



THE UNIVERSITY
OF ARIZONA



COLLEGE OF SCIENCE

FACULTY RECEPTION

2022



September 20, 2022
Health Sciences Innovation Building



2022 College of Science Faculty Reception

September 20, 2022
Health Sciences Innovation Building
Program begins at 6pm

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, Laboratory 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 Receiver”

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
“Laser Beam for External Position Control and Traffic Management of On-Orbit Satellites”

College of Science Honors and Awards

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

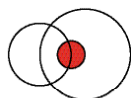
The Curie Award recognizes the “rising-stars” among the department's junior tenure-track faculty, whose innovative work is not only advancing science, but also adding to diversity within the scientific community.

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 Ecolani

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

Jennifer Wolfe

Associate Professor, Mathematics
Innovation in 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 Royal Astronomical Society Group Award, The Royal Astronomical Society
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

2021 Royal Astronomical Society Group Award, The Royal Astronomical Society

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 Ibanez-Mejia

Assistant Professor, Geosciences

CAREER Award, National Science Foundation

Buell Jannuzi

Professor and Department Head/Director,
Astronomy/Steward Observatory

*2021 Royal Astronomical Society Group Award,
The Royal Astronomical Society*

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

*2021 Royal Astronomical Society Group Award,
The Royal Astronomical Society*

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

National and International Honors and Awards continued

Robin Polt

Professor, Chemistry and Biochemistry
Senior Inventor, Class of 2022, National Academy of Inventors

Jeff Pyun

Professor, Chemistry and Biochemistry
Fellow, Royal Society of Chemistry

Johann Rafelski

Professor, Physics
*Foreign Member, Academia Europaea
Foreign Member, Hungarian Academy of Sciences*

Joellen Russell

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

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
2021 Royal Astronomical Society Group Award, The Royal Astronomical Society

Carlos Vargas

Assistant Professor & Assistant Astronomer,
Astronomy/Steward Observatory
GMIS Luminary Honoree, Great Minds in Stem

Xubin Zeng

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

Chicheng Zhang

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

Hao (Helen) Zhang

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

Lucy Ziurys

Regents Professor, Chemistry and Biochemistry & Astronomy
2021 Royal Astronomical Society Group Award, The Royal Astronomical Society

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

Sarah Andrews

Transferred to Lecturer, Mathematics

Jessica Andrews-Hanna

Promoted to Associate Professor with Tenure, Psychology

Eric Anson

Transferred to Associate Professor of Practice, Computer Science

Eyad Atallah

Transferred to Assistant Professor of Practice, Hydrology and Atmospheric Sciences

Alex Burant

Transferred to Assistant Professor of Practice, Physics

Kathleen Cazzato

Promoted to Associate Clinical Professor, Speech, Language, and Hearing Sciences

Ying-Hui Chou

Promoted to Associate Professor with Tenure, Psychology

David Claveau

Transferred to Associate Professor of Practice, Computer Science

Laura Condon

Promoted to Associate Professor with Tenure, Hydrology and Atmospheric Sciences

Solange Duhamel

Awarded Tenure, Associate Professor, Molecular and Cellular Biology

Tim Eifler

Promoted to Associate Professor with Tenure and Associate Astronomer, Astronomy/Steward Observatory

Lisa Elfring

Promoted to Specialist, Molecular and Cellular Biology

Margaret Evans

Promoted to Associate Professor with Tenure, Laboratory of Tree-Ring Research

Fabian Fernandez

Promoted to Associate Professor with Tenure, Psychology

Christoph Keller

Promoted to Associate Professor with Tenure, Mathematics

Robert Kennicutt

Appointed Laureate Professor, Steward Observatory

Eric Kiser

Promoted to Associate Professor with Tenure, Geosciences

Elisabeth Krause

Promoted to Associate Professor with Tenure, Astronomy & Physics

Taryn Laird

Transferred to Lecturer, Mathematics

Michael Lesser

Transferred to Astronomer, Steward Observatory

Russell Lewis

Promoted to Senior Lecturer, Computer Science

Jared Males

Promoted to Associate Astronomer with Continuing Status, Steward Observatory

Lester McCann

Promoted to Professor of Practice, Computer Science

Deanna McDonald

Transferred to Lecturer, Mathematics

Luke McGuire

Promoted to Associate Professor with Tenure, Geosciences

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

Carol L. Dieckmann

Professor Emerita, Molecular and Cellular Biology

Nicholas “Nick” Ercolani

Professor, Mathematics

Aurelio J. Figueredo

Professor Emeritus, Psychology

John H. Hartman

Associate Professor Emeritus, Computer Science

John G. Hildebrand

Regents Professor Emeritus, Neuroscience

Robert A. Indik

Associate Professor Emeritus, Mathematics

Shawn S. Jackson

Senior Lecturer Emeritus, Physics

Susan K. Jorstad

Assistant Professor of Practice, Molecular and Cellular Biology

Anthony John T. Jull

Professor Emeritus, Geosciences

Mary R. Lawler

Instructor, Mathematics

Don McCarthy

Distinguished Outreach Professor and Astronomer, Astronomy/Steward Observatory

Russell K. Monson

Research Professor, Ecology and Evolutionary Biology

Edward Olszewski

Professor Emeritus, Astronomy/Steward Observatory

Philip Pinto

Associate Professor, Astronomy & Associate Astronomer, Steward Observatory

Michael J. Sanderson

Professor Emeritus, Ecology and Evolutionary Biology

Glenn H. Schneider

Research Professor Emeritus and Astronomer, Astronomy/Steward Observatory

Richard T. Snodgrass

Professor Emeritus, Computer Science

Ramzi Touchan

Research Professor Emeritus, Laboratory of Tree-Ring Research

David L. Venable

Professor Emeritus, Ecology and Evolutionary Biology

College of Science

Carmala N. Garzione

Dean

Rebecca L. Gomez

Associate Dean, Student Academic Success

Jeremiah D. Hackett

Associate Dean, Graduate and Postdoctoral Affairs

Brad H. Story

Associate Dean, Faculty Affairs

DEPARTMENT HEADS & DIRECTORS

Philip A. Pearthree

Arizona Geological Survey

Buell T. Jannuzi

Astronomy/Steward Observatory

Craig A. Aspinwall

Chemistry and Biochemistry

Christian S. Collberg

Computer Science, Interim Head

Michael Worobey

Ecology and Evolutionary Biology

Barbara Carrapa

Geosciences

Thomas Meixner

Hydrology and Atmospheric Sciences

David C. Frank

Laboratory of Tree-Ring Research

Douglas L. Ulmer

Mathematics

Joyce A. Schroeder

Molecular and Cellular Biology

Konrad E. Zinsmaier

Neuroscience

Sumitendra Mazumdar

Physics

Mark S. Marley

Planetary Sciences/Lunar and Planetary Laboratory

Lee Ryan

Psychology

Mary Alt

Speech, Language, and Hearing Sciences

SCHOOLS

Barbara Carrapa

School of Earth and Environmental Sciences

Douglas L. Ulmer

School of Mathematical Sciences

Konrad E. Zinsmaier

School of Mind, Brain and Behavior

PROGRAMS

Mary A. Peterson

Cognitive Science



THE UNIVERSITY OF ARIZONA
College of Science

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