UNIVERSITY OF OREGON
Department of Chemistry and Biochemistry

Graduation Celebration 2021
Chemistry and Biochemistry
Graduation Celebration

Friday, June 11, 2021

Hosted by
Professor Mark Lonergan, Department Head
Dr. Michael Koscho, Assistant Department Head | Faculty Advisor

UNIVERSITY HONORS

summa cum laude
Joann J. Jarvis
Nicole E. Wales
Gus D. Warren
Daria R. Wonderlick

magna cum laude
Parker T. Morris

cum laude
Shane A. Feinstein
Alexandra E. Overland

Phi Beta Kappa
Shane A. Feinstein
Emmalyn P. Leonard
Parker T. Morris
Alexandra E. Overland
Michael T. Shaw
Noah W. Smith
Ian S. Torrence
Nicole E. Wales
Gus D. Warren
Daria R. Wonderlick

Oregon Six
Daria R. Wonderlick
2021 UNDERGRADUATE AWARDS IN CHEMISTRY

American Institute of Chemists Foundation Award - Outstanding Senior
Nicole E. Wales

LeRoy H. Klemm Award for Excellence in Undergraduate Chemical Research
Parker T. Morris and Min Chieh Yang

Richard M. Noyes Physical Chemistry Achievement Award
Daria R. Wonderlick

Warner Peticolas Award for Excellence in Undergraduate Chemical Research in Physical Chemistry
Brandon C. Rasmussen

American Chemical Society Analytical Chemistry Award
Joann J. Jarvis

American Chemical Society Inorganic Chemistry Award
Alexandra E. Overland

American Chemical Society Organic Chemistry Award
Daryl J. Martin

American Chemical Society Physical Chemistry Award
Nicole E. Wales

Biochemistry Achievement Award
Gus D. Warren

Chemical Biology Achievement Award
Michael T. Shaw

Inorganic Chemistry Achievement Award
Alexandra E. Overland

Organic Chemistry Achievement Award
Eric A. Krall, Joann J. Jarvis, and Ian S. Torrence
DEGREE CANDIDATES

Biochemistry Baccalaureate Candidates

Shane A. Feinstein
Benjamin J. Fish
Jordan S. Kim*
Emmalyn P. Leonard*
Maya A. Pande*
Hossien M. Rajabzadeh
Isabel M. Richter
Aida M. Santoro

Michael T. Shaw*
Noah W. Smith*
Derek J. Statler
Ian S. Torrence*
Gus D. Warren*
Daria R. Wonderlick*
Min Chieh Yang

Chemistry Baccalaureate Candidates

Tyler J. Carlin
Mandy S. Chan
Lei Chen
Natalie R. Dunn*
Natalie R. Fontillas*
Taylor R. Frisch
Bria V. Gray
Kaylynn M. Hixenbaugh
Joann J. Jarvis
Seth G Kloster

Eric A. Krall
Sean E. Manji
Daryl J. Martin
Parker T. Morris*
Darby M. O’Connor
Alexandra E. Overland*
Brandon C. Rasmussen*
Margaret (Megan) Sciascia
Courtney A. Thorn
Nicole E. Wales*

* Department Honors
Master of Science Candidates

Kyra L. Brakefield | Andrew S. Holston
Liza L. Briody-Pavlik | Andrew N. Le
Nicholas R. D’Antona | Lauren Lehmann
Joshua A. Davis | Ashley N. Mapile
Kevin Fabrizio | Jacob T. Mayhugh
Marc J. Foster | Augie M. Witkowski
Marium Haq | Luca J. Zocchi
Hannah E. Hashimoto

Advanced Materials Analysis and Characterization Program

Matt W. Abbitt | LAM Research, Tualatin, OR
Patrick O. Berry | LAM Research, Tualatin, OR
Adam C. Clairmont | CAMCOR, Eugene, OR
Chase N. Cotton | SparkleCut, San Diego, CA
Mark D. Hamel | LAM Research, Tualatin, OR
Christopher A. Harb | LAM Research, Tualatin, OR
Sean F. Harris | SAMTEC, Colorado Springs, CO
Steven G. Parker | Tokyo Electron, Hillsboro, OR
Colin D. Pilcher | Tokyo Electron, Hillsboro, OR
Jada M. Ward | Panasonic, Reno, NV
Bailey A. Wyatt | LAM Research, Tualatin, OR

Knight Campus Internship Program

Photovoltaic and Semiconductor Device Processing

Jessica Chung | Thermo Fisher Scientific, Hillsboro, OR
Rachael Gitnes | Nanohmics, Austin, TX
Taryn Kam | Formfactor, Beaverton, OR
Angus Williams | MKS Instruments, Beaverton, OR
Yao Qian | Cree / Wolfspeed, Durham, NC
Molecular Sensors

Craig Annsa | Lonza, Bend, OR
Sarah Bunger | Lonza, Bend, OR
Zachary Hoffman | Lonza, Bend, OR
Alysse N. Kerr | Thermo Fisher Scientific, Eugene, OR
Andy Mendoza | OHSU CEDAR, Portland, OR
Tiphanie Pfefferle | Cascade Chemistry, Eugene, OR
Sara Staudhammer | Thermo Fisher Scientific, Eugene, OR
Morgan R. Stewart | Thermo Fisher Scientific, Hillsboro, OR

Polymer Science

Madison Langston Ames | W.R. Grace, Albany, OR
Maria Anderson | Lonza, Bend, OR
Diego Aubert-Vasquez | Los Alamos National Lab, Los Alamos, NM
Blake Bordokas | Serán Bioscience, Bend, OR
Ashleigh Meyjin Chov | Los Alamos National Lab, Los Alamos, NM
Michael DeSimone | The Willamette Valley Company, Eugene, OR
Monika K. Hoke | Purple Innovations, Inc., Lehi, UT
Sophia Michelle Kea | W.R. Grace, Albany, OR
Emma Lankford | The Willamette Valley Company, Eugene, OR
Meredith Melendez | Thermo Fisher Scientific, Hillsboro, OR
Haleigh E. Patten-Trujillo | W.R. Grace, Albany, OR
David Perez Martinez | W.R. Grace, Alabany, OR
Nathan Spurgin | Thermo Fisher Scientific, Bend, OR
Kupaikeaiaio Thomas | Thermo Fisher Scientific, Hillsboro, OR
Steven Young | Los Alamos National Lab, Los Alamos, NM
Doctoral Candidates

Rebecca M. Altman
Water Combination Bands and Mixed Systems at the Oil/Water Interface
Advisor: Professor Geraldine Richmond

Jeremy P. Bard
The Fundamental Development and Initial Applications of the 2-μ5-Phosphaquinolin-2-one Moiety
Advisors: Professor Michael Haley and Professor Darren Johnson

Joshua E. Barker
Diareno Fusion to Modify Antiaromaticity and Diradical Character in s-Indacenes and Dicyclopenta[b,g]naphthalenes
Advisor: Professor Michael Haley

Eric R. Beyerle
Extensions of the Langevin Equation for Protein Dynamics for Modelling Equilibrium Binding Fluctuations in Proteins
Advisor: Professor Marina Guenza

Sarah G. Bolton
Development of Tools for the Study of Biological Sulfur
Advisor: Professor Michael Pluth

Marisa A. Choffel
Design, Formation, and Electrical Properties of Bi-Se Containing Heterostructures
Advisor: Professor David Johnson

Drake Andrew Donovan
A New Mechanism for Genomic Nucleosome Positioning by Native ISWI and Engineered CHD Chromatin Remodeling Proteins is Driven by Sequence-Specific DNA Binding
Advisor: Professor Eric Selker

Hazel A. Fargher
Physical Organic Studies in the Design and Application of Supramolecular Anion Hosts
Advisors: Professor Darren Johnson and Professor Michael Haley

Jessica L. Fehrs
Mechanisms for Stability, Degradation, and Regeneration of Ni (Oxy)Hydroxide for Oxygen Evolution Electrocatalysis and Photocatalysis
Advisor: Professor Shannon Boettcher
Renae N. Gannon
Investigation of Interfaces and Formation Mechanisms in Thin Film Materials and Van der Waals Heterostructures Via Electron Microscopy Techniques
Advisor: Professor David Johnson

Jordan D. Levine
Fabrication, Characterization, and Industrial Viability of Sustainable Thin Films and Coatings Derived From Aluminum Based Nanoclusters
Advisor: Professor Darren Johnson

Jenna L. Mancuso
Density Functional Theory Derived Design Principles for Metal-organic Frameworks: Gas Adsorption, Catalysis, and Conductivity
Advisor: Professor Christopher Hendon

Ruth L. Maust
Leveraging Macroyclic Architectures in the Development of Polymeric Carbon Nanomaterials
Advisor: Professor Ramesh Jasti

Austin M. Mroz
Revisiting Chemical System Size Using STREUSEL (Surface Topology Recovery Using Sampling of the Electric field): the Role of Size in Atomic, Molecular, and Solid-State Properties
Advisor: Professor Christopher Hendon

Nicole M. Paterson
Adaptive Evolution in Paralogous Immune Receptor Families
Advisor: Professor Matthew Barber

Gauri Ramasubramanian
Development and Evaluation of a Professional Training Module for Chemistry Graduate Teaching Assistants
Advisor: Professor Tom Greenbowe

Trevor A. Shear
Pnictogen-Assisted Self-Assembly of Organic Macrocycles, Cages, and Cyclophanes
Advisor: Professor Darren Johnson

Morgan L. Sosa
Modeling the Evolving Mixture of H- and J-Aggregates During Organic Film Formation
Advisor: Professor Cathy Wong