INTRODUCTION
Brad Story
Associate Dean, Faculty Affairs

WELCOME AND AWARDS OVERVIEW
Carmala Garzione
Dean, College of Science

PATENT AWARDS PRESENTATION
Douglas Hockstad
Assistant Vice President, Tech Launch
Arizona
University of Arizona Honors and Awards

Carol Barnes
Professor, Psychology & Director,
Evelyn F McKnight Brain Institute
Women of Impact, University of Arizona

Jessica Barnes
Assistant Professor, Planetary Sciences/Lunar
and Planetary Laboratory
Women of Impact, University of Arizona

Jean-Luc Bredas
Regents Professor,
Chemistry and Biochemistry
Regents Professor, University of Arizona

Daniella DellaGiustina
Assistant Professor, Planetary Sciences/Lunar
and Planetary Laboratory
Women of Impact, University of Arizona

Lisa Dollinger
Associate Professor of Practice,
Chemistry and Biochemistry
Gerald G. Swanson Prize for Teaching
Excellence, University of Arizona

David Enard
Assistant Professor,
Ecology and Evolutionary Biology
Early Career Scholar Award, University of Arizona

George Gehrels
University Distinguished Professor,
Geosciences
Excellence in Postdoctoral Mentoring,
University of Arizona

Thomas Gianetti
Assistant Professor,
Chemistry and Biochemistry
Early Career Innovation & Entrepreneurship Award, University of Arizona
Early Career Scholar Award, University of Arizona

Erika Hamden
Assistant Professor, Astronomy/Steward
Observatory
Women of Impact, University of Arizona

Janet Hawley
Associate Clinical Professor,
Speech, Language, and Hearing Sciences
LGBTQIA+ Ally Leadership Award, University of Arizona

Vance Holliday
Retired Professor, Geosciences and
Anthropology
Henry and Phyllis Koffler Prize in Research/
Scholarship/Creative Activity, University of Arizona

Kenneth Johns
Professor, Physics
Distinguished Professor, University of Arizona

Laura Miller
Professor, Mathematics
Biosphere 2 Faculty Innovative Teaching Fellowship, University of Arizona

Jeff Pyun
Professor, Chemistry and Biochemistry
Distinguished Innovation & Entrepreneurship Award, University of Arizona

Marcia Rieke
Regents Professor, Astronomy/Steward
Observatory
Women of Impact, University of Arizona

Joellen Russell
Professor, Geosciences
Distinguished Professor, University of Arizona

Lee Ryan
Professor and Department Head, Psychology
Women of Impact, University of Arizona

Valerie Trouet
Professor, Labratory of Tree-Ring Research
Women of Impact, University of Arizona

Tammi Walker
Associate Professor, Psychology and Law
Early Career Scholar Award, University of Arizona

Weigang Wang
Associate Professor, Physics
Distinguished Scholar Award, University of Arizona
2022 Issued Patent Inventors in the College of Science

Tech Launch Arizona (TLA) has initiated a new program to recognize University of Arizona inventors on patents issued in the previous fiscal year, acknowledging the contributions they make to increasing the impact of UA research. These individuals are also being awarded a coin that recognizes their specific patent(s) at World IP Day. **Alphabetical by Department.**

**James “Roger” Angel**, Regents Professor & **Justin Hyatt**, Instructor et al
Astronomy/Steward Observatory
“Solar PV Generator with Dish Reflector and Fly’s Eye Reciever”

**Christopher Walker**, Professor
Astronomy/Steward Observatory
“Spherical Reflector Antenna For Terrestrial And Stratospheric Applications”

**Craig A. Aspinwall**, Professor and Department Head & **Steven Scott Saavedra**, Professor Emeritus et al
Chemistry and Biochemistry
“Rapid Conductance Based Ion Channel Analysis”

**Craig A. Aspinwall**, Professor and Department Head et al
Chemistry and Biochemistry
“Surface-Modified Interfaces Of Pneumatic Valves With Enhanced Electrical Properties”

**Michael Brown**, Professor & **Suchithranga Perera**, Instructor et al
Chemistry and Biochemistry
“Composition Comprising a Lyophilized Detergent-Solubilized Protein”

**Minying Cai**, Research Professor & **Victor Hruby**, Regents Professor Emeritus
Chemistry and Biochemistry
“Novel Modulators Of Melanocortin Receptors”

**Richard Glass**, Professor Emeritus & **Jeff Pyun**, Professor et al
Chemistry and Biochemistry
“Copolymerization Of Elemental Sulfur To Synthesize High Sulfur Content Polymeric Materials”

**Victor Hruby**, Regents Professor Emeritus et al
Chemistry and Biochemistry
“Melanocortin 1 Receptor Ligands and Methods of Use”
“Compounds Comprising Opioid Receptor Agonist Moiety and NK1 Receptor Antagonist Moiety”

**John C. Jewett**, Associate Professor et al
Chemistry and Biochemistry
“Triazabutadienes As Cleavable Cross-Linkers”

**Douglas Loy**, Professor et al
Chemistry and Biochemistry
“Dihydropyridazine Antioxidant Sunscreens”
“Method Of Formation Of A Robust Network Of Foam Through Diels-Alder Reaction”

**Eugene A. Mash, Jr.**, Professor et al
Chemistry and Biochemistry
“Method and Compositions for Orally Administered Contrast Agents for MR Imaging”

**Jon Njardarson**, Professor et al
Chemistry and Biochemistry
“Neuroprotective Compounds and Methods of Use”

**Jeanne Pemberton**, Professor & **Robin Polt**, Professor et al
Chemistry and Biochemistry
“Carbohydrate-Based Surfactants”

**Robin Polt**, Professor et al
Chemistry and Biochemistry
“ANG(1-7) Derivative Oligopeptides And Methods For Using And Producing The Same”

**Jerome Moloney**, Professor et al
Mathematics
“Patterned Metallization For Hybrid Metal-Semiconductor Mirror Of High Reflectivity”

**Charles A. Stafford**, Professor et al
Physics
“Scanning Tunneling Thermometer”

**Vishnu Reddy**, Professor et al
Planetary Sciences/Lunar and Planetary Laboratory
Galileo Circle Awards
The Galileo Circle is a society of individuals who support excellence in the sciences at the University of Arizona. The Galileo Circle Awards, established through the generosity of Galileo Circle members, recognize outstanding accomplishments of faculty and staff.

Galileo Circle Fellows
Galileo Circle Fellows are the college’s most distinguished faculty. They have a deep understanding of a broad range of science, a willingness to think in a truly interdisciplinary way, and an ability to inspire colleagues and students alike.

Stephen Kobourov
Professor, Computer Science
Galileo Circle Fellow

Galileo Circle Copernicus Awards
The Copernicus Award recognizes the extraordinary accomplishments of non-tenure eligible faculty and staff who significantly advance the mission of their department and the knowledge base of their discipline.

Donna Krawczyk
Senior Lecturer, Mathematics
Galileo Circle Copernicus Award

Galileo Circle Curie Awards
The Curie Award recognizes the “rising-stars” among the department’s junior tenure-track faculty, whose innovative work is not only advancing science, but also adding to diversity within the scientific community.

Katherine Isaacs
Assistant Professor, Computer Science
Galileo Circle Curie Award

Elisabeth Krause
Associate Professor, Astronomy and Physics
Galileo Circle Curie Award

The Galileo Circle
This event is partially underwritten by a generous contribution from the Galileo Circle, a society of individuals who support excellence in the sciences at the University of Arizona.
Teaching and Advising Awards

Alex Burant
Assistant Professor of Practice, Physics
Distinguished Early-Career Teaching Award

Saumya Debray
Professor, Computer Science
Distinguished Career Teaching Award

Nicholas Ercolani
Professor, Mathematics
Distinguished Student Mentoring Award

Ashley Jordan
Associate Professor of Practice, Psychology
Distinguished Achievement in Science Education

Laurie Varecka
Assistant Director of the Math Center, Mathematics
Distinguished Advising Award

Ted Weinert
Professor, Molecular and Cellular Biology
Distinguished Career Teaching Award

Dean’s Education and Innovation Award
This award is made possible by the Arthur L. and Lee G. Herbst Endowment for Innovation and the Dean’s Innovation and Education Fund. This funding award encourages the contributions of the College of Science faculty (individual or group) by providing additional financial support in advancing their research programs as well as creating opportunities for undergraduate students to gain research experience. Awardee selection is based on projects involving one or more undergraduate student(s) in an innovative research experience that enhances both the students’ education and contribute directly to the faculty member’s research plan.

Martha Bhattacharya
Assistant Professor, Neuroscience
Dean’s Education and Innovation Award

Alyssa Croft
Assistant Professor, Psychology
Dean’s Education and Innovation Award

Pascale Charest
Associate Professor, Molecular and Cellular Biology
Dean’s Education and Innovation Award

Erika Hamden
Assistant Professor & Assistant Astronomer, Astronomy/Steward Observatory
Dean’s Education and Innovation Award

Chris Impey
Distinguished Professor & Astronomer, Astronomy/Steward Observatory
Dean’s Education and Innovation Award

Departmental Awards

Bryden Cais
Associate Professor, Mathematics
William Y. Vélez Outstanding Faculty Advisor Award

Kaitlin Kratter
Associate Professor & Associate Astronomer, Astronomy/Steward Observatory
Blitzer Award
National and International Honors and Awards

Mark Barton
Professor, Geosciences
Prazen Living Legend of Mining, National Mining Hall of Fame and Museum

Ali Behrangi
Professor, Hydrology and Atmospheric Sciences
Robert H. Goddard Award, NASA GSFC

Judith Bronstein
Distinguished Professor, Ecology and Evolutionary Biology
Research Fellow, Wissenschaftskolleg zu Berlin Institute for Advanced Study

Barbara Carrapa
Professor and Department Head, Geosciences
William R. Dickinson Medal Award, Society for Sedimentary Geology

Chi-kwan Chan
Associate Research Professor, Steward Observatory
2021 EHT Early Career Award, Event Horizon Telescope

Marta Civil
Professor, Mathematics
Lifetime Achievement Award, National Council of Teachers of Mathematics (NCTM)

Andrew Cohen
Distinguished Professor, Geosciences
Geological Society of America, Continental Scientific Drilling Division Distinguished Lecturer

Laura Condon
Associate Professor, Hydrology and Atmospheric Sciences
Hydrology Section Early Career Award, American Geophysical Union

Jim Cushing
Professor Emeritus, Mathematics
Bernd Aulbach Prize, International Society of Difference Equations

Xiquan Dong
Professor, Hydrology and Atmospheric Sciences
AAS Outstanding Editor Award, Advanced Atmospheric Sciences, China

Alyson Ford
Assistant Research Professor, Steward Observatory

Jeff Greenberg
Professor, Psychology
Distinguished Career Contribution Award, International Society for the Science of Existential Psychology

Hoshin Gupta
Professor, Hydrology and Atmospheric Sciences
International Excellence Research Fellowship of the Karlsruhe Institute of Technology, Karlsruhe, Germany, Alexander von Humboldt Foundation, and the Karlsruhe Institute of Technology

Christopher Hamilton
Associate Professor, Planetary Sciences/Lunar and Planetary Laboratory
Silver Telly Award, Telly Awards

Christopher Harig
Assistant Professor, Geosciences
2021 Faculty Early Career Development (CAREER) Program, National Science Foundation

John Hildebrand
Regents Professor Emeritus, Neuroscience
Elected to Fellowship, The World Academy of Sciences (TWAS)
Deb Hughes Hallett  
Professor, Mathematics  
*Award for Impact on the Teaching and Learning of Mathematics, American Mathematical Society (AMS)*

Mauricio Ibáñez-Mejía  
Assistant Professor, Geosciences  
*CAREER Award, National Science Foundation*

Buell Jannuzi  
Professor and Department Head/Director, Astronomy/Steward Observatory  

Kwang-Sung Jun  
Assistant Professor, Computer Science  
*2021 NeurIPS Outstanding Reviewer Award, Neural Information Processing Systems*  
*Top reviewer for AISTATS’22, International Conference on Artificial Intelligence and Statistics*

Christoph Keller  
Associate Professor, Mathematics  
*2021, A Best Paper Prize, Journal of Physics*

Elisabeth Krause  
Associate Professor, Astronomy and Physics  
*Early Career Award, Universities Research Association*  
*2021 Kavli Frontiers Fellow, National Academy of Sciences*

Dante Lauretta  
Regents Professor, Planetary Sciences/Lunar and Planetary Laboratory  
*John L. “Jack” Swigert Jr. Award for Space Exploration, Space Foundation*  
*MOCA Tucson Local Genius Award, MOCA Tucson*

Michael Lesser  
Astronomer, Steward Observatory  
*Joseph Weber Award for Astronomical Instrumentation, American Astronomical Society*

Ananya Mallik  
Assistant Professor Geosciences, The RealReal Inc Endowed Chair of Gem Science  
*Distinguished Lecturer, Mineralogical Society of America*

Dan Marrone  
Professor & Astronomer, Astronomy/Steward Observatory  

Michael Marty  
Associate Professor, Chemistry and Biochemistry  
*Arthur F. Findeis Award for Achievements by a Young Analytical Scientist, American Chemical Society*

Jennifer McIntosh  
Professor, Hydrology and Atmospheric Sciences  
*Fred L. and Frances J. Oliver Lectureship in Texas Hydrology and Water Resources, Jackson School of Geosciences, University of Texas-Austin*

Cherry Murray  
Professor, Physics  
*Ellis Island Medal of Honor, Ellis Island Honor Society*

Vasileios Paschalidis  
Assistant Professor & Assistant Astronomer, Astronomy/Steward Observatory  
*CAREER Award, National Science Foundation*  
*FINNEST Award, NASA*

Ilaria Pascucci  
Professor, Planetary Sciences/Lunar and Planetary Laboratory  
*Fellow, American Astronomical Society*

Elena Plante  
Professor, Speech, Language, and Hearing Sciences  
*Honorary Doctorate, University of Bergen*
Robin Polt  
Professor, Chemistry and Biochemistry  
Senior Inventor, Class of 2022, National Academy of Inventors

Xubin Zeng  
Professor, Hydrology and Atmospheric Sciences  
Fellow, American Geophysical Union  
Distinguished Visiting Scientist, NASA/Caltech JPL

Jeff Pyun  
Professor, Chemistry and Biochemistry  
Fellow, Royal Society of Chemistry

Chicheng Zhang  
Assistant Professor, Computer Science  
Outstanding Paper Runner Up Award, International Conference on Machine Learning

Johann Rafelski  
Professor, Physics  
Foreign Member, Academia Europaea  
Foreign Member, Hungarian Academy of Sciences

Hao (Helen) Zhang  
Professor, Mathematics  
Fellow member, Mu Sigma Rho Chapter (at the University of Arizona)

Joellen Russell  
Professor, Geosciences  
Thomas R. Brown Distinguished Chair in Integrative Science (extended), Thomas R. Brown Foundation

Lucy Ziurys  
Regents Professor, Chemistry and Biochemistry & Astronomy  

Kaustubh Thirumalai  
Assistant Professor, Geosciences  
Nanne Weber Early Career Award, American Geophysical Union

Jessica Tierney  
Associate Professor, Geosciences  
Alan T. Waterman Award, National Science Foundation  
Thomas R. Brown Distinguished Chair in Integrative Science, Thomas R. Brown Foundation

Remo Tilanus  
Research Professor, Steward Observatory  

Carlos Vargas  
Assistant Professor & Assistant Astronomer, Astronomy/Steward Observatory  
GMiS Luminary Honoree, Great Minds in Stem
New College of Science Faculty

Kathrine Alexander
Assistant Professor, Astronomy/Steward Observatory
Ph.D., Astronomy and Astrophysics, Harvard University

Christy Ball
Associate Professor of Practice, Psychology
M.Ed. in Counseling, Northern Arizona University

Eduardo Blanco
Associate Professor, Computer Science
Ph.D., University of Texas

Louis Cheney
Instructor, Mathematics
MA in Teaching Mathematics, NAU

Daniella DellaGiustina
Assistant Professor, Planetary Sciences
Ph.D., University of Arizona

Steve Ertel
Associate Astronomer, Steward Observatory
Ph.D. in Astrophysics, University of Kiel, Germany

Jon Fortney
Instructor, Mathematics
Ph.D. in Mathematics, ASU

Nikolay Golubev
Assistant Professor, Physics
Ph.D., Heidelberg University, Germany

Karen Guilmette
Associate Clinical Professor, Speech, Language, and Hearing Sciences
MS, University of Arizona

Deborah Holt
Instructor, Mathematics
MS Mathematics, George Mason University

Advait Jukar
Lecturer, Geosciences
Ph.D. George Mason University

Joan Kim
Instructor, Mathematics
MS Mathematics, California State University, Channel Islands

Samyukta Krishnamurthy
Lecturer, Physics
Ph.D. in Physics, University of Massachusetts, Amherst

Jacob Martinez
Assistant Clinical Professor, Speech, Language, and Hearing Sciences
MA, New Mexico State University

Andrew Monson
Associate Astronomer, Astronomy/Steward Observatory
Ph.D., University of Wyoming

Janalee O’bagy
Assistant Professor of Practice, Computer Science
Ph.D., University of Arizona

Adriana Picoral
Assistant Professor of Practice, Computer Science
Ph.D., University of Arizona

Sukrit Ranjan
Assistant Professor, Planetary Sciences
Ph.D., Harvard University

Hervé Rezeau
Assistant Professor, Geosciences
Ph.D., University of Geneva – Switzerland

Tyler Robinson
Associate Professor, Planetary Sciences
Ph.D., University of Washington

Joseph Shields
Director, LBTO and Astronomer, Steward Observatory
Ph.D. in Astronomy, UC Berkeley

Michael Taylor
Assistant Professor, Chemistry and Biochemistry

Marielle Wälti
Assistant Professor, Chemistry and Biochemistry
Ph.D., ETH Zürich, Switzerland

Amy Wheeler
Assistant Clinical Professor, Speech, Language, and Hearing Sciences
AuD, Utah State University
## College of Science Promotion, Tenure, and Track-Transfer

<table>
<thead>
<tr>
<th>Name</th>
<th>Position and Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Margaret Evans</td>
<td>Promoted to Associate Professor with Tenure, Laboratory of Tree-Ring Research</td>
</tr>
<tr>
<td>Jessica Andrews-Hanna</td>
<td>Promoted to Associate Professor with Tenure, Psychology</td>
</tr>
<tr>
<td>Fabian Fernandez</td>
<td>Promoted to Associate Professor with Tenure, Psychology</td>
</tr>
<tr>
<td>Christoph Keller</td>
<td>Promoted to Associate Professor with Tenure, Mathematics</td>
</tr>
<tr>
<td>Robert Kennicutt</td>
<td>Appointed Laureate Professor, Steward Observatory</td>
</tr>
<tr>
<td>Eric Kiser</td>
<td>Promoted to Associate Professor with Tenure, Geosciences</td>
</tr>
<tr>
<td>Elisabeth Krause</td>
<td>Promoted to Associate Professor with Tenure, Astronomy &amp; Physics</td>
</tr>
<tr>
<td>Taryn Laird</td>
<td>Transferred to Lecturer, Mathematics</td>
</tr>
<tr>
<td>Michael Lesser</td>
<td>Transferred to Astronomer, Steward Observatory</td>
</tr>
<tr>
<td>Kathleen Cazzato</td>
<td>Promoted to Associate Clinical Professor, Speech, Language, and Hearing Sciences</td>
</tr>
<tr>
<td>Ying-Hui Chou</td>
<td>Promoted to Associate Professor with Tenure, Psychology</td>
</tr>
<tr>
<td>David Claveau</td>
<td>Transferred to Associate Professor of Practice, Computer Science</td>
</tr>
<tr>
<td>Laura Condon</td>
<td>Promoted to Associate Professor with Tenure, Hydrology and Atmospheric Sciences</td>
</tr>
<tr>
<td>Solange Duhamel</td>
<td>Awarded Tenure, Associate Professor, Molecular and Cellular Biology</td>
</tr>
<tr>
<td>Tim Eifler</td>
<td>Promoted to Associate Professor with Tenure and Associate Astronomer, Astronomy/ Steward Observatory</td>
</tr>
<tr>
<td>Lisa Elfring</td>
<td>Promoted to Specialist, Molecular and Cellular Biology</td>
</tr>
<tr>
<td>Sarah Andrews</td>
<td>Transferred to Lecturer, Mathematics</td>
</tr>
<tr>
<td>Eric Anson</td>
<td>Transferred to Associate Professor of Practice, Computer Science</td>
</tr>
<tr>
<td>Eyad Atallah</td>
<td>Transferred to Assistant Professor of Practice, Hydrology and Atmospheric Sciences</td>
</tr>
<tr>
<td>Alex Burant</td>
<td>Transferred to Assistant Professor of Practice, Physics</td>
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<tr>
<td>Lisa Elfring</td>
<td>Promoted to Specialist, Molecular and Cellular Biology</td>
</tr>
</tbody>
</table>
Julie Miller
Promoted to Associate Professor with Tenure, Neuroscience and Speech, Language, and Hearing Sciences

Ilaria Pascucci
Promoted to Professor, Planetary Sciences/Lunar and Planetary Laboratory

Vishnu Reddy
Promoted to Professor, Planetary Sciences/Lunar and Planetary Laboratory

John Ruiz
Promoted to Professor, Psychology

Ravi Sethi
Appointed Laureate Professor, Computer Science

Irene Shivaei
Promoted to Assistant Research Professor, Steward Observatory

Jessica Tierney
Promoted to Professor, Geosciences

Elisa Tomat
Promoted to Professor, Chemistry and Biochemistry

Hang Xue
Promoted to Associate Professor with Tenure, Mathematics

Jianjun Yin
Promoted to Professor, Geosciences

Yuzuru Yoshii
Appointed Laureate Professor, Astronomy
Retiring College of Science Faculty

**Neal R. Armstrong**  
Regents Professor Emeritus, Chemistry and Biochemistry

**Philip Pinto**  
Associate Professor, Astronomy & Associate Astronomer, Steward Observatory

**Carol L. Dieckmann**  
Professor Emerita, Molecular and Cellular Biology

**Michael J. Sanderson**  
Professor Emeritus, Ecology and Evolutionary Biology

**Nicholas “Nick” Ercolani**  
Professor, Mathematics

**Glenn H. Schneider**  
Research Professor Emeritus and Astronomer, Astronomy/Steward Observatory

**Aurelio J. Figueredo**  
Professor Emeritus, Psychology

**Richard T. Snodgrass**  
Professor Emeritus, Computer Science

**John H. Hartman**  
Associate Professor Emeritus, Computer Science

**Ramzi Touchan**  
Research Professor Emeritus, Laboratory of Tree-Ring Research

**John G. Hildebrand**  
Regents Professor Emeritus, Neuroscience

**David L. Venable**  
Professor Emeritus, Ecology and Evolutionary Biology

**Robert A. Indik**  
Associate Professor Emeritus, Mathematics

**Neal R. Armstrong**  
Regents Professor Emeritus, Chemistry and Biochemistry

**Shawn S. Jackson**  
Senior Lecturer Emeritus, Physics

**Carol L. Dieckmann**  
Professor Emerita, Molecular and Cellular Biology

**Richard T. Snodgrass**  
Professor Emeritus, Computer Science

**Susan K. Jorstad**  
Assistant Professor of Practice, Molecular and Cellular Biology

**Ramzi Touchan**  
Research Professor Emeritus, Laboratory of Tree-Ring Research

**Anthony John T. Jull**  
Professor Emeritus, Geosciences

**David L. Venable**  
Professor Emeritus, Ecology and Evolutionary Biology

**Mary R. Lawler**  
Instructor, Mathematics

**Edward Olszewski**  
Professor Emeritus, Astronomy/Steward Observatory

**Don McCarthy**  
Distinguished Outreach Professor and Astronomer, Astronomy/Steward Observatory

**Russell K. Monson**  
Research Professor, Ecology and Evolutionary Biology