Organ Prelude

Fantasie Choral No. 1 in D-flat (1931)
Percy Whitlock

Berceuse à la mémoire de Louis Vierne
Pierre Cochereau

Chorale Preludes Op. 67 No. 15
Jauchz', Erd', und Himmel, juble!
Max Reger

Patrick W. Kreeger,
Organist

Processional

Gran Chœr Triomphale, Op. 47 No. 2
Alexandre Guilmant

Please rise when the faculty and graduating students enter the hall.

Recognition of Student Prize Recipients

Marsten Anderson Prize
ashton lazarus

Francis J. Anscombe Award
zhao ren

Henry Prentiss Becton Prize
alp kucukelbir

Frederick W. Beinecke Prize
andrew offenburger

Frances Blanshard Fellowship Prize
tatsiana zhurauliova

Harding Bliss Prize
leanne gilbertson

Sylvia Ardyn Boone Prize
anne kesson

Anthony DiGuida Delta Mu Research Prize
leonie rose bovino

George Washington Egleston Historical Prize
brian jordan

English Department Dissertation Prize
andrew kraebel

Estwing Hammer Prize
rose anderson

colton lynner

Miguel Ferreyros Memorial Award
amy mount

Harry Burr Ferris Prize
nina brahme

ryan christensen

andrea stavoe

Theron Rockwell Field Prize
andrew kraebel

lucy kaufman

William Ebenezer Ford Prize
peter douglas

Hans Gatzke Prize
matthew lockwood

gene tempest

James B. Grossman Dissertation Prize
kyungmi kim

William J. Horwitz Prize
tasha dobbin-bennett

Academic Excellence in International Relations
carolyn hoyle

Mary Ellen Jones Prize
david taylor

Annie Le Fellowship
ashley schloss

deborah ayeni

Elias Loomis Prize
caroline eakin

shineng hu

John Spangler Nicholas Prize
alex dornburg

devin noblin

jamie schwendinger-schreck

jill goldstein

jonathan larochelle

Order of Exercises

commencement diploma ceremony
Graduate School of Arts and Sciences
Monday, May 19, 2014
Order of Exercises

COMMENCEMENT DIPLOMA CEREMONY
Graduate School of Arts and Sciences
Monday, May 19, 2014

Organ Prelude
Fantasie Choral No. 1 in D-flat (1931)
Percy Whitlock

Berceuse à la mémoire de Louis Vierne
Pierre Cochereau

Chorale Preludes Op. 67 No. 15
Jauchz’, Erd’, und Himmel, jubel!
Max Reger

Patrick W. Kreeger, Organist

Processional
Gran Chœr Triomphale, Op. 47 No. 2
Alexandre Guilmant

Please rise when the faculty and graduating students enter the hall.

Recognition of Student Prize Recipients

Marsten Anderson Prize
ASHTON LAZARUS

Francis J. Anscombe Award
ZHAO REN

Henry Prentiss Becton Prize
ALP KUCUKELBIR

Frederick W. Beinecke Prize
ANDREW OFFENBURGER

Frances Blanshard Fellowship Prize
TATSIANA ZHURAPOVIA

Harding Bliss Prize
LEANNE GILBERTSON

Sylvia Ardyn Boone Prize
ANNE KESSON
KRISTIN GRAVES OKOLI

Anthony DiGuida Delta Mu Research Prize
LEONIE ROSE BOVINO

George Washington Egleston Historical Prize
BRIAN JORDAN

English Department Dissertation Prize
ANDREW KRAEBEL

Estwing Hammer Prize
ROSE ANDERSON
COLTON LYNNER

Miguel Ferreyros Memorial Award
AMY MOUNT

Harry Burr Ferris Prize
NINA BRAHME
RYAN CHRISTENSEN
ANDREA STAVO

Theron Rockwell Field Prize
ANDREW KRAEBEL
LUCY KAUFMAN

William Ebenezer Ford Prize
PETER DOUGLAS

Hans Gatzke Prize
MATTHEW LOCKWOOD
GENE TEMPEST

James B. Grossman Dissertation Prize
KYUNGMI KIM

William J. Horwitz Prize
TASHA DOBBIN-BENNERT

Academic Excellence in International Relations
CAROLYN HOYLE

Mary Ellen Jones Prize
DAVID TAYLOR

Annie Le Fellowship
ASHLEY SCHLOSS
DEBORAH AYENI

Elias Loomis Prize
CAROLINE EAKIN
SHINENG HU

John Spangler Nicholas Prize
ALEX DORNBURG
DEVIN NOBLIN
JAMIE SCHWENDINGER-SCHRECK
JILL GOLDSTEIN
JONATHAN LAROCHELLE
Philip M. Orville Prize
SIMON DARROCH
GEORGY MANUCHARYAN
Marguerite A. Peyre Prize
ANNABEL KIM
RAISA REXER

John Addison Porter Prize
BRIAN JORDAN

Leonard J. Savage Writing Prize
XIAOFEI WANG

George Gaylord Simpson Prize
STEPHEN CHESTER
RACHEL RACIGOT

Caroline Slayman Prize in Genetics
A. JEREMY WILLSEY
ELIZABETH SCHROEDER

Edwin W. Small Prize
JOSEPH FRONCZAK
ROBIN SCHEFFLER

George Trimis Prize
CHRISTOPHER NIELSON
SETH ZIMMERMAN

Karl K. Turekian Prize
YIGE ZHANG
SHIKMA ZAARUR

Richard Wolfgang Prize
LI FU
DAMIAN HRUSZKEWYCZ
CHRISTINA WOO

Arthur and Mary Wright Prize
JENNIFER LAMBE
TAISU ZHANG

Recognition of Graduating Prize Teaching Fellows
MERIDETH ANN FREY, 2009-2010
ALP KUCUKELBIR, 2013-2014
JENNIFER LYNNE LAMBE, 2011-2012
AARON FRANK MERTZ, 2007-2008
JAN CLAAS VAN TEEVECK, 2011-2012

Recognition of Graduate Mentor Award Recipients
IN THE HUMANITIES
MARY LUI
Professor of American Studies and History

IN THE NATURAL SCIENCES
ERIC DUFRESNE
Associate Professor of Mechanical Engineering & Materials Science, Physics & Cell Biology

IN THE SOCIAL SCIENCES
GREG HUBER
Professor of Political Science

Presentation of Diplomas
PHD, MPHIL, MA, and MS
Dean Thomas Pollard

Recessional
Toccata from Symphony No. 5 in F Minor
Charles-Marie Widor

Academic Procession Marshal
Thomas Pollard, Dean of the Graduate School

Graduate School Marshals
Victoria Blodgett, Assistant Dean and Director, Graduate Career Services
Lisa Brandes, Assistant Dean and Director, Graduate Student Life
Elena Kistentinohe, Director, Graduate Writing Center
Michelle Nearon, Assistant Dean and Director, Office of Diversity and Equal Opportunity
Risa Sodi, Interim Director, Yale Teaching Center
Graduate School Banner Bearers
Andrea Stavoc, Cell Biology
Conor Frailey, Mathematics

PHD Student Marshals
Mary Anne Lewis, French
Erica DeBruin, Political Science
Mengjie Chen, Computational Biology and Bioinformatics

MA Student Marshal
Daniel Tam-Claiborne, Global Affairs

Degree recipients and their families and friends are cordially invited to a reception immediately following Commencement Exercises in the Hall of Graduate Studies courtyard, 320 York Street.
AFRICAN AMERICAN STUDIES

Doctor of Philosophy
Stephanie Laurette Greenlea
Free the Jena Six! Racism and the Circuitry of Black Solidarity in the Digital Age
Sociology

Anna Evangeline Arabindan Kesson
Threads of Empire: The Visual Economy of the Cotton Trade in the Atlantic Ocean World, 1840-1900
History of Art

Ana Maurine Lara
Bodies and Souls: LGBT Citizenship and the Catholic State
Anthropology

Lauren Elizabeth Pearlman
American Studies

Master of Philosophy
Jalylah Burrell
American Studies

Melanie Lee Chambliss
American Studies

Andrew Edmund Dowe
American Studies

Christina Siobhan Wells
Sociology

Master of Arts
Jamicia Lackey

AFRICAN STUDIES

Master of Arts
Helinna Ayalew
Erdong Chen
Lila Ann Millberry Dodge
Denise Leana Lu Lim
Catherine Ann Nelson
Scott Ross
Kevin Patrick Winn

AMERICAN STUDIES

Doctor of Philosophy
Jose Jesse Ramirez
Dreaming with the Negative: Apocalypse, Science Fiction, and American Culture, 1945-2001

Chloë Elizabeth Taft
From Steel to Slots: Landscapes of Economic Change in Postindustrial Bethlehem, PA

Ruth Carbonette Yow
Home Team Colors: Race, Education, and Justice in the Resegregating South, 1964-2013

African American Studies

Master of Philosophy
Sigma Colon
Rebecca Hayes Jacobs
Master of Arts
Devin McGeehan Muchmore
Lauren Tilton

Master of Arts
Lucy Meredith Caplan
Marilyn Flores
Tyler Jackson Rogers

ANTHROPOLOGY

Doctor of Philosophy
Stephen Gregory Benson
Origin and Early Evolutionary History of Primates: Systematics and Paleobiology of Primitive Plesiadapiforms

Christopher Milan
The Initial Period (1800-800 BC) Occupation of the Middle Lurin Valley: A Discussion on the Interactions between Early Civic-Ceremonial Centers on the Central Coast of Peru and Nearby Hamlets

Vikramaditya Thakur
Unsettling Modernity: Resistance and Forced Resettlement Due to Dam in Western India

Master of Philosophy
Aniket Pankaj Aga
Erin Elizabeth Burke
Adrienne Jordan Cohen
Peter Reid Coutros
Hatice Nilay Erten
Sahana Ghosh
Caroline Grace Merrifield
Elizabeth Frances Miles
Gabriela Elisa Morales
Jessica Marie Newman
Daniela Mae Wolin
Andrew Crawford Womack

Master of Arts
Bryan Michael Buckler
Shayna Ariana Liberman
**APPLIED MATHEMATICS**

**Doctor of Philosophy**

Jerrold Isaac Ankenman  
*Geometry and Analysis of Dual Networks on Questionnaires*

Benjamin Stanley Kunsberg  
*A Differential Geometric Approach using Orientation Fields for Shape from Shading*

Matthew Lawlor  
*Tensor Decomposition by Modified BCM Neurons Finds Mixture Means Through Input Triplets*

Roy R. Lederman  
*On the Analytical and Numerical Properties of the Truncated Laplace Transform*

**Master of Philosophy**

Zhu Wang

**APPLIED PHYSICS**

**Doctor of Philosophy**

Andreas Arnold Fragner  
*Circuit Quantum Electrodynamics with Electrons on Helium*

Nitin Kumar Rajan  
*Limit of Detection of Silicon BioFETs*

**Master of Science**

Christopher James Axline  
*Teresa Lynn Brecht  
Kevin Shu-Wei Chou  
Eric Nuokai Jin  
Xin Liang  
Zlatko Kristev Minev  
Anirudh Narla

**ARCHITECTURE**

**Doctor of Philosophy**

Master of Philosophy

Anna Bokov  
Eduardo Vivanco Antolin

**ASTRONOMY**

**Doctor of Philosophy**

Rachel Shuchter Bezanson  
*Ten Billion Years of Growth: Massive Galaxy Evolution from Structures and Dynamics*

Ngoc Nhung Thi Ho  
*Studying the Evolution of the M31 Dwarf Galaxies*

Jedidah Cherie Isler  
*In Like a Lamb, Out Like a Lion: Probing the Disk-Jet Connection in Fermi Gamma-ray Bright Blazars*

**Master of Philosophy**

Fangzhou Jiang  
Master of Science

**CELL BIOLOGY**

**Doctor of Philosophy**

Jonathan P. Belman  
*Sirtuins Modulate TUG Acetylation to Control GLUT4 Vesicle Trafficking through ACBD3: Characterizing a Novel Mechanism to Control Insulin-Mediated Glucose Uptake*

Adriana Blakaj  
*The Role of Fibrocytes and Metallothioneins in Fibroproliferative Disorders*

Nina Nanda Brahme  
*The Biochemical and Functional Significance of Kindlin Interactions with Migfilin and ILK*

Ryan Patrick Christensen  
*A Conserved P13K Pathway Regulates Neurite Outgrowth in Caenorhabditis Elegans*

Yan Gao  
*The Role of Dendritic Cells in T Helper 2 Responses*

Hsueh-Yen Ku  
*Yb and Tudor-SN, Two Tudor Domain-containing Proteins, in the Regulation of the PIWI-piRNA Pathway and Germline Development in Drosophila*

Fei Li  
*Polarized Assembly of Retroviruses in Virolological Synapses and Migrating Lymphocytes*

Andrea Kirsten Horiszny Stavoe  
*Molecular Mechanisms of Presynaptic Assembly in C. Elegans*

Christopher Hermann Westphal  
*The Physiological Function of Synucleins*

**Master of Philosophy**

Brittany Lynn Angarola  
Rui Dong  
Samir Gautam  
Huiyan Jin  
Kathryn Patricia Krueger  
Jordan Myers  
Daniel Kirk Olson  
Brian James Rosenberg  
Rebecca Kiino Swartz  
Molly Miranda Weiner  
Xinming Zhang
CELLULAR & MOLECULAR PHYSIOLOGY

Doctor of Philosophy

Colleen Nicole Period
Inositol 1,4,5 Trisphosphate Receptor-Mediated Calcium Signals in Metabolic Pathways

Grace Eunhea Kim
Molecular Mechanisms Underlying Seizures and Atrial Fibrillation - Electrophysiological Dysfunctions of the Brain and the Heart

Anila Kanchan Madiraju
Molecular Mechanism by which Guanide Compounds Inhibit Hepatic Gluconeogenesis

Rachel Jamison Perry
Molecular Mechanisms of the Transition from Hepatic Insulin Resistance to Type 2 Diabetes

Yanbin Wang
Parallel Pathways for Visual Processing in the Mouse Retina

Master of Philosophy

Brandon Mark Gassaway
Anila Madiraju
Jingshing Wu

CHEMISTRY

Doctor of Philosophy

David Peter Bulkley
Structural Studies of the Inhibition of Bacterial Translation

Nicholas Alexander Calandra
Development of Enantioselective Synthetic Routes to Hasubanan and Acutumine Alkaloids

Andrew Francis DeBlase
Charge Accommodation in Organic Motifs: Using Vibrational Predissociation Spectroscopy of Cold Gas Phase Ions to Unravel Structures of Reactive Intermediates

Eugene Farley Douglass, Jr.
Understanding Drugs that Bind Multiple Targets: Applications to Antibody and Hormone-based Therapeutics and Fluorescent Probes

Daniel Roman Eiler
Structural Studies of Bacterial Initiation Factor 2 and the Twister Ribozyme

Li Fu
Characterization of Biomolecules at Interfaces using Sum Frequency Generation Spectroscopy

Damian Paul Hruszkewycz
Properties and Reactivity of Pd(I) Bridging Allyl Dimers

Tachan Kim
Chemical Approaches to Modulate Biological Processes: Unique Activity of N-Phenacylthiazolium Compounds, Bacterial Cell Wall Engineering and Other Studies

Priyanka Lahiri
Structural Origin and Environmental Mediation of Dispersive Optical Activity in the Vapor and Solution Phases

Danielle Marie Larese
Exploring Quantum Phase Transitions and Quantum Monodromy in the Bending Dynamics of Floppy and Rigid Molecules using Algebraic Methods

Oana Raluca Luca
Virtual Hydrogen Storage Strategies for the Production and Storage of Hydrogen

Patrick James McEnaney
Development of Synthetic Molecules for Direct Targeting for Activation and Suppression of Immunological Responses and Related Studies

Rebecca Lee Milot
Interfacial Electron Transfer and Transient Photoconductivity Studied with Terahertz Spectroscopy

Victoria Leigh Mooney
Spectroscopic Characterization of Protein Photoceptors

James William Nelson
Using Riboswitches to Identify Second Messenger Regulons and Fluoride Toxicity Agonists

Jennifer Brooke Nguyen
Molecular Mechanisms of Host-Pathogen Interactions in Flavivirus and Hookworm Infection

Ravi Pokhrel
Water Oxidation Chemistry at the Oxygen-Evolving Complex in Photosystem II

Timothy Joseph Schmeier
Activation of Carbon Dioxide by Pincer Supported Transition Metal Complexes

Ning-Shiuam Nicole Snoeberger
Allosteric Inhibitors at the Heterodimer Interface of Imidazole Glycerol Phosphate Synthase

Shou-Ping Wang
Exploring the Sequence-Structure-Function Relationship in Beta-Peptide Foldamers

Arron Brenton Wolk
Cryogenic Ion Spectroscopy of Reactive Organometallic Intermediates and Non-covalent Complexes
Master of Science
Yuwei Cheng
Sarah J. Elfenbein
Namita Gupta
Gadareth Anthony Higgs
Tingting Jiang
Zhixiang Lin
Jason Anthony Vander Heiden

Doctor of Philosophy
Elizabeth Seon-Wha Kim
Robots for Social Skills Therapy in Autism: Evidence and Designs Toward Clinical Utility
Michael F. Nowlan
A Wire-Compatible TCP Implementation for Low-Latency Applications
Xueyuan Su
Efficient Fault-Tolerant Infrastructure for Cloud Computing
Alexander Garvey Thomson
Deterministic Transaction Execution in Distributed Database Systems
Andreas Richard Voellmy
Programmable and Scalable Software-Defined Network Controllers
Huan Wang
Dictionary Learning: Algorithms and Analysis
Su Xue
Data-driven Image Editing for Perceptual Effectiveness

Master of Philosophy
Ronghui Gu
Master of Science
Debayan Gupta
Hongqiang Liu
Yitzchak David Lockerman
Master of Science
John Ravindra Maheswaran
Master of Science
Wenjie Hu
Meng Huang
Tianxiong Jiang
Young Hwan Kim
Rasmus Jacobsen Kyng
Yang Li
Hushiyang Liu
Mengci Liu
Yuan Lu
Michael Jason Marmar
Jie Mei
Aayush Himanshu Upadhyay
Yuye Wang
Yan Wen
Yuan Xia
Chen Xu
Haotian Xu
Zhewu Zhou

East Asian Languages & Literatures
Doctor of Philosophy
Joshua Andrew Frydman
Uta Mokkan: A History of Early Japanese Poetry through Inscription
David Andrew Knight
Li Deyu and the Tang Fu in Ninth Century China
Ashton Michael Lazarus
Performing Culture: Representations of Commoner Performance in Early Medieval Japan

Ellen Crystal Tilton-Cantrell
Autonomy and Dependency
Relationships in Poetry and Fiction by Tomioka Taeko and Ito Hiromi

Master of Philosophy
Rea Amit
Film and Media Studies
Master of Arts
Chew Thia Chan
Master of Arts
Samuel Asher Malissa
Master of Arts

Master of Arts
Fu-ming Lee

East Asian Studies
Master of Arts
Yun Bai
Alan J. Baubonis
Marissa Leigh Fox
Yuan-I Huang
Kyohei Itakura
Connor Martin Mills
Xindi Qin
Rebecca Ann Roberts
Laura G Speyer
Xin Ying Tseng
Anran Wang
Likun Yang
Qiudi Zhang

Ecology & Evolutionary Biology
Doctor of Philosophy
Ashley Elizabeth Bear
The Developmental Basis of Behavioral Plasticity in the Butterfly Bicyclus anynana
Alex Dornburg
Night of the Holocentrids: A Phylogenetic Perspective on the Evolutionary History of an Enigmatic Clade of Nocturnal Reef Fishes

Andrea Hodgins-Davis
The Evolution of Gene Expression Reaction Norms in Saccharomyces Cerevisiae

Kimberly Joy Komatsu
Drivers of Grassland Community Structure and Ecosystem Function: The Role of Biotic Factors in Determining the Ecosystem Response to Alterations in Resource Availability

Jason W. Shapiro
Coevolution Along a Parasitism– Mutualism Continuum: Theory and Experiments with Phage and Bacteria

Jerome J. Weis
Causes and Consequences of Competitor Diversity in Food Webs

Master of Science
Valerie Joy Morley
Daniel Joseph Wieczynski

ECONOMICS

Doctor of Philosophy
Muneezah Mehmood Alam
Coping with Blackouts: Power Outages and Firm Choices

Maximiliano Andrés Appendino
Essays in Experiences and Household Finance

Cihan Artunç
Barrators, Berats, and Bandits: Economic Implications of Legal Rules in the Ottoman Empire and Egypt, 1600–1921

Oliver Detmar Bunn
The Impact of Confidence Indices and Long-Term Valuation Measures on the U.S. Stock Market

Timothy Mark Christensen
Essays in Nonparametric Econometrics

Camilo Ernesto Domínguez González
Aggregate Effects on the Marriage Market of a Big Increase in Education Attainment

Maximiliano Ariel Dvorkin
Macroeconomic Effects of Mobility and Reallocation Frictions

Vitor Farinha Luz
Essays in Insurance and Adverse Selection

Snaebjorn Gunnsteinssson
Essays on Asymmetric Information in Insurance Contracts and Social Learning of Trust

Yingni Guo
Essays in Economic Theory

Martin Benjamin Hackmann
The Welfare Effects of Policy Interventions in the U.S. Health Care Industry: Evidence from the Nursing Home Industry and Health Insurance Markets

Sander Heinsalu
Unawareness and Noisy Signaling

Jihyung Lee
Essays on Econometric Inference under Persistence and Nonlinear Dependence

Kota Mori
Essays on Economics and Politics of the Newspaper Market

Scott Glen Murdock
Essays on Inference for Economic Data with Temporal and Cross-Sectional Dependence

Christopher Andrew Neilson
Essays in the Evaluation of Education Policy

Byoung Gun Park
Essays on Econometric Models for Program Evaluation

Gregory Benjamin Phelan
Essays on Macroeconomics, Financial Intermediation, and Leverage

David E. Rappoport
Essays on the Real Implications of the Use of Leverage

Jamin D. Speer
Essays on Occupational Choice, College Major, and Career Outcomes

Kieran James Walsh
The Macroeconomics of Debt and Financial Markets

Xiaoxue Zhao
Tenure: Evidence from China

Seth David Zimmerman
Essays in Labor Economics and the Economics of Education

Master of Philosophy
Shameel Toheed Ahmad
Marcelo Castello Branco Sant’Anna

Gregory Fletcher Cox
Gabriele Ariel Foà
Benjamin Uwe Rolf Friedrich
Sharat Ganapati
Julia Mary Garlick
David Eduardo Gelvez Alvarez
Sebastian Heise
Eunhee Lee
Lorenzo Magnolfi
Corina Mommaerts
Pablo Adolfo Olmos
Esteban Javier Peralta
Max Augusto Perez Leon Quinoso
Ana Maria Reynoso
Camilla Roncoroni
Gabriella Valentina Santangelo
Stefan Schneeberger
Áron Dávid Tóbiás
Jeffrey Broadman Weaver
Kai Yan
Jeffery Yufeng Zhang

Master of Arts
Noriko Georgina Amano Patino
Jialu Chen
Matthew Oliver Hom
Timothy Addams Hyde
Rebecca Jay McKibbin
Yu Jung Whang
Lezhen Wu

ENGINEERING & APPLIED SCIENCE

Doctor of Philosophy
Jillian Andrejeck
Alginate-Encapsulated Pericytes and Freely Suspended Endothelial Cells for Vascular Self-Assembly: A Study of Paracrine Communication in Microvascular Tissue Engineering
Ning Dai
Formation of Nitrosamines and Nitrarnines in Amine-Based Post-Combustion CO2 Capture Systems
Lorenzo Figura
Experimental Study of Incipiently-Sooting Counterflow Diffusion Flames at High Pressures
King Yan Fong
Dissipation and Coherent Control in Nano-Optomechanical Systems
Leanne Marie Gilbertson
Advancing Sustainable Nanotechnology: Towards the Development of a Design Framework for the Future Production of Functional and Inherently Safer Carbon Nanotubes (CNTs) and CNT-Enabled Products
Weihua Guan
Electrofluidics in Micro/Nanofluidic Systems
Angela Hai Huang
Enhance the ECM Properties and Mechanical Properties of Tissue-Engineered Vessels via Novel Biomechanical and Biochemical Approaches: Biaxial Bioreactors and microRNA29 Inhibitor
Xiaojie Huang
Contour Tracking in Echocardiography via Sparse Modeling
Yiqiang Jian
Spatial Resolution Improvement in Positron Emission Tomography: Physics, Statistical Models and Iterative Image Reconstruction
Nidhi Khurana
Investigating Motion and Stability of Particles in Flows using Numerical Models
Alp Kucukelbir
Sparse and Steerable Representations for 3D Electron Cryomicroscopy
Giovanni Lenguito
Multiplexed Electrosprays for Space Propulsion Applications
Xiaokai Li
Carbon Nanotube/Silicon Hybrid Solar Cells
Liang Liang
A Multiple Hypothesis Based Particle Tracking Method With Application to Clathrin Mediated Endocytosis Analysis
Changchang Liu
Composites of Nano-Scale Metal Oxides and Structured Carbon as Solid Acid Catalysts and Catalyst Supports: A Spectroscopic Study
Bin Ma
Development of Quantitative Optical Techniques for Microgravity Combustion and Sooty Flame Characterization
Pawel Wawrzyniec Majewski
Magnetic Alignment and Charge Transport Improvement in Functional Soft Materials
Dzmitry Maliuk
Analog Neural Classifiers for Built-In Self-Test of Analog/RF Circuits
Ryan Alan Munden
Semiconductor Nanowire Characterization and Growth
Eben Matthew Olson
Fluorescence Fluctuation Spectroscopy for Clinical Applications
John Aaron Onofrey
Learning Statistical Deformation Models for Image Registration
Ryan Curtis Sekol
Design and Synthesis of Bulk Metallic Glass Alloys for Electrochemical Applications
Lin Shao
Jonas Schwan
Anthony Philip Straub
Namratha R. Vedire
Mary Grace Mamaril Velasco
Nayi Wang
Yu Wang
James Winters
Fan Yang
Fan Zhang

ENGLISH LANGUAGE & LITERATURE

Doctor of Philosophy

Anthony Paul Domestico
Theologies of Crisis in British Literature of the Interwar Period

Thomas Paul Koenigs
Fictionality in the United States, 1789-1861
Master of Philosophy
Master of Arts

Andrew Brock Kraebel
English Traditions of Biblical Criticism and Translation in the Later Middle Ages

Tessie Loukia Prakas
The Office of the Poet: Ministry and Verse Practice in the Seventeenth Century

Glyn Peter Salton-Cox
Cobbett and the Comintern: Transnational Provincialism and Revolutionary Desire from the Popular Front to the New Left

Nienke Christine Venderbosch
“The Com of More under Mistleothum Grendel Gongan”: The Scholarly and Popular Reception of Beowulf’s Grendel from 1805 to the Present Day

Eric Benjamin Weiskott
The Durable Alliterative Tradition

Master of Philosophy

Carla Baricz
Master of Arts

Alexis Kathleen Chema
Master of Arts

Jessica Matuoazzi
African American Studies

Aaron Thomas Pratt
Master of Arts

Natalie Veda Prizel
Master of Arts

Matthew Teruya Rager
Master of Arts

Prashant Sharma

Justin Andrew Sider
Master of Arts

Joshua Samuel Stanley
Master of Arts

Steven Kirk Warner
Master of Arts

Andrew Carl Willson
Master of Arts

Master of Arts

Lidia Klara Kuhivchak

Nadine Tara Weiss

EUROPEAN & RUSSIAN STUDIES

Master of Arts

Liqi Dong

Rachel Marieclare Fleig-Goldstein

Jake Robert Nelson

Laura Leigh Neville

Andrey V. Semenov

James Q. Wang
Matthew Thomas Wormer

EXPERIMENTAL PATHOLOGY

Doctor of Philosophy

Jason Robert Brown
Quantitative Analysis of Protein Biomarkers of Proliferation and Immune Infiltration in the Setting of Neoadjuvant Chemotherapy for Breast Cancer

Hallie Holland Wimberly
Validation and Assessment of Breast Cancer Biomarkers Estrogen Receptor Beta and Programmed-Death-1 Ligand-1

Mike Ran Zou
Epigenetic Regulation by H3K4 Histone Demethylase JARID1B in Mammary Development, Breast Cancer, and Trastuzumab Resistance

Master of Philosophy

Deborah Opeyemi Ayeni
Jonathan William Haskins
Katrina Marie Meeth
Lauren Michelle Moore
Laura Elizabeth Stevens
Nicholas Theodosakis II

FILM AND MEDIA STUDIES

Doctor of Philosophy

Joshua Laurence Glick
Los Angeles Documentary and the Production of Public History, 1958-1977
American Studies

Grant Joseph Wiedenfeld
Elastic Esthetics: A Comparative Media Approach to Modernist Literature and Cinema
Comparative Literature
Tyson James Edwards  
**Axonal Regeneration is Differentially Regulated by Two Distinct Heparan Sulfate Proteoglycans in Caenorhabditis elegans**

John Dickinson Eicher  
**Examining the Genetic Underpinnings of Commonly Comorbid Language Disorders**

Christopher Firnhaber  
**Neuron-Specific RNAi Reveals Neuronal Functions of Essential Genes**

Sophia Felicia Gayle  
**Screening for Regulators of Human Embryonic Stem Cell Self-Renewal with piggyBac Insertional Mutagenesis**

Gerald Soo Wei Goh  
**Discovery of Novel Driver Genes in Adrenocortical Tumors by Exome Sequencing**

Elizabeth Rose Deschene Jacox  
**The Role of Beta-Catenin Activation in the Hair Follicle: A Non-Cell Autonomous Mechanism of Stem Cell Dependent Tissue Growth**

Dionna Marie Kasper  
**The C. Elegans SNAP Complex Component SNPC-4 Coats piRNA Domains and Globally Affects piRNA Abundance**

Emily Kathryn Mis  
**Xylosyltransferase 1 is a Key Regulator of Early Chondrocyte Maturation and Mature Bone Formation**

Peter Foster McLean  
**Direct Intercellular Exchange through Somatic Ring Canals in Drosophila**

Lindsay Meredith Rush  
**Characterization of Drosophila M6: A Novel Tumor Suppressor and Critical Component of Multicellular Junctions**

Stephan Jonathan Kyle Sanders  
**Genetic Risk Factors in Autism Spectrum Disorder**

Elizabeth Anne Schroeder  
**Epigenetic Adaptation to Mitochondrial Stress**

Ellen Marie Vollmers  
**Targeting Human Melanoma with Oncolytic Parvovirus**

Arthur Jeremy Willsey  
**A Spatiotemporal Systems Biology Approach to Understanding Autism Spectrum Disorder**

**Master of Philosophy**

Hariyat Ketsella Andargachew  
**Master of Science**

Matthew Joseph Davis  
**Elizabeth Ann Genne-Bacon**

Jiaqi Jin  
**William Henry Olds III**

Zito Tseng  
**Siming Zhao**

**Master of Science**

Laurel Marie Hochstetler  
**Samuel Murakami**

**GEOLGY & GEOPHYSICS**

**Doctor of Philosophy**

Sitindra Sundar Dirghangi  
**An Evaluation of the Environmental and Biological Controlling Factors of Lipid-Based Climate Proxies**

Peter Munroe Jewett Douglas  
**Plant-Wax Isotopes in Neotropical Lake Sediments and Insights into the Ancient Maya Civilization**

Bradford James Foley  
**Generation and Initiation of Plate Tectonics on Terrestrial Planets**

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NOTES
THE NEWBERRY MEMORIAL ORGAN, WOOLSEY HALL

Built in 1901 by the Hutchings-Votey Organ Company of Boston, Massachusetts, the Newberry Memorial Organ was improved mechanically and almost doubled in size in 1915 and was then rebuilt and greatly enlarged in 1928. One of the largest, most outstanding, and beautiful instruments of this period, it is kept in excellent playing condition and is used throughout the academic year for recitals and concerts. The organ has 12,617 pipes in a three-story chamber. An “echo room” in the basement of Woolsey Hall has 700 additional pipes of zinc, lead, and sugar pine, producing tones that sound like horns, flutes, and whistles. The instrument, which requires tuning three times a year due to changes in humidity and temperature, is powered by two 20-horsepower motors.
THE SHIELD OF THE GRADUATE SCHOOL OF ARTS AND SCIENCES

The design for the Graduate School shield was drawn by Yale art professor Theodore Sizer and approved by the University. Four themes are symbolized in the arms of the School. The background of the “chief” (the place of honor) is Yale blue, with Roman numerals in white representing 1847, the year of the founding of the Department of Philosophy and the Arts, the earliest formal organization for graduate study at Yale and, in fact, in the entire United States. Below, on a white background, is a black Y-shaped device representing the “pallium,” a garment worn by philosophers in ancient Rome, and frequently used as a symbol for Yale. The three red crosses are derived from the arms of Bishop George Berkeley, who established in 1732 an endowment for Yale College graduates “reading for the second degree.” These were the first scholarships exclusively for graduate study at Yale.

THE MACE OF THE GRADUATE SCHOOL OF ARTS AND SCIENCES

The mace is carried at the head of ceremonial processions by the School’s marshal and displayed at such events as the annual Matriculation ceremony, awards Convocation, and Commencement.

The shaft of the mace is turned red mahogany. Inset near the top of the shaft on two sides is the shield of the Graduate School, rendered in cloisonné-enamelled metal. For description of the shield, see above. The shaft is topped by a disk of grained red and black macasser ebony, on which sits a large, faceted crystal orb, the chief design element of the mace. The orb symbolizes several characteristics of advanced study in the arts and sciences. The global shape suggests the ambition of advanced study to be comprehensive in its inquiry. The transparent clarity of the fine Austrian lead crystal of which the orb is made alludes to the motto of Yale University, Lux et Veritas, and to the enlightenment that scholars seek in their research and teaching. Finally, the many facets of the orb symbolize the complexity of advanced learning in the arts and sciences and the importance of approaching its subjects from many intellectual directions.

In addition to the large ceremonial school mace described above, there are four smaller maces that are carried by faculty and staff marshals. These marshals’ batons each have a similarly turned shaft of mahogany. At their tops is a single enameled shield.