford, M.D., Physician and Founder of the Black Doctors COVID-19 Consortium
Presented by Qrescent Mali Mason, Assistant Professor of Philosophy

Conferring of Degrees
Class presented by Linda Strong-Leek, Provost, Professor of African and Africana Studies, and Professor of Gender and Sexuality Studies
Candidates presented by John McKnight, Dean of the College

Closing Remarks From the President
Wendy E. Raymond

Recessional
Canzona per Sonare No. 2, Giovanni Gabrieli

Marshals
Lynne Butler, Faculty Marshal and Professor of Mathematics and Statistics
John Dougherty, Associate Professor of Computer Science
Kenneth Koltun-Fromm, The Robert and Constance MacCrate Professor of Social Responsibility and Professor of Religion
Casey Londergan, Professor and Chair of Chemistry
Maud McInerney, The Laurie Ann Levin Professor of Comparative Literature, Professor of English, and Chair of Comparative Literature
Bret Mulligan, Professor of Classics
Alexander Norquist, Hooding Marshal and Professor of Chemistry
Zachary Oberfield, Professor and Chair of Political Science
Bruce Partridge, Emeritus Professor of Astronomy
Jeffrey Tecosky-Feldman, Senior Lecturer of Mathematics and Statistics

Musicians
Jonathan Clark, horn; Jonathan Fowler, tuba; Paul Futer, trumpet; William Gregory, trumpet; Justin Moore, trombone
Each year at Commencement, Haverford awards honorary degrees to individuals who have distinguished themselves in letters, the sciences, or the arts, and/or who have devoted their lives to service and the betterment of humanity. This year, the College recognizes alumnus and mindfulness pioneer Jon Kabat-Zinn and physician Ala Stanford, founder of the Black Doctors COVID-19 Consortium, with honorary doctorate of science degrees.

**Jon Kabat-Zinn ’64**

A practitioner of Buddhist meditation and yoga since 1965, when he was a doctoral student in molecular biology at the Massachusetts Institute of Technology, Jon Kabat-Zinn, Ph.D., achieved international recognition following the publication of his book *Full Catastrophe Living: Using the Wisdom of Your Body and Mind to Face Stress, Pain, and Illness* (1990). His 1993 appearance on the PBS series *Healing and the Mind*, with Bill Moyers, introduced Mindfulness-Based Stress Reduction (MBSR) to a mainstream audience. Kabat-Zinn is the author of a series of scientific papers on mindfulness as well as of 15 books—including, in 2023, *Mindfulness Meditation for Pain Relief*—published in more than 45 languages.

Kabat-Zinn undertook his pioneering work as a professor of medicine at the University of Massachusetts Medical School, where he is still professor emeritus. There he founded the world-renowned MBSR Clinic in 1979 and the Center for Mindfulness in Medicine, Health Care, and Society (CFM) in 1995, both now part of UMass Memorial Health. From its inception, Kabat-Zinn envisioned MBSR not as a therapy but as a public health project, with the aim to move the bell-curve of society, over time, in the direction of greater health and well-being on every level. His work and that of a global community of colleagues have contributed to a growing movement of mindfulness into mainstream institutions in medicine, higher education, business, social justice, the law, technology, and government. More than 700 hospitals and medical centers around the world now offer MBSR.
Ala Stanford
A national health equity leader and healthcare policy advisor, Dr. Ala Stanford advocates for vulnerable populations worldwide. Stanford garnered international recognition during the COVID-19 pandemic when she leveraged her pediatric surgery practice in Philadelphia to form the Black Doctors COVID-19 Consortium, a grassroots organization focused on education, testing, contact tracing, and vaccination in communities without access to lifesaving care and resources. The consortium served more than 100,000 of the city’s most vulnerable residents, who were disproportionately impacted by the pandemic.

In 2022, Stanford was appointed by President Joe Biden as the regional director of the U.S. Department of Health and Human Services for the Mid-Atlantic region, a role in which she oversaw federal health programs and initiatives in Delaware, Maryland, Pennsylvania, Virginia, West Virginia, and Washington, D.C.
In her continued effort to shift the paradigm of medical services and eliminate health disparities, in 2021 she founded a Center for Health Equity in North Philadelphia, in a community whose residents have among the shortest life expectancy in the city. The center’s team of expert, culturally competent, and diverse clinicians has expanded the continuum of care and improved health outcomes.

Stanford’s numerous accolades include recognition as one of Forbes’ most influential women (2021 and 2022), a George H. W. Bush Points of Light Award recipient, and a CNN Hero, as well as the commissioning of a Philadelphia street in her name. In August, Simon & Schuster will publish Take Care of Them Like My Own: Faith, Fortitude, and a Surgeon’s Fight for Health Justice, a memoir in which she explores how her experiences on both sides of the scalpel have informed her understanding of the nation’s racial health gap.
African and Africana Studies
Presented by the Program of African and Africana Studies

The Valentin Y. Mudimbe Award for Excellence in Africana Studies
The award is given in honor of V. Y. Mudimbe, world-renowned scholar and former Haverford professor, and recognizes excellence in scholarship in Africana studies.

Taylor Aiyanna Johnson

Anthropology
Presented by the Department of Anthropology

The Wyatt MacGaffey Thesis Award in Anthropology
This award honors the professor emeritus of Haverford's anthropology department and recognizes an outstanding senior thesis in anthropology.

Rafael Montero Caro

Arts
Presented by the Arts Program

The Kaye Prizes in Theater Arts
Established by Laurence Kaye 1983 and his parents, William Kaye 1954 and the late Cynthia Kaye. The prizes are awarded to the two students, regardless of class year, who have done the most to make theater arts an important part of the Bi-College community.

Acting: Regan Riehl (Bryn Mawr College)
Direction/Production: Ophelia Evans

Athletics
Presented by the Department of Athletics

The A. W. “Pop” Haddleton Award
Named in honor of the longtime track coach at Haverford, this award recognizes an outstanding contribution to an athletic team by a student who epitomizes perseverance, dedication, and loyalty, and who has not received the recognition that, for example, regular starting players do.

Jillian Grace DiTommaso

The Gregory Kannerstein 1963 Award
Awarded to the individual whose combination of outstanding athletic achievement and leadership has been a significant factor in a team's competitive success, and whose levels of performance have brought distinction not only to the individual and team but also to the entire athletic program.

Abigail Jane Russano

The Stephen G. Cary 1937 Award
Given in honor of Haverford alumnus Stephen G. Cary 1937. This award recognizes overall impact on the Haverford athletic program.

Anna Marie Bradley and William Thomas Graves

The Tom Donnelly Award
This award is named in honor of Haverford's longtime Men's Cross Country and Track & Field Head Coach. Presented to the senior varsity student-athlete who has shown continual improvement throughout their collegiate career and who exhibits the qualities most associated with Tom: Strong character, integrity, dedication, and the ability to have a positive impact on their sport and team.

Ravi Surya Eaton and Emily Oh
The Varsity Cup
Haverford's highest athletic award, presented annually to the outstanding athlete in the senior class. The criteria to select the Varsity Cup winners are athletic accomplishment, sportsmanship, and leadership throughout the student's career.

Allyson Rachel Landau

The William W. Ambler 1945 Award
Awarded to the graduating senior varsity athlete on the list of nominees who has the highest cumulative grade-point average through seven semesters of college work.

Isabel Thornberry

Biology
Presented by the Department of Biology

The Ariel G. Loewy Prize for Senior Research in Biology
Established in 2001 in memory of Ariel G. Loewy, professor of biology from 1953 to 2000. This prize is given to graduating seniors in biology whose efforts and accomplishments incorporate the rigor and diligence of experimental science.

Silina Awad and Ahlam Mohamed Houssein

The Irving Finger Prize in Biology
Established in 2003 by family, friends, and alumni in memory of Irving Finger, professor of biology from 1957 to 1994. It is awarded to graduating seniors in biology for outstanding growth and accomplishment in the major.

Alexander Peter Abramenko, Briana E. Boachie, and Matthew James Curran

The Marian E. Koshland Prize in Biology
Established in 1997 by biology faculty, College administrators, and Board members. The prize is awarded to graduating seniors who demonstrated outstanding performance in senior research.

Annabel Junko Flint, Marlena Langdon, Rebecca Ann Osbaldeston, and Baldwin Zhao

Center for Peace and Global Citizenship
Presented by the Center for Peace and Global Citizenship

Center for Peace and Global Citizenship Publicly Engaged Scholar Award
Established in 2019, this award recognizes knowledge production and dissemination that advances peace, social justice, and global citizenship.

Tasneem Mabrouk

Chemistry
Presented by the Department of Chemistry

The American Chemical Society Prize for Scholastic Achievement
Given to the top-ranking senior major in chemistry.

Isabel Thornberry

The American Institute of Chemists Award
Given to an outstanding senior in chemistry in recognition of their demonstrated record of ability, leadership, and professional promise.

Giavanna Rose Flamini

The Colin F. MacKay Prize
Endowed in honor of Professor MacKay by Garth R. Parker Jr. 1981 and the Rohm and Haas Company. This prize recognizes the member of the senior class majoring in chemistry who has shown the greatest intellectual growth over four years of work in the chemistry department.

Charles Mitchell Ferguson
The George Peirce 1903 Prize in Chemistry
Named in honor of George Peirce 1903 by his parents, Harold and Charlotte C. Peirce.
Kelsey Nicole Mabry

The Lyman Beecher Hall Prize in Chemistry
Awarded to graduating seniors for outstanding accomplishment in the major coursework and in research.
XingZhi Chen and Kevin Kaiwen Li

Classics
Presented by the Department of Classics

The Class of 1896 Prize in Latin for Sophomores
Awarded to the sophomore who has done the best work in the department.
Avery Barnett 2026

The Class of 1902 Prize in Latin for First-Years
Awarded to the first-year who has done the best work in the department.
Payton Wagner 2027

The Howard Comfort Prize in Latin
Maya Elena Langer

The Mark L. Hepps 1979 Prize
Awarded in memory of Mark Larry Hepps 1979. This prize recognizes diligence in the study of elementary Latin.
Jonathan Kevorkian 2027

The William W. Baker Prize in Greek
Tianai Wang

College Fellowships
Presented by the Faculty

The Augustus Taber Murray 1885 Research Fellowship
Named in honor of Augustus Taber Murray, a distinguished member of the Class of 1885. This fellowship is awarded to a student pursuing further study in English literature, the classics, or German literature.
Charlotte Scott 2021

The Clementine Cope Awards
Given in honor of Thomas P. Cope, a former member of the Board of Managers. These awards are to be used for graduate study at another institution.
Fellowship: Carolena Alexander Muno 2023
Prize: Ahlam Mohamed Houssein

Communications
Presented by the Office of Communications

The James Bready 1939 Prize for Journalistic Writing
Established in 2004 by Richard Bready 1967 to honor his father and longtime newspaper writer, James Bready. The prize is awarded annually to a Haverford student who has written the year's best journalistic article.
Rhianna Searle 2027 for “Dining Center Suffers Staffing Shortages Post-Pandemic”
Computer Science
Presented by the Department of Computer Science

Research in Computer Science Award
Awarded to a graduating senior in recognition of outstanding contributions to high-quality computer science research during their time at Haverford.

Charlie Crawford

East Asian Languages and Cultures
Presented by the Bi-College Department of East Asian Languages and Cultures

The Hu Shih Prize (胡適)
Established in 2020 and named for the 20th-century Chinese philosopher and educator Hu Shih (1891–1962). This prize is given annually to students who have distinguished themselves in the study of the Chinese language.

Kaj Jensen and Annika Soranno Shiming Torng

The Margaret Mayeda Peterson Prize in Asian Studies
Awarded to a senior major, recognizing student engagement and passion in East Asian language and culture.

Jenny Xu (Bryn Mawr College)

Economics
Presented by the Department of Economics

The Holland Hunter 1943 Economics Department Thesis Prize
Awarded to seniors whose theses display the most outstanding empirical and/or theoretical applications of economics.

Nathan Stein and Benjamin Graham

The Michael M. Weinstein Prize in Economics
Established in 1986.

Annais Gangolf 2025, Devansh Goyal 2025, and Samuel Ross 2025

English
Presented by the Department of English

The Ian Walker Prize
Established by family, friends, and classmates of Ian Walker 1950. This prize is awarded to a Haverford junior or senior majoring in English.

Isabella Hanul Shin Yin

The Newton Prize in English Literature
Awarded on the basis of final honors in English.

Matthew Finbar Denton

The Terry M. Kreiger 1969 Memorial Prize
Awarded to the senior demonstrating the greatest achievement in writing during the junior and senior years.

Shana Anam Cohen-Mungan

The William Ellis Scull 1883 Prize
Awarded to the junior or senior who has shown the greatest achievement in voice and expression of the English language.

Jared Bishop
Environmental Studies
Presented by the Department of Environmental Studies

Environmental Engagement Award
Awarded to the graduating senior who demonstrates outstanding dimensions of environmental engagement and interdisciplinarity, with particular emphasis on crossing or combining modes of inquiry; demonstrates boldness, braveness, and community engagement; and exemplifies love and commitment to working with people as well as with land, animals, plants, and other non-human life beyond campus boundaries.

Sophia Kathryn Wagner

History
Presented by the Department of History

The History Department Senior Thesis Prize
Awarded in recognition of the senior projects that best exemplify the passion, commitment, and professionalism of the historical enterprise.

William Stuart Harris and Michael O’Connell

The Samuel Parry Lippincott 1886 Prize in History
Jian Wei and Callia Erin Weisiger-Vallas

The Senior History Prize
Awarded in recognition of achievement in the study of history.

Lillian R. K. M. Austin and Theo Samuel Schefer

Latin American, Iberian, and Latinx Studies
Presented by the Department of Latin American, Iberian, and Latinx Studies

The Gridley McKim-Smith Senior Research Prize
Awarded by the Haverford, Bryn Mawr, and Swarthmore programs in Latin American, Iberian, and Latinx Studies. This prize recognizes the achievements of the student whose scholarship demonstrates the intellectual rigor and interdisciplinary breadth notable throughout Gridley McKim-Smith’s illustrious career in the Bryn Mawr Art History Department.

Alex Peter Millones

Linguistics
Presented by the Tri-Co Department of Linguistics

The Tri-Co Linguistics Department Outstanding Thesis Award
Awarded to the seniors who wrote the best theses in linguistics.

Maya Antonio and Guilherme Zeus Dantas e Moura

Marian E. Koshland Integrated Natural Sciences Center
Presented by the Departments of Biology and Chemistry

The Arnold and Mabel Beckman Foundation Award
Recognizes outstanding undergraduate students in chemistry and biological sciences.

Helen Emily Moniz
Mathematics
Presented by the Department of Mathematics and Statistics

**The Albert Harris Wilson Award**
Established in 1969 by members of the Class of 1919 at their 50th reunion. This prize recognizes first-year students in mathematics who have proven—by their character, scholarship, and need—to be those whom Dr. Wilson would have most enjoyed helping, were he still with us and teaching mathematics at Haverford College.
**Dasha Dorash 2027, Shak Mamadalieva 2027, Chantelle Mawoneke 2027, and Grace Nasrallah 2027**

**Class of 1896 Prize in Mathematics**
Awarded to the sophomores who have done the best work in the department.
**Will Bender 2027, Nina Chafee 2027, and David Dai 2027**

**The Department Prize in Mathematics for First-Year Students**
Awarded to the first-year students who received the highest scores on the annual math prize exam.
**Nhat-Han Bui 2027 and Rupert Lim 2027**

**The Mathematics and Statistics Senior Thesis Prize**
Awarded in recognition of the senior projects that best exemplify commitment, independence, and clarity of mathematical or statistical exposition.
**Tomás Ascoli, Atira Glenn-Keough, and Emily Oh**

Music
Presented by the director of the Chamber Music Program

**The Sylvia Glickman Chamber Music Prize**
This award honors a senior enrolled in the Bi-College Chamber Music Program throughout their time at Haverford who has displayed leadership, commitment, innovation, and improvement during their tenure in the program.
**David Jeremy Betz**

Peace, Justice, and Human Rights
Presented by the Program of Peace, Justice, and Human Rights

**The PJHR Award for Engaged Scholarship**
Awarded to the graduating senior whose justice-oriented work in the concentration has been academically rigorous while also attuned to the importance of communicating ideas to people with different views and forms of training. The recipient of this award has mastered both disciplinary and interdisciplinary forms of excellence.
**Tasneem Mabrouk**

**The PJHR Award for Ethical Action**
Awarded to the graduating senior who has lived the values of peace, justice, and human rights both in the classroom and in the world beyond campus in an exemplary fashion. The recipient of this award has put their principles into action and made a positive impact in the larger world by engaging directly with communities impacted by injustice or inequality.
**Sunny Martinez**

**The Elizabeth P. Smith Prize**
Established in 1915 by bequest from Elizabeth P. Smith. This prize honors the best essay on peace.
**Gabriel Jose Morillo**

**The Elliston P. Morris 1848 Prize**
Founded in 1906 by a gift of $1,000 from Elliston P. Morris 1848. This prize honors the outstanding essays on the subject of arbitration and peace.
**Kaia Chau (Bryn Mawr College) and Brianna Feifer 2026**
Philosophy
Presented by the Department of Philosophy

The Charles Schwartz 1979 Memorial Prize in Philosophy
Awarded in recognition of Chuck Schwartz 1979. This prize is awarded to the student whose senior essay best exemplifies the care, precision, and creativity demonstrated by the senior project of Chuck Schwartz.

Samuel Sunghwan Choi

The Departmental Prize in Philosophy
Recognizes students who have made the most significant contributions to the vitality of the philosophical community, both within the classroom and beyond, while majoring in philosophy.
Bela Khanna and Allison Flory Landweber

Physics and Astronomy
Presented by the Departments of Physics and Astronomy

The Faculty-Student Collaborative Research Prize
Funded by the Boughn-Gollub-Partridge Fund for Faculty-Student Research in Astronomy and Physics. This prize awards funds in support of research conference attendance to present research based on the senior thesis, or for research with Physics and Astronomy department faculty.
Adi Advani and Ethan Michael Baker

The Louis B. Green Prizes in Physics and Astronomy
Awarded in honor of Louis B. Green (1911–99), a professor of astronomy and College administrator who inspired generations of students, these prizes are given to the graduating students who have gone above and beyond in their contributions to research and/or department culture and events. Established by Charles Ufford, a Haverford College parent.
Anagha Aneesh, Sarah Cohen Campbell, Lydia Rose Guertin, and Petra Tenna Mengistu

Political Science
Presented by the Department of Political Science

The Emerson L. Darnell 1940 Prize
Presented in honor of Emerson Darnell, a Quaker alumnus who dedicated his life’s work to advocating peaceful social change and defending the civil rights of the individual. The prize is awarded annually to the students who present outstanding papers demonstrating an appreciation of the Bill of Rights as the foundation of American law and the very fabric of American society.
Lucca Marcello Guzmán-Gieseken and Kelcey Hutchinson (Bryn Mawr College)

The Harold P. Kurzman 1958 Prize
Awarded to the senior who has performed the best and most creatively in political science coursework.
John A. Donovan IV

The Harvey Glickman Prize
Established by the Political Science department in 2019 in honor of Harvey Glickman, a professor of political science at Haverford for 43 years and an esteemed political theorist. Awarded to the graduating senior in political science whose senior thesis displays the greatest innovation in pushing the theoretical boundaries of the discipline and its subfields.
Laura Mercedes

The Herman M. Somers Prize in Political Science
Given in recognition of the research and teaching of Red Somers. Awarded to the graduating seniors who present outstanding senior projects that reflect the interest in policy, respect for evidence, and the humane concern for improving society that characterized Somers’ work.
Lorelei Kirsten Alverson and John A. Donovan IV
The Stephen H. Miller 1962 Memorial Award
Presented in honor of Stephen H. Miller 1962, who lost his life serving his country and his fellow man in South Vietnam while taking part in village development as a member of the United States Information Agency. This award is presented to the graduating senior in political science who best exemplifies the ideal of political involvement and social service expressed in Miller’s life and career.

Cecilia Tucker Cohen

Psychology
Presented by the Department of Psychology

The Sidney Perloe and David Olton Research Award
Established with a gift from the estate of David S. Olton 1964, chair of the psychology department at Johns Hopkins University. The award honors the seniors who have done exceptional work and show great promise in psychology.

Katy Anne Cheng, Lucas Linden Miller, and Isabel Russak

Registrar
Presented by the Registrar’s Office

The Scholarship Improvement Prize
Awarded to the senior who has shown the most steady and marked improvement in scholarship during their time at Haverford.

Nada Ashraf Salama Aly

Religion
Presented by the Department of Religion

The Religion Prize
Awarded to the senior religion majors who presented the best theses.

Trinity Rae Kleckner and Marissa Merriam

Spanish
Presented by the Department of Spanish

The Manuel J. and Elisa Pi Asensio Prize
Awarded for the best essay submitted by a senior majoring in Spanish or with a concentration in Latin American, Iberian, and Latinx Studies.

Jean Bonauto Wriggins

Students’ Council
Presented by Students’ Council

The Edmund J. Lee 1943 Memorial Award
Recognizes Edmund Jennings Lee, the sole member of the Class of 1943 to be killed during World War II. This award is given to the student organization that has contributed most toward the furtherance of academic pursuits, extracurricular activities, spiritual growth, or college spirit in individuals or in the College as a whole during the year.

Haverford Students for Peace

The John G. Wallace 1957 Class Night Award
Presented to the student who has made the greatest contribution to on-campus performing arts.

Harrison Tyler Lennertz
The Jonathan Mohrig 1986 Memorial Prize
Honors a Haverford sophomore who died in 1984. This prize is awarded to the student at Haverford who embodies Jonathan's enthusiasm, warmth, humor, and quiet generosity to those around him, and who, like Jonathan, makes a special contribution to the quality of life at Haverford.

Jacob Chan

The Martin Foss Award
Given to the member of the Haverford College community whose life speaks directly to the lives of others by the powerful harmony of intellect, compassion, and courage.

Jorge Arnaldo Paz Reyes

The Service Leadership Award
Presented to the graduating senior who will make outstanding contributions to social and/or environmental change through projects or programs of their initiation. The award is designed both to nurture graduating seniors as they begin to dedicate their lives to service action and to develop a network of alumni doing model work in the field.

Emma Miller Schwartz

The Stephen G. Cary 1937 Award
Given in honor of Stephen G. Cary 1937 and his contributions to the Haverford community. This award is presented to the senior who best exemplifies “honesty, integrity, a healthy combination of scholarly and extracurricular activities, and, most of all, a deep concern not only for those who are a part of the Haverford community, but also for those who are a part of our neighboring communities.” An award of $1,000 is given in the winner’s name to the College for the purpose of financial aid.

Gabriel Franklin

The Students’ Council Student Life Award
Presented to the senior who, through hard work, persistence, and concern for their peers, has made the greatest contribution to student life on campus.

Maria Teresa Reyes Pacheco

Faculty and Staff Awards
Presented by Students’ Council

The Students’ Association Award
Presented to a Haverford faculty member who gives outstanding service to the Haverford community and who upholds the qualities intrinsic to a Haverford education.

Tarik Aougab

The Students’ Association Appreciation Award
Presented to a departing member of the Haverford faculty or staff who has given outstanding service to the Haverford community and upholds the qualities intrinsic to a Haverford education.

Walter Hjelt Sullivan
As of 2021, the Chesick Scholars and Horizons programs have combined to include all first-generation and/or low-income students on Haverford’s campus. Graduating seniors who have chosen to honor this identity are wearing Chesick Scholar stoles over their commencement robes.
Founded in 1776, Phi Beta Kappa is the oldest undergraduate academic honor society in the United States. The Haverford College Chapter of the Phi Beta Kappa Society of America was chartered in 1898 as Zeta of Pennsylvania. The Haverford chapter is one of 286 nationwide, housed at colleges and universities with academic programs in liberal arts and sciences acknowledged as sufficiently rigorous and intellectually challenging by standards maintained by the national Phi Beta Kappa society.

Individual selection reflects excellence in the liberal arts and sciences and distinction in a broad array of undergraduate courses. At Haverford College, undergraduate members of good character are selected primarily on the basis of academic performance, as expressed in their course grades. The selection committee of alumni and faculty members of Phi Beta Kappa also considers, to the extent possible, the degree of originality, creativity, and imagination of thought; the range of depth of intellectual interests; and the precision and elegance of a student’s work. Normally no less than 10 percent and no more than 15 percent of a graduating class are selected.

The Phi Beta Kappa Society supports programs that significantly advance scholarship and academic excellence by awards, lectures, and outreach activities to schools. Membership now numbers more than 500,000 individuals.

The following members of the Classes of 2024 and 2025 have been elected to the Phi Beta Kappa Society.

Members of the Class of 2024 elected during the junior year:

- Maya Isabelle Antonio
- Isabel Rose Ashford Arya
- XingZhi Chen
- Katy Anne Cheng

Members of the Class of 2024 elected during the senior year:

- Benjamin Hodder Alexander
- Emily Hélène Almgren
- Ethan Michael Baker
- Elena Madeline Bien
- Theodore England Carlin
- Cecilia Tucker Cohen
- John A. Donovan IV
- Syeda Fatima Faheem
- Natalie Sonia Goeler-Slough
- Katherine Yujung Hong
- Jean Rose Katz
- Sadie Chaehi Kim
- Kevin Kaiwen Li
- Nicole Jiahan Li
- Tasneem Mabrouk
- Katelyn Mann
- Sarah Michelle McNamara
- Petra Tenna Mengistu
- Ruth Pilar Mercedes
- Lucas Linden Miller
- Michael O’Connell
- Maya Plimack
- Thea Risher
- Isabel Russak
- Nathan Stein
- Rebecca Priscilla Stern
- James Vincent Surgenor
- Isabel Thornberry
- Alec Wallach
- Tianai Wang
- Margaret Weisblum
- Callia Erin Weisiger-Vallas
- Jean Bonauto Wriggins

Members of the Class of 2025 elected this year:

- Shoshanah Hornum
- Carmen Miller
- Noah Tunis
COLLEGE HONORS

Awarded by the Faculty of the College

Summa Cum Laude
Isabel Rose Ashford Arya
Ethan Michael Baker
Elena Madeline Bien
XingZhi Chen
Tasneem Mabrouk
Petra Tenna Mengistu
Ruth Pilar Mercedes
Michael O’Connell
Isabel Russak
Isabel Thornberry
Margaret Weisblum
Callia Erin Weisiger-Vallas

Magna Cum Laude
Benjamin Hodder Alexander
Emily Hélène Almgren
Lorelei Kirsten Alverson
Maya Antonio
Silina Awad
Brandon Mikai Banadda
Aidan Bannon
Ruby Sophie Bouhassira
Theodore England Carlin
Katy Anne Cheng
Cecilia Tucker Cohen
Matthew James Curran
John A. Donovan IV
Syeda Fatima Faheem
Natalie Sonia Goeler-Slough
Meghan Renee Guberman
Keqing He
Katherine Yujung Hong
Ahlam Mohamed Houssein
Aby Isakov
Arushi Ishwar
Maya Greene Johnson-Fraidin
Jean Rose Katz
Sadie Chaehi Kim
Kevin Kaiwen Li
Nicole Jiahan Li
Kelsey Nicole Mabry
Katelyn Mann
Laura Mercedes
Lucas Linden Miller
Alexandra Renee
Miranda Castellón
Avi Sandeep Patel
Maya Plimack
Thea Risher
Nathan Stein
Rebecca Priscilla Stern
James Vincent Surgenor
Alec Wallach
Jean Bonauto Wriggins
Isabella Hanul Shin Yin

Cum Laude
George Christopher
Thomas Allan
Hannah Grace Amendola
Pritha Aryal
Annie Catherine Barrett
Benjamin Baumgarte
Benjamin Alan Bergerson
Anna Marie Bradley
Daniel Carvalho
Zora Catherine Dallmann
Guilherme Zeus
Dantas e Moura
Kirin Berkley Eicher
Mia Ellis-Einhorn
Ophelia Evans
George Delellis Evans
Annabel Junko Flint
Gabrielle Espiritu Fontanilla
Max Friedmann
Benjamin Graham
William Blackburn Haresch
Julia Rose Katowitz
Jessica Korgen
Eli Harry Kravinsky
Emi Krishnamurthy
Samanyu Kurra
Marlena Langdon
Mimi Lavin
Naomi Lawrence
Cecilia V. Morales
Gabriel Jose Morillo
Erin Nicole Ng
Mata Weerin Ngochanthra
Rachel Lauren Pincus Niebler
Julia Emily Noppenberger
Rebecca Ann Osbaldeston
Micah Elijah Painter
Keon Parsa
Levi Yoder Raskin
Emmeline Grace Riendeau
Isabella Victoria Rose
Dylan Lloyd Rothbort
Theo Samuel Schefer
Benjamin Charles Schiltz
Eva Elisabeth Shin
Matthew Spencer
Neha Thumu
Annika Soranno Shiming Torgn
William Theodore
Budach Veach
Sophia Kathryn Wagner
Jian Wei
Jason Connor Wild
Eugene Youji Yang
Aidan James York
Daniel Zabehinsky
High Honors
Awarded by the Departments of the College

Adi Advani  
*Physics*

Benjamin Hodder Alexander  
*Physics*

Emily Hélène Almgren  
*Mathematics*

Lorelei Kirsten Alverson  
*Political Science*

Anagha Aneesh  
*Chemistry and Physics*

Maya Antonio  
*Linguistics*

Pritha Aryal  
*Economics*

Tomás Ascoli  
*Physics*

Isabel Rose Ashford Arya  
*Anthropology*

Ethan Michael Baker  
*Physics*

Aidan Bannon  
*Physics*

Benjamin Alan Bergerson  
*Physics*

Ruby Sophie Bouhassira  
*Mathematics*

Sarah Cohen Campbell  
*Physics*

Theodore England Carlin  
*Chemistry*

Jacob Chan  
*Linguistics*

XingZhi Chen  
*Chemistry*

Katy Anne Cheng  
*Psychology*

Shana Anam Cohen-Mungan  
*English*

Thomas Coleman  
*Chemistry*

Guilherme Zeus Dantas e Moura  
*Mathematics*

Matthew Finbar Denton  
*English*

John A. Donovan IV  
*Political Science*

Kirin Berkley Eicher  
*Economics*

Mia Ellis-Einhorn  
*Computer Science*

Devansh Goyal  
*Economics*

Benjamin Graham  
*Economics and Mathematics*

Lydia Rose Guertin  
*Astronomy and Physics*

Katherine Yujung Hong  
*History*

Aby Isakov  
*An Independent Major in Visual Studies*
Jean Rose Katz  
*Chemistry*

Eli Harry Kravinsky  
*Political Science*

Kevin Kaiwen Li  
*Chemistry*

Kelsey Nicole Mabry  
*Chemistry*

Sarah Michelle McNamara  
*Chemistry*

Petra Tenna Mengistu  
*Astronomy and Physics*

Laura Mercedes  
*Anthropology*

Ruth Pilar Mercedes  
*History and Spanish Language*

Lucas Linden Miller  
*Psychology*

Victor Nault  
*Computer Science*

Rachel Lauren Pincus Niebler  
*Mathematics*

Michael O’Connell  
*History*

Emmeline Grace Riendeau  
*Physics*

Isabel Russak  
*Psychology*

Theo Samuel Schefer  
*History*

Benjamin Charles Schiltz  
*History*

Matthew Spencer  
*Economics*

Nathan Stein  
*Economics*

Rebecca Priscilla Stern  
*History*

James Vincent Surgenor  
*Chemistry*

Isabel Thornberry  
*Chemistry*

Annika Soranno Shiming Torn  
*History*

William Theodore Budach Veatch  
*Mathematics*

Alec Wallach  
*Physics*

Jian Wei  
*History*

Callia Erin Weisiger-Vallas  
*History*

Jean Bonauto Wriggins  
*Political Science and Spanish Language*

Daniel Zabehinsky  
*Economics*
Honors
Awarded by the Departments of the College

Adi Advani  
*Pure Mathematics*

Maya Antonio  
*Education Studies*

Adelma Isleydis Alejandra Argueta-Roman  
*Environmental Studies and Biology at Bryn Mawr College*

Lillian R. K. M. Austin  
*History*

Ethan Michael Baker  
*Mathematics*

Brandon Mikai Banadda  
*Neuroscience*

Annie Catherine Barrett  
*Neuroscience*

Benjamin Baumgarte  
*Physics*

Elena Madeline Bien  
*Neuroscience*

Jared Bishop  
*English*

Anna Marie Bradley  
*Chemistry*

Henry Britton  
*Computer Science*

Petra Budavári  
*Physics*

Sarah Cohen Campbell  
*Mathematics*

Jacob Chan  
*Spanish Language*

XingZhi Chen  
*Environmental Studies*

Berlensie Chery  
*Chemistry*

Cecilia Tucker Cohen  
*Political Science*

Lilah Elizabeth Craig  
*Neuroscience*

Celeste Catherine Cubbage  
*Physics*

Zora Catherine Dallmann  
*Anthropology*

Guilherme Zeus Dantas e Moura  
*Linguistics*

Ravi Surya Eaton  
*Neuroscience*

George Delellis Evans  
*Physics*

Ophelia Evans  
*Environmental Studies*

Nikki Farrell  
*Neuroscience*

Giavanna Rose Flamini  
*Chemistry*

Clare Alice Fleming  
*Chemistry*

Gabrielle Espiritu Fontanilla  
*Psychology*

Jacob Seiji Foster  
*International Studies at Bryn Mawr College*

Sasha Rain Freedman  
*Environmental Studies*

Nora Ruth Gaby-Biegel  
*Neuroscience*

Annais Margot Gangolf  
*Economics*

Angelina O’Hara Geralis  
*Computer Science*

Matthew Gusdorff  
*Computer Science*

Jason Daniel Haas  
*Chemistry*

William Blackburn Haresh  
*Physics*

William Stuart Harris  
*History*

Hannah Lynn Harrison  
*Chemistry*

Daniel Ralph Hoehler  
*Physics*

Arushi Ishwar  
*Psychology*

Maya Greene Johnson-Fraidin  
*History of Art at Bryn Mawr College*

Gabriel Rocco Johnson Sotero  
*Chemistry*

Bela Khanna  
*Philosophy*

Sadie Chaehi Kim  
*Chemistry*
Trinity Rae Kleckner  
*Religion and Computer Science*

Naomi Bleier Komatsu  
*Anthropology*

Jessica Korgen  
*Environmental Studies*

Emi Krishnamurthy  
*Neuroscience*

Samanyu Kurra  
*Economics*

Allyson Rachel Landau  
*Psychology*

Allison Flory Landweber  
*Philosophy*

Mimi Lavin  
*Chemistry*

Ilana Page Lehrman  
*English*

Peter Lehv  
*Applied Mathematics*

Lillian Bess Leibovich  
*Linguistics*

Nicole Jiahan Li  
*Psychology*

Alex Lu  
*Neuroscience*

Katelyn Mann  
*Neuroscience*

Emma Sophia Hartry Martignoni  
*Astrophysics*

Sunny Martinez  
*Education Studies*

Laura Mercedes  
*Political Science*

Alexandra Renee  
Miranda Castellón  
*French*

Erin Nicole Ng  
*Neuroscience*

Michael O’Connell  
*Russian at Bryn Mawr College*

Santiago Ospina Duran  
*Psychology*

Micah Elijah Painter  
*Computer Science*

Andrew Briggs Peebles  
*Neuroscience*

Trisha Phan  
*Chemistry*

Levi Yoder Raskin  
*Biology at Bryn Mawr College*

Jonathan Rigberg  
*Pure Mathematics and Economics at Bryn Mawr College*

Thea Risher  
*Education Studies*

Alex Rodriguez-Gomez  
*Environmental Studies*

Isabella Victoria Rose  
*Economics*

Matthew Henry Ruiz  
*Chemistry and Spanish Language*

Samuel Schindel  
*Economics*

Emma Miller Schwartz  
*Anthropology*

Oleh Noah Shostak  
*Economics at Bryn Mawr College*

Riley Starling  
*Physics*

Neha Thumu  
*Computer Science*

Fadi Totah  
*Neuroscience*

Sophia Kathryn Wagner  
*Environmental Studies and Biology at Bryn Mawr College*

Margaret Weisblum  
*Psychology*

Anneke S. Wernerfelt  
*Computer Science*

Jason Connor Wild  
*Neuroscience*

Eugene Youji Yang  
*Economics*

Tianbo Yang  
*Mathematics*

Xingyun Yang  
*Astrophysics*

Isabella Hanul Shin Yin  
*English*

Aidan James York  
*Geology at Bryn Mawr College*
The College awards a Bachelor of Arts or a Bachelor of Science degree, depending on the major. The title of each student’s senior capstone project—whether a thesis, performance, or fine arts portfolio—appears with their name. Reflecting skills, methods, and concepts that are specific to their major, this culminating work reflects the student’s knowledge, original synthesis, scholarly contribution, and/or creative expression. Certain majors also include comprehensive exams, and for some majors offered through partner institutions, a senior capstone project may not be required.

Alexander Peter Abramenko
Biology: Effects of Early-Life Stress on Simple and Spatial-Associative Recognition Memory: Contribution of Cyclin D1 Signaling with Minors in Neuroscience and Psychology

Adi Advani
Pure Mathematics: Alcuin Numbers: River Crossing Problems
Physics: Acoustics of Failure: Geohazard Forecasting Using the Density of Modes with a Concentration in Scientific Computing

Alvaro Sebastian Aguilar
Education Studies Sociology at Bryn Mawr College

Inteemum Ahsan
Political Science and Sociology: The Jordanian Arab Spring: Opportunities, Frames, and Fragmentation in 2011

Erin Elizabeth Albright
Chemistry: Investigating the Chemical Defense Compounds of Neotropical Vespids with a Minor in Environmental Studies

Benjamin Hodder Alexander
Physics: Synthetic Mucus Mediates Friction via Tribofilm Formation with Minors in Astronomy and Mathematics and a Concentration in Scientific Computing

George Christopher Thomas Allan
Latin

Emily Hélène Almgren
Mathematics: Knot-Theoretic Approaches to Open Curves With Applications to Entangled Proteins with a Minor in Chemistry and a Concentration in Scientific Computing

Lorelei Kirsten Alverson
Political Science: Violent Feminist Splitter Organizations: A Case Study of Red Zora, Valkyria, and the Weather Underground with a Minor in Sociology at Bryn Mawr College

Nada Ashraf Salama Aly
Neuroscience: ELS and Corticosterone: The Effects of Early-Life Stress and Corticosterone Levels on Spatial Memory Learning in Juvenile Rodents with a Minor in Anthropology

Hannah Grace Amendola
Spanish: La educación de la mujer bajo el franquismo with a Minor in Psychology

Anagha Aneesh
Chemistry and Physics: Quantum Density Functional Theory Reveals the Effect of Charge Transfer on the Vibrational Spectra of Terminal Alkynes in Triethylamine

Maya Antonio
Education Studies Linguistics: From Language Ideology to Practice: Teachers’ Navigation of Language Ideologies in a Bilingual Community Education Center

Adelma Isleydis Alegrueta-Roman
Environmental Studies: Forest Restoration: How History and Culture Shape Restoration in the Wissahickon Area Biology at Bryn Mawr College: Exploring the Relationship Between Physiology and Reproductive Output Under Global Change Factors on Wetland Ecosystems

Pritha Aryal
Economics: The Impact of California Paid Family-Leave (CA-PFL) Policy on Mothers’ Shares of Household Incomes with a Minor in Sociology and a Concentration in Mathematical Economics
Tomás Ascoli  
Mathematics: *Mathematical Models of Algae-Daphnia Systems*  
Physics: *Effects of Thermal Annealing on the Photoconductivity of TPPS4 Porphyrin Nanowires*  

Isabel Rose Ashford Arya  
Anthropology: *The Gardens and Protests of Alcatraz Island: Cultivating Historical Memory*  
with a Minor in Spanish  

Lillian R. K. M. Austin  
History with a Minor in East Asian Languages and Cultures  

Silina Awad  
Biology: *Characterizing the Role of the RNA-Binding Protein YBX3 in Post-Transcriptional Regulation of Skeletal Muscle-Cell Proliferation and Differentiation*  
with a Minor in Psychology  

Jennifer Badillo  
Psychology: *Moderators of Music Use in Cognitive Performance*  
with a Minor in French and Francophone Studies  

Ethan Michael Baker  
Mathematics: *Order of Selmer Groups of Congruent Number Curves Over Real Quadratic Fields*  
Physics: *Particle Self-Energies in the BSBM Model of a Varying Fine-Structure Constant*  

Jordany Baltazar  
Economics: *Fouls or Foul Play? Investigating the Influence of Referee Bias in the WNBA*  

Brandon Mikai Banadda  
Neuroscience: *The Examination of Novel Object Recognition in Zebrafish*  

Aidan Bannon  
Physics: *Watch Your Step! Investigating the Effects of Substrate on Robot Locomotion Performance*  

Annie Catherine Barrett  
Neuroscience: *The Role of Mesolimbic Estrogen Receptors in Modulating Peripartum Estradiol Effects on Neuroplasticity*  
with a Minor in Health Studies  

Juno Elentiya Bartsch  
Education Studies and Computer Science at Bryn Mawr College: *Breaking Down Barriers: Supporting Minoritized Learners in Undergraduate Computer-Science Courses*  
with a Minor in Data Science at Bryn Mawr College  

Benjamin Baumgarte  
Physics: *Simulating Defect Formation and Behavior in Cholesteric Liquid Crystal Textures Doped With Light-Driven Molecular Motors*  
with a Minor in Statistics  

Kyle James Beach  
Computer Science: *Depreciating Assets, Projected Value, and Risk Management in Major League Baseball*  
with a Minor in Mathematics at Bryn Mawr College  

Alexandria Catherine Behm  
English: *Heart Compass: Stories*  
with a Minor in Classical Culture and Society and a Concentration in Creative Writing  

Benjamin Alan Bergerson  
Physics: *Classification of Flocculent and Grand Design Spiral Galaxies Using Supervised Machine Learning*  

Ari Bernstein  
Sociology: *The Role of Collective Value Judgment in Mediating the Doll Collector Community*  

David Jeremy Betz  
Environmental Studies with a Minor in Music  

Zachariah Amin Bhuiyan  
Mathematics: *From Stability to Snap-Back Repellers: Chaos in the Logistic Map*  
with a Minor in Economics  

Sociology: *The Role of Collective Value Judgment in Mediating the Doll Collector Community*  

Elena Madeline Bien  
Neuroscience: *Efficacy of Neurorehabilitation Using tDCS Paired With Speech and Language Therapy on Improvements in Baseline Language Performance in Patients With Logopenic Primary Progressive Aphasia*  

Jared Bishop  
English: *“I Darena Lat You In”: The Child Ballads, Academic Canons, and the Folk Tradition*  
with a Minor in Japanese Language
Briana E. Boachie  
Biology: Investigating the Role of Extracellular DNA in M. xanthus Fruiting Body Stability

Zaida Nia Boissiere  
Political Science: Imperial Footprints: Unraveling British Colonial Legacies in the Criminal Justice Systems of Nigeria and the U.S. with a Minor in French and Francophone Studies

Xander Boldt  
Economics: Target Tracking With Game Theory

Artem Borodin  
Economics: Equilibria Strategies in a Model of Constructive Feedback

Ruby Sophie Bouhassira  
Mathematics: Topological Data Analysis With Applications to Birdcall Identification with a Minor in Psychology

Anna Marie Bradley  
Chemistry: Assessing Learning Domains Used by Chemistry Education Games: A Review with a Minor in Health Studies

Andric Brena  
Computer Science: Understanding the Concept of a Notional Machine

Henry Britton  
Computer Science: Interpreting Convolutional Neural Networks for Computational Genetics

Benjamin Apolinary Bronstein  
Economics: Workforce Diversity in the Commercial Banking Industry

Vic Brown  
Education Studies with a Minor in Literatures in English at Bryn Mawr College

Petra Budavári  
Physics: 3D-Printed Feet Modelled After Zebra-Tailed Lizards (C. draconoides) Can Help Explore Locomotion in Granular Media with a Concentration in Biophysics

Sarah Cohen Campbell  
Mathematics and Physics: Available Configuration Space of Super-Ellipse Sector Particles

Theodore England Carlin  
Chemistry: Establishing the Role of Charge Density Matching and Hydrogen-Bonding in Templated Vanadium Selenite Oxalate Formation

Anthony Carrillo  
Chemistry

Daniel Carvalho  
Political Science: Forming Democracy’s Backbone: How Cues Influence American Public Opinion with a Minor in Data Science at Bryn Mawr College

Jacob Chan  
Education Studies  
Linguistics: Monolingual Spain? The Impact of the Co-Official Designation on Catalan and Asturian Language Policy and Education  
Spanish: ¡Usa la llengua! La evolución de las campañas lingüísticas en la Cataluña posfranquista

Aidan Chang-Lee  
Growth and Structure of Cities at Bryn Mawr College: Similar Circumstances, Different Solutions: Seattle and San Francisco’s Opposite Remedies to Elevated Waterfront Freeways with a Minor in Data Science at Bryn Mawr College

Aidan Chapin  
Sociology: “What Is My Nation?”: Modernity, Diaspora, and Nationalism in the United States with a Minor in Philosophy

Ila Charendoff  
Biology: Establishing Predictive Traits Associated With Operational Performance in Bio-Detection Canines and Obtaining Laboratory Performance Data on Dogs Trained to Detect Chronic Wasting Disease

Woodkensia Charles  
Physics: Time Invariance Violation of Neutrino Oscillations with a Minor in Astronomy

XingZhi Chen  
Chemistry: Examining the Presence of Phthalates in Environmental Plastic Debris  
Environmental Studies: Understanding Traditional Chinese Herbal Medicine in the 21st Century: A Case Study of Longdan Xiegan Tang

Katy Anne Cheng  
Psychology: “Shame on You”: Collectivistic Cultural Values Influence the Relationship Between Shame Experiences and Psychosocial Well-Being with a Minor in Neuroscience
Louis M. Cheng
Psychology: Examining the Moderating Effects of the Parent-Child Relationship and Culture Between the Associations of Parental Strictness Behavior and Youth Adjustment Among College Students with Minors in Statistics and Data Science at Bryn Mawr College

Berlensie Chery
Chemistry: Synthesis and Characterization of DIPI-PA, a Bidentate Guanidine-Pyridine Hybrid Ligand with a Concentration in Biochemistry

Samuel Sunghwan Choi
Philosophy: Uncovering Han: Tracing Our Roots, Forging Identities, Crafting Community with a Minor in Religion

Adam Connor Chow
Economics: Melting Pot or Mosaic: The Impact of Social Sentiment on Immigrant-Native Wage Differentials with a Minor in East Asian Languages and Cultures

Willow Clayton
Psychology: Effects of Ventral Tegmental Area Estrogen Receptor Alpha Knockdown Following a Hormone-Simulated Pregnancy on ΔFosB Production in the Nucleus Accumbens with a Minor in Neuroscience

Cecilia Tucker Cohen
Political Science: Inside the Far Right: An Analysis of Accelerationist Terrorism in the United States with a Minor in Visual Studies

Shana Anam Cohen-Mungan
English: The Future of Next Wednesday Night: Douglas Crimp's Queer Planning in an Early Year of AIDS

Thomas Coleman
Chemistry: A Meta-Analysis on the Use of Games as an Alternative Learning Tool in Chemistry Classrooms with a Minor in Health Studies and a Concentration in Biochemistry

Katherine Winstead Conn
Chemistry: A Computational Investigation of the Coating of Citrate-Capped Silver Nanoparticles

Joshua Cameron Dylan Corbett
Physics: Toward Advancing Atmospheric Water Capture Using Nanoscale Physical Structures with a Minor in Classical Culture and Society

May Courtney
Neuroscience: The Impact of Peripartum Estrogen Withdrawal on Dopamine Dynamics in the Nucleus Accumbens Core and Shell in Mice with a Minor in Psychology

Lilah Elizabeth Craig
Fine Arts
Neuroscience: The Effects of Peripartum Estradiol Fluctuations on Nucleus Accumbens Dopamine Dynamics in Mice

Charlie Crawford
Computer Science: Scene and Unseen: GPT Bias in Script Writing with a Minor in Environmental Studies

Alice Rebecca Creed

Scout Crooke
Biology: Investigating Changes in Microbial Communities and Soil Chemistry During Plant Succession at a Heavy Metal-Contaminated Field Site with a Minor in Environmental Studies

Celeste Catherine Cubbage
Physics: Demonstrating Fusion in an Inertial Electrostatic Confinement Device with a Minor in Economics

Allison Faye Cubell
Psychology: Subjective Social Status and Well-Being: The Role of Class-Based Identity Uncertainty in Early Adolescence with a Minor in Economics

Matthew James Curran
Biology: Developing a Jab Infiltration Protocol to Silence YUP Expression in Monkeyflowers with a Minor in Religion

Zora Catherine Dallmann
Anthropology: The Portal of Serendipity: Public Libraries, Children’s Rooms, and the Importance of Public Space for Caregivers

Guilherme Zeus Dantas e Moura
Mathematics: Combinatorial Models for Key Polynomials and Atom Polynomials
Paola Delgado Umpierre  
Chemistry: Unnatural Amino Acids as Vibrational Probes for Observing Dynamic Protein Structure with a Concentration in Biochemistry

Jordan Denaver  
Psychology: The Relationship Between Parental Strictness, Parental Warmth, and Youth Adjustment Outcomes Among European American and Asian American College Students with a Minor in Neuroscience

Matthew Finbar Denton  
English: “How Much Should Not Have Happened”: Optimism, Trauma, and Authorship in Chimamanda Ngozi Adichie’s Half of a Yellow Sun

Simon Gregory Dickinson  
Physics: The Effect of Hydrogen on the Photoconductivity of Tetrasakis(4-Sulfonatophenyl)Porphine J-Aggregate (TPPS4) Nanowires with a Minor in Economics

Jillian Grace DiTommaso  
Political Science: Is Motherhood Bad for Business? An Investigation Into the Benefits and Drawbacks of Family Leave Policies on Women and Businesses with a Minor in Economics

John A. Donovan IV  
Political Science: Between the Bars: Explaining Provisional IRA Responses to Incarceration, 1971–2000 with a Minor in Religion

Ravi Surya Eaton  
Neuroscience: The “Default Mode Network” as a Physiological Marker for Neuropsychiatric Changes From Mindfulness and Meditation

Kirin Berkley Eicher  
Economics: Collective Safety: The Impact of Right-to-Work Legislation on Workplace Injury Rates with a Minor in Statistics

Seun Olabode Eisape  
Computer Science: An Examination of the Sensitivity of Transformer-Based Machine Translation Models to Linguistically Motivated Perturbations

Mia Ellis-Einhorn  
Computer Science: Influence and Equity in Faculty Co-Authorship Networks with a Minor in Visual Studies

George Delellis Evans  
Physics: Evolutionary Neuromorphic Networks for Drone Simulation

Ophelia Evans  
Environmental Studies: Reimagining Manufacturing Through the Artistic Process with a Minor in French and Francophone Studies

Taliyah A. Evans  
Biology: Tissue-Specific Extracts from Pinus densiflora Attenuate Toxicity by Different Mechanisms in Caenorhabditis elegans with a Concentration in Biochemistry

Syeda Fatima Faheem  
Biology: Exploring the Effects of Acer rubrum and Acer saccharum Extracts on Amyloid-β-Induced Toxicity in a Drosophila melanogaster Alzheimer’s Disease Model

Nikki Farrell  
Neuroscience: Investigating the Therapeutic Effects of Sugar Maple Extract on a C. elegans Model of Huntington’s Disease with a Minor in Health Studies

Charles Mitchell Ferguson  
Chemistry: Site-Specific Incorporation of Two Non-Canonical Amino Acids as Raman Vibrational Probes of Acyl Carrier Protein Dynamics with a Minor in Philosophy and a Concentration in Biochemistry

Alexa Marie Finkele  
Mathematics at Bryn Mawr College

Giavanna Rose Flamini  
Chemistry: Exploratory Synthesis of Nickel Halide Perovskitoids

William Kim Flanders  
Astrophysics: Using HI Observations to Test Ultra-Light Axion Dark Matter with a Concentration in Scientific Computing

Arden Miko Sakyo Fleming  
Fine Arts: An Exhibition of Pop-Up Pages Printed Using Lithography and Monotype Techniques Exploring the Theme of Memory with a Minor in Japanese Language

Clare Alice Fleming  
Chemistry: Discovery of Lead-Free Perovskites Using High Throughput Experimentation with a Minor in Classical Culture and Society
Annabel Junko Flint
Biology: Symbiont-Host Relationships: Protocol Development to Visualize Wolbachia in Drosophila Embryos, and Preliminary Investigation Into Observed Patterns
Fine Arts: My Ukiyo-e / 私の浮世絵

Gabrielle Espiritu Fontanilla
Psychology: Quantitative and Computational Narrative Approaches to Relations of Age, Generational Status, and Family Influences on Bicultural Identity with a Minor in Data Science at Bryn Mawr College

Jacob Seiji Foster
Sociology: East to West: International Educational Migration of East Asian Undergraduates to the United States
International Studies at Bryn Mawr College: Beyond Borders: Growth and Transformations in International Tertiary Students’ Choice of Destinations with a Minor in East Asian Languages and Cultures

Gabriel Franklin
English: “Will You Not Hear Me?” Trauma, Voice, and the Uncanny in Wieland and the Construction of American Literary Tradition with a Minor in Economics

Sasha Rain Freedman
Environmental Studies

Max Friedmann
Psychology: The Pursuit of Certainty: Exploring Status-Based Identity Uncertainty’s Influence on the Relationship Between Social Mobility Belief and Adolescent Well-Being
with a Minor in Psychology

Nora Ruth Gaby-Biegel
Neuroscience: Diving Into the Gene Pool: Investigating the Localization of ap2s1 Expression During Habituation in Zebrafish with a Minor in Psychology

Oliver Luke Galea
Mathematics: Using Alternating-Sign Matrices to Discuss Recurring Applications in Representative Structures with Minors in Psychology and Statistics and a Concentration in Mathematical Economics

Reesha Gandhi
Psychology: The Influence of Advertising: A Cross-Cultural Study with a Minor in Visual Studies

Annais Margot Gangolf
Economics: Refinancing and Consumption: Evidence from BLS Microdata with a Minor in Mathematics at Bryn Mawr College

Gabriella Estephania Garza
Biology: Investigating the Effect of Juvenile Hormone on the Growth and Adhesion of Crithidia fasciculata in a Mosquito Hindgut Model

Owen Zachary Genco-Kamin
Psychology: No Laughing Matter: Gender’s Relationship to Comedy and the Psychology of Humor with a Minor in Child and Family Studies at Bryn Mawr College

Angelina O’Hara Geralis
Computer Science: Predicting Stock Prices Using Machine Learning with a Minor in Economics

Atira Glenn-Keough
Mathematics: Outer Space and Entropy with a Minor in Anthropology

Natalie Sonia Goeler-Slough
Biology: Unraveling the Molecular Underpinnings of How a Bacterial Signal Protects Oceanic Phytoplankton from Viral Death with a Minor in Environmental Studies

Kylan Sydney Gould
Sociology: “He Wasn’t Supposed to Die”: How College Students Coping With Peer Loss Differ From Other Groups of Grievers with a Minor in Educational Studies

Fiona Gowin
Anthropology with a Minor in Psychology

Devansh Goyal
Economics: Intracoalition Dynamics in India: Analyzing Strategic Transfers and Stability Mathematics at Bryn Mawr College

Benjamin Graham
Economics: Prime Opportunity: Amazon’s Expansion and Teen Education Attainment Mathematics with a Minor in Philosophy

William Thomas Graves
Political Science: Democratizing Transit Planning: The Role of Democratic Planning in Overcoming Obstacles to Equitable Transit Policy
Meghan Renee Guberman
Psychology: *Lost in Transition: Exploring How Social Status and Gender Moderate the Relationship Between Adolescent Loneliness and Class-Based Identity Uncertainty* with a Minor in Child and Family Studies at Bryn Mawr College

Lydia Rose Guertin
Astronomy and Physics: *Structures of the Interstellar Medium: Connecting Scintillation Phenomena in Multiwavelength Millisecond Pulsar Data* with a Minor in Religion and a Concentration in Peace, Justice, and Human Rights

John Lachlan Gunsbury
Economics: *Holy Crop! The Effects of the 2014 Farm Bill on U.S. Cropland Value*

Matthew Gusdorff
Computer Science: *Evaluating Bias in a GAN’s Latent Space* with Minors in German and German Studies and Mathematics at Bryn Mawr College

Lucca Marcello Guzmán-Gieseken
Political Science: *Language in the Court: The Supreme Court’s Effect on Public Consciousness Regarding Queer Rights* with a Minor in Visual Studies and a Concentration in Peace, Justice, and Human Rights

Jason Daniel Haas
Chemistry: *Synthesis and Characterization of Short-Chain Conjugated Alkynyl-2H-Azirines* with a Concentration in Biochemistry

Famo Haji
Neuroscience: *Examining the Effects of Mindfulness-Based Interventions on the Mental Health of Children Who Have Experienced Early-Life Adversity*

Cole Hannah
History of Art at Bryn Mawr College: *Afrosurreal: Behold the Invisible Worlds of Ringgold and Kentridge* with a Minor in Africana Studies at Bryn Mawr College

William Blackburn Haresch
Physics: *Investigating Experimental Methods for Enhancing the Flow Rate of Liquid Suspensions* with Minors in Astronomy and Music

Emily Keeley Harrington
Political Science: *Building More Inclusive Schools: Exploring Boston’s METCO Program* with Minors in Economics and Health Studies

William Stuart Harris
History: *Dare to Look: Manuel Godoy’s Secret Cabinet and Enlightenment in 18th-Century Spain* with Minors in Spanish and History of Art at Bryn Mawr College

Hannah Lynn Harrison
Chemistry: *Developing a Modular Synthetic Route to Access a Library of 2H-Azirine Derivatives* with a Minor in Classical Culture and Society

William Jay Hatfield
Physics: *Using HR5 to Explore the Gravitational Wave Background* with a Minor in Economics

Theresa Ann Haupt
Chemistry: *A Molecular Dynamics Investigation of the Solvent Structure Around Terminal Alkyne Probes to Explain Solvatochromism* with a Concentration in Biochemistry

Keqing He
Mathematics: *Categorical Data Analysis of Perovskite Synthesis Data: The Relationship Between Synthesis Input and Output* with a Minor in Chemistry and a Concentration in Scientific Computing

Elizabeth Margaret Healy
Economics: *Behind the Box Office: Directorial Influence on Film Revenue in the U.S. Entertainment Industry* with a Minor in Mathematics

Jonathan Hill Jr.
Computer Science: *Reducing Barriers to CS Through the Use of N-Dolphin/Orc2a*

Daniel Ralph Hoehler
Physics: *Trainable Solar Cell Activity of TPPS4 Nanowires* with a Minor in Economics

Abigail Grace Holland
Neuroscience: *Exploring the Effects of Social Isolation on Novel Object Recognition (NOR) in Danio rerio*

Katherine Yujung Hong
History: *China to China: Consolidating a National Identity Through Porcelain in 18th-Century Britain* with a Minor in Fine Arts

Yiping Hou
Growth and Structure of Cities at Bryn Mawr College
Ahlam Mohamed Houssein
Biology: Investigating Synthetic Ecdysone and the Life Cycle of Crithidia fasciculata: Effects on Parasite Growth, Adhesion, and Morphology in a Mosquito Hindgut Model with a Minor in Health Studies

Nam Trận Huỳnh
Neuroscience: Tripping to Treatment: Psychedelic-Induced Neuroplasticity for Treatment-Resistant Depression?

Dylan Lee Ioffreda
Growth and Structure of Cities at Bryn Mawr College

Aby Isakov
An Independent Major in Visual Studies: Queer Filmmaking and the Pleasures of Experimentation with a Minor in Sociology

Arushi Ishwar
Psychology: Exploring the Effects of Social Isolation on Novel Object Recognition (NOR) in Danio rerio with a Minor in Health Studies

Kaj Jensen
Political Science: Orientalism and American Knowledge About China in Foreign Affairs Magazine with a Minor in Chinese Language

Tanvi Jha
Political Science: From the Ganges to the Great Barrier Reef: Unraveling India’s Indo-Pacific Engagement with a Minor in History at Bryn Mawr College

Daren Jin
Economics: The Effect of Housing Costs on Fertility in the U.S.

Taylor Aiyanna Johnson
Sociology: Understanding Black Culture Through the Eyes of Non-Black POC Communities with Minors in Anthropology and Africana Studies at Bryn Mawr College

Maya Greene Johnson-Fraudin
History of Art at Bryn Mawr College: The Witch as a Mirror: Dürer and Grien’s Demonization of the Female Body

Gabriel Rocco Johnson Sotero
Chemistry with a Concentration in Biochemistry

Pendo Lucy Wanjiru Kamau
Anthropology: Making the Home, Planning the Town: Exploring Spatial Imagination in Residential Nairobi with a Minor in French and Francophone Studies

Julia Rose Katowitz
Psychology: Parent-Child Relationship Quality Moderates the Association Between Strict Parenting Behaviors and Child Help-Seeking and Mental Health for Asian American and European American College Students

Jean Rose Katz
Chemistry: Investigating the Role of Nitration in the Phase Separation Behavior and Aggregation Properties of Alpha Synuclein Using Vibrational Spectroscopy with a Minor in French and Francophone Studies and a Concentration in Biochemistry

Mitali King Kessinger
Computer Science: Comparing Simplex and Interior-Point Linear Optimization Methods for a Multi-City Transportation Problem

Bela Khanna

Henry Clay Killoren
Political Science: Addressing the Housing Crisis: A Blueprint for Building More Affordable Housing in San Francisco

Sadie Chaehi Kim
Chemistry: Investigation of N-Terminally Acetylated Alpha Synuclein and Its Membrane-Binding Behavior Through the Incorporation of an Alkyne Probe via L-Homopropargylglycine with a Minor in Health Studies and a Concentration in Biochemistry

Trinity Rae Kleckner

Curtis Kline
Growth and Structure of Cities at Bryn Mawr College: The Limits of Cooperation: Inclusion and Exclusion in the Interactions of Food Co-Ops and Their Evolving Neighborhoods
Daniel Aizik Kogan  
Environmental Studies: *Foie Gras in the Modern World: A Culture Staple or an Unsustainable Relic?* with a Minor in Creative Writing at Bryn Mawr College

Stevie Harmon Kollin  
Sociology at Bryn Mawr College with a Minor in Gender and Sexuality Studies

Naomi Bleier Komatsu  
Anthropology: *Navigating Health Care Worlds: Community, Belonging, and Care at Haverford College During the COVID-19 Pandemic* with a Minor in Health Studies

Jessica Korgen  
Environmental Studies: *Live Fast, Die Young: Examining Hydraulic Conductivity of the Extinct Lepidophloiois and Extant Wollemia nobilis;* with a capstone project entitled *Hold the Salt: Effects of Road Salt on Freshwater Systems in the Delaware River Basin* with a Minor in Psychology

Eli Harry Kravinsky  
Political Science: *Purging the Regime’s Protectors: Why Do Authoritarian Leaders Purge Their External Security Organizations?*

Emi Krishnamurthy  
Neuroscience: *Medial Prefrontal-Cortex Calcium Dynamics During Innate-Threat Virtual Reality Simulations in Mice*

Halley J. Kucirka  
Mathematics: *The Group Action of the Free Group on the Culler-Vogtmann Space* with a Minor in History of Art at Bryn Mawr College and a Concentration in Scientific Computing

Peter Kulowiec  
Mathematics: *Metrics on the Outer Space of Graphs* with a Minor in Music

Samanyu Kurra  
Economics: *Reaching for the Sky: Signaling Through Building Height in Real Estate Development* Mathematics at Bryn Mawr College

Boahen Nimako Kwakye  
Biology: *Leveraging Electroporation for Gene Modification with CRISPR-Cas9 Complex in Chlamydomonas reinhardtii*

Allyson Rachel Landau  
Psychology: *Gender Race Intermodal Perception (GRIP)* with a Minor in Environmental Studies

Allison Flory Landweber  

Marlena Langdon  
Biology: *The Role of Phase Variation in the Production of Starvation-Induced Cell Fates in Myxococcus xanthus Biofilms* with a Minor in Fine Arts

Matthias Langer  
Biology: *Investigations Into the Effect of Acer rubrum Extract and Experimental Design of an Amyloid Beta Oligomer Quantification Assay in a Caenorhabditis elegans Model of Alzheimer’s Disease*

Maya Elena Langer  
Biology: *Bumblebees Rely on Olfactory Signals to Choose Between Mimulus Flowers: How Multimodal Signal Interpretation Shapes Floral Preference* with Minors in Latin and English Literature at Swarthmore College

Mimi Lavin  
Chemistry: *Quantifying Oxidative Stress Through Machine Learning and Raman Spectroscopy* with a Concentration in Scientific Computing

Naomi Lawrence  
Fine Arts: *An installation of Hand-Dyed Fabric Printed With Hand-Carved Woodcuts*

Ilana Page Lehman  
English: *The Tremendousness of Ordinary Moments: Psychological Chaos and Experiential Wholeness in Virginia Woolf’s The Waves*

Peter Lehv  
Applied Mathematics with a Minor in Economics

Lillian Bess Leibovich  
Linguistics: *The Deletion of the Causative Prefix o-in Valley Zapotec as a Morphophonological Phenomenon* with a Minor in Theater Studies at Bryn Mawr College
Nathaniel O. Leighninger  
History: The Assignat in the Rhineland-Palatinate, 1789–1796  
Economics at Bryn Mawr College: Mine Closures and Demographic Decline in West Virginia

Harrison Tyler Lennertz  
Biology: Genetic Rescue of Chlamydomonas reinhardtii Strain CC-5090 to Preserve Phenotype of High-Efficiency Oligonucleotide-Directed Mutagenesis with a Minor in Music

Nicole Jiahan Li  
Psychology: Feeling With the Body: Cultural Variations in the Use and Efficacy of Body-Oriented Emotion Regulation with Minors in Philosophy and Statistics

Jiaxin Li  
Philosophy: How to Fit a Tree Through a Tight Window: Unveiling the Poetic Power to Articulate the Ineffable

Kevin Kaiwen Li  
Chemistry: Developing an In Vitro Biosynthetic Platform to Increase Type II Polyketide Structural Diversity with a Concentration in Biochemistry

Neville Clark Linden  
Economics: Crises of Confidence: Description and Comparative Analysis of Mid-Size Bank Failures, 2008–09 and 2023 with Minors in Mathematics and Computer Science at Bryn Mawr College

Becca Lindenbaum  
Physics: Magnetic Obstacles in a Plasma Wind Tunnel with a Minor in Astronomy

AJ Lockner  
Environmental Studies: Reenvisioning Bryn Mawr’s Green Space

Brian Lorenz  
Economics: Analyzing Loss-Aversion Through NBA Free Throw Performance

Alex Lu  
Neuroscience: Aging Gracefully: Exploring Successful Cognitive Aging in Recognition Memory

Tasneem Mabrouk  
Growth and Structure of Cities at Bryn Mawr College: Creating Community: Italian and Southeast Asian Placemaking in South Philadelphia with a Concentration in Peace, Justice, and Human Rights

Kelsey Nicole Mabry  
Chemistry: Beta-Hydroxybutyrate Mitigates Polyglutamine Toxicity Phenotypes in a Caenorhabditis elegans Model of Huntington’s Disease with a Minor in Neuroscience and a Concentration in Biochemistry

Yanna Grace Madison  
Linguistics

Luke Blume Mandel  
Political Science: Repeated Coercive Migration: Why Do Target States Keep Losing?

Katelyn Mann  
Neuroscience: Individual Differences in Emotion Regulation: A Neurophysiological Investigation Evaluating the Late Positive Potential

Emma Sophia Hartry Martignoni  
Astrophysics: Investigating the Impact of Galactic Environment and Mass on Radial Trends in Star Formation Rate

Margaret Martin  
Chemistry: Examining the Persistence of Oil From the 2010 Deepwater Horizon Oil Spill with a Minor in Anthropology

Sunny Martinez  
Education Studies with a Concentration in Peace, Justice, and Human Rights

Ben Mawn-Mahlau  
Anthropology: Being Medicated: Social and Diagnostic Marking in ADHD and Anxiety with a Minor in Health Studies

Eleanor Marie McMahon  
Computer Science: An Analytical Approach to Higman’s Lemma with a Minor in Mathematics

Olivia Marie McMillan  
English: The Palliation of Poetry: Expressing the Pain-Language Relationship in Theory and in Dickinson with Minors in Health Studies and Psychology

Sarah Michelle McNamara  
Chemistry: Progress Toward the Synthesis of Natural Product (R)-Dysidazirine with a Minor in Health Studies
Monica I. Mena Cordero
Economics: Financial Access and Foreign Direct Investment Impact on the Relation Between Economic Growth and Inequality
with a Minor in Spanish and a Concentration in Latin American, Iberian, and Latinx Studies

Petra Tenna Mengistu
Astronomy and Physics: The Role of Galactic Bars on Regulating Star Formation
with a Concentration in Scientific Computing

Ben Menko
Computer Science: Natural Language Explanations for Image-Classification Decisions

Laura Mercedes
Anthropology: Homesick for Another World: Analyzing the Methods and Efficacy of Neo-Shamanism
Political Science: Beyond Statues, “Amusing Metaphors,” and “Noble Savages”: Examining the Modern Environmental Movement’s Relationship With Symbols of Indigeneity

Ruth Pilar Mercedes
History: “Between Civilization and Sundown”: The Daughters of the American Revolution and Westward Expansion
Spanish: “Regina entre las flores”: Las diversas construcciones de Regina Teuscher y la formación del ícono del 1968

Jackie Merino
Psychology at Bryn Mawr College

Caleb T. Miller
Philosophy

Lucas Linden Miller
Psychology: Choice and Efficacy of Emotion-Regulation Strategies in Relation to Stigma and Implicit Bias: Impact of Reappraisal, Disengagement, and Donation on the Late Positive Potential
with Minors in Neuroscience and Data Science at Bryn Mawr College

Samuel David Millie
Economics: An Examination of AI-Powered Exchange-Traded Fund (ETF) Returns and Their Exposure to ESG

Alex Peter Millones
History: Clotilde Arias: A Champion of Inclusive Pan-American Cultural Exchange in New York City, 1930–1950
with a Concentration in Latin American, Iberian, and Latinx Studies

Olivia Hope Mihee Min
Literatures in English at Bryn Mawr College: Redefining and Reclaiming Horror: Exploring the Capabilities of the Horror Genre for Discussing Latina Experiences of Motherhood in the United States in “The Husband Stitch”
with a Minor in Classical Culture and Society

Alexandra Renee Miranda Castellón
French and Francophone Studies: Le paradoxe de la mécanisation: L’héritage de Descartes dans la culture française du XVIIe siècle
Psychology: “Shame on You”: Collectivistic Cultural Values Influence the Relationship Between Shame Experiences and Psychosocial Well-Being

Calum Lee Mitchell
Applied Mathematics: Adapting Algorithms for 15-Minute Cities

Sophia Gabrieelle Loperfido Mohammed
Biology: CheA Homologs Regulate Motility and Fruiting Body Formation in the Myxococcus xanthus Stress Response

Helen Emily Moniz
Biology: Understanding the Effects of Estrogen Receptor α and β Activation in the Ventral Tegmental Area on ΔFosB Production in the Nucleus Accumbens Following a Hormone-Simulated Pregnancy
with Minors in Environmental Studies and Neuroscience

Rafael Montero Caro
Anthropology: Desfallecimiento: Displacement, Racial Capitalism, and Bureaucracy in Puerta de Tierra, Puerto Rico
with a Minor in Health Studies

Mina Moore
Psychology: A “Maturational Crisis”: A Logotherapeutic Proposal for Postpartum Depression in Adolescence

Cecilia V. Morales
Biology: Establishing a Neuronal Requirement for ap2s1 in Modulating Zebrafish Escape Behavior
with a Minor in Health Studies
### Gabriel Jose Morillo
Political Science: *Black Pride in African Hair* with a Minor in Africana Studies at Bryn Mawr College and a Concentration in Peace, Justice, and Human Rights

### Maxwell Chase Mouer
Political Science: *Do Circumstances Matter? Exploring the Relationship Between Extreme Weather Events and the Future of Climate Change Opinion*

### Shahla Hamar Mukhtar
Chemistry: *Characterizing Activation and Acylation Abilities of Diverse Non-Actinobacterial Acyl Carrier Proteins in Type II Synthases* with a Minor in Visual Studies

### Cyrus Quinn Nasser
Chemistry: *Exploratory Chemistry: Amine-Templated Copper Selenite Synthesis* with a Concentration in Biochemistry

### Victor Nault
Computer Science: *Co-Design for Edge Intelligence: Binary Neural Networks*

### Victoria Nelson
Philosophy: *Letting Go of Referential Meaning: A Move Toward Allowing for Spontaneity and Openness in Art Experience*

### Erin Nicole Ng
Neuroscience: *A Neurophysiological Examination of Individual Differences in Emotion Regulation Through Investigations of the Late Positive Potential* with a Minor in Psychology

### Mata Weerin Ngochanthra
Biology with a Minor in Chinese Language

### Camden N. Nguyen
Biology: *Pollen Macronutrient Ratios as a Potential Part of Pollinator Syndrome and Speciation Driver in Flower Family Mimulus*

### Rachel Lauren Pincus Niebler
Mathematics: *Computing the Entropy Metric on Callier-Vogtmann Outer Space* with Minors in Educational Studies and Psychology

### Aryaman Nirvan
Economics: *The Impact of Ground Transport Apportionment on Motor Vehicle Fatalities in the United States*

### Julia Emily Noppenberger
Biology: *The Role of Peptidoglycan Hydrolase Genes in the Developmental Autolysis of Myxococcus xanthurus* with a Minor in Psychology

### Alikhan Ermekuly Nurkhaidarov
Chemistry: *Investigating the Delaware Bay Mystery Oil Spill* with a Minor in Health Studies

### Mina Alexandra Oates
Neuroscience: *Emotion Regulation and the Late Positive Potential in the Context of Stigma and Implicit Bias* with Minors in Psychology and Data Science at Bryn Mawr College

### Michael O’Connell
Russian at Bryn Mawr College: *The Supreme Privy Council and Empress Anna Ioannovna: A Historiographic Overview from Karamzin to the Great Soviet Encyclopedia*

### Emily Oh
Pure Mathematics: *Physiologically Based Pharmacokinetic Modeling and Time-Varying Parameters* with a Minor in History of Art at Bryn Mawr College

### Rebecca Ann Osbaldeston
Biology: *Developing a CaMPARI 2.0 Pipeline to Identify Regulatory Neural Populations Vital to Acoustic Habituation in Zebrafish* with a Minor in Health Studies and a Concentration in Biochemistry

### Santiago Ospina Duran
Psychology: *A Synthesis of Theories Exploring the Roots of Intergroup Conflict: Colombia-Venezuela as a Case Study* with a Minor in History at Bryn Mawr College and a Concentration in Latin American, Iberian, and Latinx Studies

### Micah Elijah Painter
Computer Science: *Usability and Effectiveness of Technology to Facilitate Self-Regulation in Students With Disabilities*

### Kimberly Jeanett Palacios
Biology: *Studying Unexpected Interactions Between Bacteriophage T4IIA and E. coli in an Experimental Evolution Model* with a Minor in Health Studies
Keon Parsa  
Growth and Structure of Cities at Bryn Mawr College: Bicycle Policy and Infrastructure in the United States: Challenges of Governance, Fragmentation, and Culture with a Minor in Political Science at Bryn Mawr College

Avi Sandeep Patel  
Physics

Eleanor Ryan Patton  
Psychology: Gender Race Intermodal Perception: Can Children Assume Group Membership Using Audio Cues? with Minors in Educational Studies and Mathematics

Jorge Arnaldo Paz Reyes  
An Independent Major in Latin American and Latinx Studies: Shaping the Imaginary: Exploring the Role of Instagram in the Identity Construction of the Central American Diaspora

Andrew Briggs Peebles  
Neuroscience

Thomas Francis Pelish III  
Political Science: Cops Amidst a Crisis: An Inside Look at Rochester, New York's New Approach to Responding to Mental Health Crises with a Minor in Spanish

Thomas Elliott Petrie  
Neuroscience

Trisha Phan  
Chemistry: Investigating Interactions Between Acyl Carrier Proteins and Ketosynthases in Type II Fatty Acid Synthases with a Minor in Health Studies

Maya Plimack  
Growth and Structure of Cities at Bryn Mawr College: Envisioning a “Better Philadelphia”: The Evolution of Role and Methodology of Philadelphia City Planners

Luca Ponticello  
Fine Arts: An Exhibition of The Room

Michael Rabayda IV  
Computer Science with a Minor in Mathematics at Bryn Mawr College

Chandini Ragobar  
Computer Science: Data-Driven Insights Into Opioid Trends Through Bayesian Analysis

Nicolas S. Ramos-Zapata  
Spanish: De Nueva York a la “Capital Mundial de la Salsa”: Procesos de Cosmopolitismo, Transnacionalismo, y Globalización de la Salsa a Cali, Colombia en el Siglo 20

Shiza Rana Magar  
Sociology at Bryn Mawr College with a Minor in Computer Science at Bryn Mawr College

Hassaan Farid Rao  
Economics: The Impact of Fiscal Decentralization on Voter Turnout: A Case Study of Spain

Levi Yoder Raskin  
Anthropology and Biology, both at Bryn Mawr College: Testing the Utility of Dental Microstructure for Middle Pleistocene Hominin Taxonomy

John Adam Ratliff  
Mathematics: On the Classification and Representation of Coxeter Groups with a Minor in Religion

Justin Reed  
Computer Science with Minors in Chinese Language and Economics

Maria Teresa Reyes Pacheco  
Sociology: Political Alienation and Engagement of Latinos in North Philadelphia with a Concentration in Latin American, Iberian, and Latinx Studies

Emmeline Grace Rienieau  
Physics: Open-Source FPGA Control for Nitrogen-Vacancy Quantum Sensing: Quantum Instrumentation Control Kit - Defect Arbitrary Waveform Generator (QICK-DAWG) with a Minor in Literatures in English at Bryn Mawr College

Jonathan Rigberg  

Thea Risher  
Psychology: Drawing From Therapeutic Techniques and Cognitive Understanding to Create an Anti-Racist Invention for Adolescents Education Studies with a Minor in Religion
Kassandra Victoria Rodriguez
Political Science: The Oppression of Motherhood: Manipulating Motherhood as a Tool of Exploitation in Surrogacy and Nannies with a Minor in Psychology at Bryn Mawr College

Alex Rodriguez-Gomez
Environmental Studies: "A River Filled With Ghosts": Geography, Memory, and Citizenship at the Massacre River with a Concentration in Latin American, Iberian, and Latinx Studies

Camden Parker Robinson Rogers
Psychology

Liliana Rokita
Fine Arts: An exhibition entitled Fluidity Psychology: The Effects of Early-Life Stress on the Development of Object Recognition and Associative Memory in Juvenile Rats

Ana Victoria Romero
English: The Impossible “Monster”: The Deconstruction and Reframing of the Human and the Animal in Mary Shelley’s Frankenstein

Isabella Victoria Rose
Economics: The Interplay Between the Minimum Wage and the Gig Economy in Metropolitan Areas

Dylan Lloyd Rothbort
Biology: Investigating Transcriptional Processing in Breast Cancer: The Role of the TBXA2R Isoforms

Matthew Henry Ruiz
Chemistry: Synthesis of DPI3tren and DPIdeen: Two Novel Guanidine-Based Ligands
Spanish: El cuerpo social enfermo: Medicina y autoridad en dos películas creadas después de la dictadura en Argentina

Isabel Russak
Psychology: "Trauma Halts Possibility; Movement Activates It": A Neuroscientific Exploration of Dance Movement Therapy and Its Treatment Potential for PTSD with a Minor in Neuroscience

Abigail Jane Russano
Biology: Studying the Functionality of ATP6, a Nuclear Encoded Mitochondrial F1F0-ATP Synthase Subunit, in Chlamydomonas reinhardtii with a Minor in Environmental Studies

Mac Sanders
Economics: Growth and Structure of Cities at Bryn Mawr College: Black Greenwood: Neighborhood Destruction, Master Planning, and Community Erasure in North Tulsa

Theo Samuel Schefer
History: "All the Singular Phenomena to Which Man Is Subject": The Wistar Museum, 1818–1905 with a Minor in Museum Studies at Bryn Mawr College

Benjamin Charles Schiltz
History: Mastering Politics Through Games: Alfonso X’s Libro de Los Juegos with a Minor in Spanish

Samuel Schindel
Economics: The Effect of Estate Taxation on Elderly Migration with Minors in Statistics and Mathematics at Bryn Mawr College

Emma Miller Schwartz
Anthropology: Between Living the Future Now and the Possibility of Nightmares: Resisting Carceral Time and the Emergence of Abolitionist Temporalities Within Assata, Changó, el gran putas, and Inside/Outside Prison Organizing in Pennsylvania Comparative Literature with a Minor in Spanish

Aissatou Dorothy Seck
Anthropology: Planted by the Water: Reflections on Identity, Activism, and Haverford

Luke Sheppard
Anthropology: Spaces of Moroccan Blues: Aesthetics and Identity-Formation in Gnawa Music with a Minor in Africana Studies at Bryn Mawr College

Eva Elisabeth Shin
Biology: Whole-Brain Imaging to Identify Active Neural Populations in Decision-Making and Learning Processes of the Larval Zebrafish Acoustic Escape Response with Minors in Environmental Studies and Neuroscience

Oleh Noah Shostak
Economics at Bryn Mawr College

Ethan C. Sicher
Biology: Modifying the Chloroplast Genome of Chlamydomonas reinhardtii With a Marker-Free Selection at Single Base-Pair Precision
Joseph Alexander Silvestri  
Physics: Exploring the Effect of Induced Electric Fields on the Viscosity of Liquid Suspension

Riley India Sobel  
Political Science: Addressing the Plight for Justice: A Comparative Evaluation of Trial Mechanisms and Their Contributions to Transitional Justice Efforts in Post-Conflict Rwanda  
with Minors in Journalism and Photojournalism (Independent) and Psychology  
and a Concentration in Peace, Justice, and Human Rights

Morgan Soutos  
Computer Science: Formalizing Number Theory With Coq  
with a Minor in Mathematics

Frida Spatscheck  
Economics: Does the Lilly Ledbetter Fair Pay Act Change the Gender Wage Gap in the Healthcare Sector?  
with a Minor in German and German Studies

Matthew Spencer  
Economics: An Investigation Into the Existence and Causes of the Recent Divergence Between U.S. Consumer Sentiment and Macroeconomic Conditions  
with a Minor in Statistics

Michaela Jayne Spurr  
History of Art at Bryn Mawr College: Andy Warhol: Disrupting the Simulacrum

Indy Srijumnong  
Astrophysics: Wavelength and Sensitivity Calibration of Slitless Spectrograph on the Strawbridge Observatory 16-Inch Telescope  
with a Minor in Philosophy

Melanie Jayne Spurr  
Chemistry

Neha Thumu  
Computer Science: Procedural Content Generation for Puzzles and Mobile Augmented-Reality Controllers  
with a Minor in Environmental Studies and a Concentration in Biochemistry

Annika Soranno Shiming Torng  
History: Negotiating Womanhood: Female Suicide During the Ming-Qing Transition and the May Fourth Period  
with Minors in Chinese Language and Economics

Joel Torres  
Computer Science: Facilitating Emotional Wellness Through Virtual Reality  
with a Minor in Japanese Language

Fadi Totah  
Neuroscience: A Data-Centered Approach for Integrating Physiological, Neuroimaging, and Psychological Mindfulness Measures

Emil Karim Turdukulov  
Psychology: “They’re Not Really Angry at You”: The Moderating Influence of Individual Differences on Reappraisal of Negative Faces  
with a Minor in East Asian Languages and Cultures
JT Turner
Astrophysics: How Couplings to Other Fields Affect Oscillon Formation with a Minor in Classical Culture and Society

William Theodore Budach Veatch
Mathematics: Foundations in Cubical Type Theory with a Minor in Physics

Kevin Villafañe
Biology: Capturing Zebrafish Neural Activity During Habituation Using CaMPARI 2.0

Katelyn Thien Vo
Economics: The Impact of COVID-19 on Vietnamese Bank Performance: The Role of Ownership Structure with a Minor in Data Science at Bryn Mawr College

Lukas Alaie Voelkner
Political Science: Macroeconomic Framework for Understanding Societal Cycles and Inflection Points in Ideology and Public Policy

Sophia Kathryn Wagner
Environmental Studies: Life in the Carboniferous Coal Swamp Forests: Reconstructing the Paleoeophysiology of the Extinct Horsetail Sphenophyllum; with a capstone project entitled Quilting Ecologies: Pennsylvania Tree Memorial Quilt Project Biology at Bryn Mawr College: Xylella fastidiosa: An Emergent Plant Bacterium of Consequence with a Concentration in Peace, Justice, and Human Rights

Thomas James Walker
Biology: Optimizing a Reproducible Myxococcus xanthus Spore Assay for Examination of Programmed Cell Death in a Community with a Minor in History at Bryn Mawr College

Alec Wallach
Physics: Investigating Granular Materials: A Network Approach

Jian Wei
History
Growth and Structure of Cities at Bryn Mawr College: Between Segregated Enclave and Ethnic Suburbia: New Chinatown and Chinese American Agency in Los Angeles

Margaret Weisblum
Psychology: The Relationship Between ACEs, Health Outcomes and Behaviors, and Protective Factors in First-Year Undergraduate Students with a Minor in Health Studies

Callia Erin Weisiger-Vallas
History: Imprinting the Celestial: Gender and Astrology in 16th-Century France with a Minor in History of Art at Bryn Mawr College

Wendy (Ping) Wen
Cognitive Science at Swarthmore College with a Minor in Mathematics

Anneke S. Wernerfelt
Computer Science: Model Feature Importance Scores Should Reflect Recourse with Minors in Neuroscience and Mathematics at Bryn Mawr College

Jay Livingston Whitesell
Mathematics: Theory and Application of Principal Component Analysis

Jason Connor Wild
Neuroscience: Enhancing the Role of Mindfulness Interventions in Preventing and Alleviating Symptoms of Parkinson's Disease

Summer Grace Williams
Political Science: Beyond the Curriculum: Bureaucratic Resistance Toward Anti-LGBTQ+ Education Policy

Rachael Selena Wong
Philosophy: Iterative Breaches of Trust

Alexandra Wood
Biology: Optimizing for Visualization of Wolbachia in Drosophila Species French and Francophone Studies: Le rôle des passions dans le bien-être et la santé selon Molière et Descartes

Jean Bonauto Wriggins
Political Science: From the “Pacto del Olvido” to “Nunca Más”: Explaining Variation in State Responses to Forced Disappearance in Argentina, Spain, and Chile Spanish: “Que no se olvide nunca que esto duele”: Trauma, posmemoria y la generación intermedia en la obra de Nona Fernández
Eugene Youji Yang
Economics: Work Beliefs and Success: Income and Subjective Well-Being with Minors in East Asian Languages and Cultures and Psychology

Tianbo Yang
Computer Science: Playing Ramsey Games Using a Q-Learning Agent
Mathematics

Xingyun Yang
Astrophysics: Forecasting LSST’s Sensitivity on Axion Masses and Fractions with Minors in Comparative Literature and Mathematics

Isabella Hanul Shin Yin
English: “Bearing Something Ordinary as Light”: Anti-Disciplinary Knowledge and the Cosmology of Black Birthing in Aracelis Girmay’s “The Black Maria” with a Minor in Psychology

Marcos Gabriel Yoc-Bautista
Chemistry: Synthesis and Characterization of a 2H-Azirine Chemical Probe with a Concentration in Biochemistry

Aidan James York
Geology at Bryn Mawr College: Creating a Database of Laramide-Era Shortening Directions From Original and Compiled Data for the Testing of Kinematic and Mechanical Models with a Minor in Classical Culture and Society

Daniel Zabezhinsky
Economics: Public Health Insurance Eligibility and Labor Outcomes with a Minor in Biology at Bryn Mawr College

Zhongyin Zhang
Psychology: Differential Dopamine Dynamics in the Nucleus Accumbens Core and Shell During Postpartum Estrogen Withdrawal Assessed Using Fast-Scan Cyclic Voltammetry with a Minor in Neuroscience

Baldwin Zhao
Biology: Investigating Potential Cross-Activation Between Different Streptococcus pneumoniae Competence System Variants

Logan Zurita McKinnon
English: Colonialism and Resistance: From Frank Herbert’s to Denis Villeneuve’s Dune

Completion of graduation requirements may not be confirmed by this program, as the College transcript serves as the sole official student record. Furthermore, this program only includes those thesis titles submitted by students before the print deadline.
ACADEMIC REGALIA

On ceremonial occasions, scholars wear academic gowns indicating the level of their degree and hoods indicating the field of the degree and the institution granting it. The origins of academic regalia date back to the 12th century, when gowns and hoods provided a layer of warmth in cold stone buildings. While observers may not be able to easily decipher each aspect of the regalia, they can readily appreciate the gowns, caps, and hoods as an expression of homage to more than 800 years of academic tradition.

Gowns
- At U.S. colleges and universities, the bachelor's gown is simply cut, with open, pointed sleeves.
- The master's gown is fuller, with oblong, square-cut sleeves and two horizontal bars on the sleeve.
- The doctor's gown is long, full-cut, with bell-shaped sleeves. It has velvet panels down the front and three horizontal bars on the sleeve, which are typically black, but occasionally feature the color indicating the field of learning. Some panels feature the seal of the institution. British doctoral regalia often feature an open front and no bars on the sleeves.
- The college or university president's gown is distinguished by four horizontal bars on the sleeve.
- Doctoral gowns are often black, but sometimes are a distinctive color representing the degree-granting institution, for example: Harvard's crimson; North Carolina's, Michigan's, Berkeley's, and Columbia's various shades of blue; Princeton's black and orange; Oxford's and Pennsylvania's red and blue; or Chicago's maroon.

Caps
All academic degree holders wear the mortarboard cap or the softer tam, which often feature tassels, though some universities abroad distinguish their degree holders with more unusual headgear.

Hoods
- The inner lining of the hood carries the color or colors of the institution that granted the degree, with multiple colors divided in chevrons.
- The color of the velvet border indicates the field of learning in which the degree was earned. Dark blue indicates philosophy; white, arts, letters, and humanities; golden yellow, science; scarlet, theology; purple, law; brown, fine arts and architecture; pink, music; green, medicine; copper, economics; lemon, library science; salmon, public health; light blue, education; and drab, business. Those who have attained a Doctor of Philosophy (Ph.D.) wear the dark blue of philosophy, even when their specific focus is not philosophy. For those individuals, the edging color of their hoods or the color of their gown panels may reflect the field of learning.

Haverford Examples
- President Wendy Raymond's robes are Haverford's red and black, with four bars, befitting her role as president. As her Doctor of Philosophy (Ph.D.) is from Harvard, her hood is bordered in dark blue and features Harvard's crimson in the hood liner.
- As Provost Linda Strong-Leek's Doctor of Philosophy (Ph.D.) is from Michigan State University, her robes are Spartan Green. Her gown's three bars indicate her doctoral degree; her hood's blue border represents her Ph.D., and its white satin edging signifies her field, English.
WELCOME FROM THE ALUMNI ASSOCIATION

On behalf of the almost 15,000 alumni who incorporate Haverford values into our professional, personal, and public lives, we are thrilled to welcome the members of the Class of 2024 to the alumni community! Congratulations to each of you on forging the auspicious path that has led you to this day. The Alumni Association Executive Committee (AAEC) plays a key role in building and maintaining lifelong relationships between alumni and the College, bridging generations of graduates, and providing career and coaching assistance to current students. We look forward to meeting you at upcoming alumni events and counting you all as our newest members.

—Beverly Ortega Babers ’84, Esq., President, on behalf of the AAEC

Thank you to our Commencement Committee Student Representatives

Jacob Seiji Foster ’24
Eleanor Ryan Patton ’24
Stefan Johnson ’25
Vy Le ’25
“I suggest that you preach truth and do righteousness as you have been taught, whereinsoever that teaching may commend itself to your consciences and your judgements. For your consciences and your judgements we have not sought to bind; and see you to it that no other institution, no political party, no social circle, no religious organization, no pet ambitions put such chains on you as would tempt you to sacrifice one iota of the moral freedom of your consciences or the intellectual freedom of your judgements.”

— President Isaac Sharpless
Haverford College Commencement, 1888

Photo by Jessica Korgen ’24