



Yale University  
Graduate School of Arts and Sciences

*Degree Bulletin*  
*December 2024 & May 2025*

## DEGREES GRANTED, DECEMBER 2024 AND MAY 2025

Dissertations that have received Distinction are marked with an asterisk (\*).

### AFRICAN AMERICAN STUDIES

#### DOCTOR OF PHILOSOPHY

Jeong Yeon Lee  
Combined with English Language and Literature  
*The Practice of Apocalyptic Writing in African American Literature, 1829-1927*

Jasmine Riley  
Combined with American Studies  
*The Katrina Lexicon: On the Temporality of Blackened Gender, 1946-2018*

### AFRICAN STUDIES

#### MASTER OF ARTS

Joshua Amponsah

Shanique Reid

Ivana Egoabunwa Uzoh

Zhiqing Xu

### AMERICAN STUDIES

#### DOCTOR OF PHILOSOPHY

Robert Maxwell Clayton  
*Rethinking American State Development: Allotment and Indigenous Resistance in Montana, 1864-1920*

Maria Angelina Diaz  
*“Es Lo Que Viví”: Ethnic Mexican Vernacular Placemaking and the Formation of Twentieth-Century Houston*

Patricia Ekpo  
*Antiblackness as Spatial Production: Postminimalism, Site-Specificity, and Land Art, 1970s-Present*

Charlotte Murphy Hecht  
*American Nuclear: A Convergent History of Landscape and Power \**

Kelsey Elizabeth Henry  
*Racing the Life Course: Antiblack Epistemes and Ethical*

*Foreclosures in US Child Development Science, 1830 - 1960\**

Ever Esther Osorio Ruiz  
*The Violet Spring: Poetics and Technologies of Mexican Feminisms in the 21st Century*

Hector Peralta  
*Placing Transborder Sovereignty: Making Race, Indigeneity, and Reservation Enterprise on the US-Mexico Border*

Maria Jose Plascencia  
*Tijuana es Historia de Familias: Working Class Place Makers and a Global Sense of Place in the 20th Century*

Olivia Rachel Polk  
Combined with African American Studies  
*Black Lesbianism as a Way of Life: On the Ethics of Black, Queer, Feminist Experimentalism*

Melinda Diane Stang  
Combined with Film and Media Studies  
*Crypts of Fear: A Cultural History of America's Haunts*

### ANTHROPOLOGY

#### DOCTOR OF PHILOSOPHY

Alex Bertacchi  
*The Impact of Resource Predictability on Human Territoriality Among Late Quaternary Foragers in Malawi: Isotopic and Zooarchaeological Perspectives*

Asa Sion Cameron  
*Crafting the Nomadic State: Isotopic Perspectives Into Pastoral Practices, Mobility, and Subsistence During the Xiongnu Period of Mongolia*

Christina Marie Carolus  
*Sowing the Seeds of Empire: Archaeobotanical and Biomolecular Perspectives on Subsistence Transformation and the Emergence of Early Political Complexity on the Mongolian Steppe*

Michael A Corolla  
*The Evolution and Current State of Archaeomagnetism*

Mallory Danielle Cox  
*Towards an Interdisciplinary Archaeology of Pathogens: The*

*Malaria Pigment, Archaeomagnetism, and Vector-Borne Disease Ecology in Classic Period Maya Art \**

Katherine Elaine Daiy

*The Human Milk and Infant Gut Microbiome in Samoa: Analyses With Maternal Diet and a Qualitative Investigation of Samoan Women's Perceptions of Antibiotic Use*

Caitlin Reddington Davis

*A Peculiar Decoration: Production, Exchange, and Access to Usulután Pottery in the Late and Terminal Formative Southern Maya Region*

Corey Alexander Herrmann

*Evaluating Ancient Volcanic Disaster in the Rio Grande De Chone, Manabi, Ecuador*

Lav Kanoi

Combined with Environment

*Urban Water Ways: The Changing Waterscape of India's Thirsty Capital City*

David Rafael McCormick

*The Cotzumalhuapa Obsidian System: Economy of Procurement, Production, and Provisioning in a Classic Mesoamerican Polity*

Matthew O'Malley

*Remnant Time: An Oral and Social History of Antiracist Spatial Injustice, Community Memory, and a Black Sense of Place in Buffalo, New York*

Sakurako Oyama

Combined MD/PhD Program

*Female Reproductive Lives in Samoa – Reproductive Effort and Costs in an Obesogenic Environment*

Shivangi Pareek

*Art as (A) Living: Making Adivasi Art and Artists in Contemporary India*

Kefilwe Rammutloa

*Variabilities and Anomalies: An Archaeological Study of Early Iron Age Agriculturist Communities at the Emseni Site in the Thukela River Basin of the KwaZulu-Natal Province, South Africa\**

Benjamin Matthew Slightom

Combined with African American Studies

*Laboring for Aid: Black Women's Work in the Making of Detroit's Nonprofit Aid Economy\**

## **APPLIED MATHEMATICS**

### **DOCTOR OF PHILOSOPHY**

Daniel Geoffrey Edelberg

*Optimizing Variational Autoencoders for Complex Biological Data: Latent Variable Representations, Overfitting, and Invariance in Cryo-EM*

## **APPLIED PHYSICS**

### **DOCTOR OF PHILOSOPHY**

Haotian Cheng

*Advances in Silicon Photonics: Integrated Laser Stabilization, Isolation and Applications\**

Wei Dai

*Characterizing and Improving the Readout of Superconducting Qubits*

Naijun Jin

*Micro-Fabricated High-Finesse Fabry-Pérot Resonators*

Zheting Jin

*Development and Application of New Method and Platform for Correlated Oxides*

Vidul Ravindra Joshi

*Quantum Zeno Effect on the Decay of a Single Microwave Photon*

Akshay Koottandavida

*Quantum Error Detection and Correction of Bosonic Codes in a Superconducting Cavity*

Yizhi Luo

*High-coherence Phononic Resonator for Quantum Acoustic Applications*

Shraddha Singh

*Quantum Computing in Discrete- and Continuous-Variable Architectures\**

Wenzheng Wei

*Real-Time Synthesis and Characterization in Quantum Materials: Insights From Superconducting Nickelate Research*

Lang Zhang

*Maximal Heat and Light Extraction From the Optical Near Field*

Stijn Jan de Graaf

*Microwave Beamsplitters for Oscillator-Based Quantum Information Processing\**

### **MASTER OF SCIENCE**

Kezhou Jiang

Longjiang Li

Shengkai Li

Zijia Lin

## **ARCHAEOLOGICAL STUDIES**

### **MASTER OF ARTS**

Jason D Kuhl

Ruoyang Tu

## **ARCHITECTURE**

### **DOCTOR OF PHILOSOPHY**

Summer Sutton Adlparvar

*Indigenous Architecture: Marking and Stewardship Through History*

Jia Weng

*Architecture and Climatic Power: Control Valves, Fluid Territories, and Circulation in the Globalizing China, 1919–1995*

## **ASTRONOMY**

### **DOCTOR OF PHILOSOPHY**

Cheng-Han Hsieh

*Multi-Scale Star Formation: From Filaments to Protostellar Disk Substructures*

William Garrison Levine

*Unveiling Planetary Processes With the Solar System and Exoplanets*

Emma Loudon

*The Geometry of Exoplanetary Systems*

Tiger Chen Lu

*Planets Are Not Points: The Profound Effect of Planetary Structure on Exoplanet System Architectures\**

Imad Pasha

*Probing Galaxy Evolution and the Baryon Cycle via Novel Statistical Techniques and Instrumentation*

## **BIOMEDICAL ENGINEERING**

### **DOCTOR OF PHILOSOPHY**

Adil Irtiza Akif

*Energetic Connectomics on the Basis of Cellular and Synaptic Milieu in the Human Brain*

Praveen Honhar

*Emerging Quantitative Neuroimaging Markers of Parkinson's Disease\**

Yanning Liu

*Interleaved Proton and Deuterium Magnetic Resonance Methods and Their Applications in Human Brain Neurological Diseases*

Qiong Liu

*Improving Image Quality and Quantification Accuracy for Static and Dynamic PET*

Xingbo Shang

*Tunability of Calcium Dynamics by Signaling Inputs and Cell-Cell Communication in Pancreatic Beta Cells*

Haoyu Tang

*SPINK1-COL18A1 Crosstalk Shapes Epigenome and Drives Cancer Stemness in Pancreatic Ductal Adenocarcinoma*

Huidong Xie

*Deep Learning Strategies for PET and SPECT Image Enhancement*

### **MASTER OF SCIENCE**

Tianqi Chen

Hongjuan Hu

Nicole Christine Huning

Zhenyu Li

Haoran Qin

Yue Quan

Nadine Mikaelle Imana Rosete

Yunqi Xu

## **CELL BIOLOGY**

### **DOCTOR OF PHILOSOPHY**

Yuedong Huang

*Post-Transcriptional Regulation Mediated by Pumilio Proteins in Mouse Embryonic Stem Cells (mESCs)*

Nicolae Adrian Iftimia

*The Effects of Interaction With OCRL on the Localization and Function of the Polycystin 1 and 2 Signaling Complex*

Alyssa Marie Laffitte

*The LINC Complex Component Kms1 and CENP-B*

*Protein Cbp1 Cooperate to Enforce Faithful Homology-Directed DNA Repair at the Nuclear Periphery*

Philip Mannino

*A Mechanism for the Autophagic Degradation of Nuclear Components\**

Connor Patrick McBrine

*Cell Cycle Regulation of Polymerase Theta Mediated End-Joining Underlies Its Sensitivity to Loss of BLM-DNA2*

Kevin Murphy Reyes Parducho

*Discovery and Characterization of Lem26 as an Autophagy-Inhibiting Legionella Effector\**

Corbin Jacob Renken

*Cytoplasmic Ribosomes Hitchhike on Mitochondria to Dendrites in Vivo*

Max Scalf

*A Small Molecule That Promotes Privileged ReProgramming*

Milind Singh

*Understanding the Mechanisms Regulating Neuronal Metabolic States in Vivo*

Grace Lockhart Swaim

*Formation and Function of the Axonal Membrane-Associated Periodic Skeleton\**

## **CELLULAR AND MOLECULAR PHYSIOLOGY**

### **DOCTOR OF PHILOSOPHY**

Ngozi Damilola Akingbesote

*Innovative Approaches to Combat Triple-Negative Breast Cancer: Integrating Metabolic Modulation, Advanced Therapies, and Lifestyle Interventions*

Jessica Jody Furtado

*Regulation of Blood-Retina Barrier Integrity Across the Arteriovenous Axis*

Jessica June Rampy

*Novel Effects of Obesity on Thyroid Pathophysiology and Thyroid Hormone Action*

## **CHEMICAL AND ENVIRONMENTAL ENGINEERING**

### **DOCTOR OF PHILOSOPHY**

Andreas Jan Thomas Backhaus

*Sustainable Noble Metal Nanoparticle Synthesis at Scale*

Colby Buehler

*High Spatiotemporal Air Quality Monitoring Networks: Applications for Urban Air Quality, Emissions, Human Health, and Climate*

Taylor Tonya Hedtke

*Fenton-Like Catalyst-Functionalized Reactive Membranes Targeting Organic Contaminants*

Masashi Kaneda

*Engineering Functional Polymers for Silica Scaling Mitigation: Synthesis, Mechanisms, and Applications\**

Jo Ellen Machesky

*Emissions and Oxidation of Functionalized Gas-Phase Organic Compounds From Non-Traditional Sources in Urban Areas*

Jennifer Kali Rigby

*Stability of Single-Atom Catalysts Under Aqueous Reductive Conditions\**

Devan Solanki

*Catalysis, Characterization, and Computational Analysis of Mn-Alloyed TiO<sub>2</sub> Synthesized via Atomic Layer Deposition*

## **CHEMISTRY**

### **DOCTOR OF PHILOSOPHY**

Alexandra Katherine Bodnar

*Transition-Metal Catalyzed Dehydrogenation and Studies in Indole Diterpenoids*

Minh Duc Chu

*Method Development for the Synthesis of Pharmaceutically Relevant Chemical Structures*

Clayton Loran Craft

*The Dispersive Optical Activity of Non-rigid Compounds Under Isolated and Solvated Conditions*

Anthony Peter Deziel

*Group 10 Metal Complexes for Carbon-Carbon Bond Formation*

Mikaela Mary DiBello

*Total Synthesis of Novel Core Modified Pleuromutilin Analogs and Studies Towards the Total Synthesis of (-)-Lomaiviticin A\**

Jungmin Eun

*Computationally Guided Chemical Synthesis: Cu(I)-Catalyzed Borylation and Total Syntheses of Clovane Sesquiterpenoids and Deoxylimonin*

Benjamin Daniel Groff  
*Unraveling the Relationship Between Kinetics and Thermodynamics in Hydrogen Atom Transfer Reactions\**

Melody Chen Guo  
*Asymmetric Synthesis of Bioactive Scaffolds via Organocatalysis*

Randy Hamchand  
*Phenotypic Implications of Klebsiella Oxytoca Secondary Metabolism*

Xin Huang  
*Molecular Mechanism of Vibrio Cholerae Biofilm Adhesion*

Phillips Hutchison  
*Electrochemical Proton-Coupled Electron Transfer at Molecular Species Immobilized on Conductive Electrode Surfaces \**

Susannah Elizabeth Huth  
*Peptide-Catalyzed Asymmetric Oxidations of Heteroatoms*

Lauren Elisabeth Klein  
*Structural Studies of Cellular Prion Protein and Amyloid-Oligomers*

Gregory William Kyro  
*Deep Learning Methods for Protein–Small Molecule Interactions With Applications to Early-Stage Drug Discovery*

William Lake  
*Investigations Into Nanoscale Electric Fields Near Surfaces and Ions With Computational Vibrational Probes*

Haote Li  
*Continization and Language Representation of Chemical Information*

Yangyi Liu  
*Liquid-Liquid Phase Separation of Cellular Prion Protein and Its Biological Implications*

Savannah Marie Mason  
*Enantioselective Reductive Transformations by Metal and Non-Metal Catalyzed Hydrogen Atom Transfer With Carbohydrate and Peptide Derived Thiol Catalysts*

Ahmed Mohamed  
*Unveiling Chemical Complexity of Bulk Behavior Using Cryogenic Ion Vibrational Spectroscopy*

Olivia Caroline Moss  
*Characterizing the Photochemistry and Photophysics of Benzoylbenzoate and Formylbenzoate Anions Using Cryogenic Ion Spectroscopy*

Hannah Sullivan Nedzbala  
*Exploring (Photo)Electrocatalytic Systems: Studies of Molecular, Heterogeneous, and Hybrid Architectures for Small Molecule Catalysis\**

Valentina Rangel Angarita  
*Mucinomics Enables Characterization of Mucins in the Tumor Microenvironment*

Conor Lawrence Rooney  
*Waste to Worth: Diversified Products from CO<sub>2</sub> and NO<sub>x</sub> Electroreduction \**

Soren David Rozema  
*Development of Aza-Polycyclic Residues Enabling Novel Peptide Catalysis\**

Bo Shang  
*Light Enhanced Electrochemical and Photochemical CO<sub>2</sub> Reduction\**

Eleanor Grace Stewart-Jones  
*Understanding the Surface Chemistry of Porous Silicon for Applications in Hybrid Photoelectrocatalysis*

Jose Ignacio Vergara Panzone  
*Development of Regulated Induced Proximity Targeting Chimeras (RIPTACs) for Cancer Specific Proteins*

Zhi Xu  
*Development of an Enantioselective Synthesis of (–)-Euonyminol and Studies Towards the Total Synthesis of (–)-Lomaiviticin A\**

Jiayun Zhong  
*Computational Approaches to Understanding the Proton-Coupled Electron Transfer Reactions in Ribonucleotide Reductase\**

Qiwen Zhu  
*Computational Study of Redox-Active Protein Residues and Biological Proton-Coupled Electron Transfer*

**MASTER OF SCIENCE**  
 Mitchell Katemauswa

Jason D Li

Ella Meyer

Iara Filipa Monteiro Pedreira

Katheryn Claire Rinaolo

Cassie Aurora Rodrigues

## CLASSICS

### DOCTOR OF PHILOSOPHY

Francesca Ginevra Maria Beretta

Combined with Comparative Literature

*The Motionscape of Greek Tragedy: Greek Drama Through the Prism of Movement*

Elizabeth Ridgeway

*Plus Cultor Quam Ipsa per Se Bonitas Soli: The Care of Nature in Rhetorical Education*

## COMPARATIVE LITERATURE

### DOCTOR OF PHILOSOPHY

Katherine Louise Kirkland

Combined with Film and Media Studies

*Communal Encounters: Contemporary Documentary Restaging*

René Johannes Kooiker

*Carifesta: The Promise of Pan-Caribbeanism*

## COMPUTATIONAL BIOLOGY AND BIOINFORMATICS

### DOCTOR OF PHILOSOPHY

Sarah Nixon Dudgeon

*Graph Networks and Quantum AI/ML for Real World Evidence Generation*

Jeremy Pace Gygi

*Supervised Integration of Multi-Omics Immune Profiles via Latent Factor Modeling*

Pranav Kantroo

*Parkour in Protein Morphospace\**

Huan Li

*Computational Methods for Insights From EHR Data: Improving Provider Productivity and Applications to Patient Outcomes*

Jason Liu

*A Multi-Modal Approach to Precision Medicine: Bridging the Gap Between Genetics and Disease Using Genomics and Biosensors\**

Eric Ni

*Biomedical Privacy and Security: Histology Image Vulnerabilities and Blockchain Solutions*

Raghav Sehgal

*Translating Geroscience to Clinic: Using ML for Insightful and Responsive Aging Biomarkers*

Vimig Socrates

*On Uncertainty Quantification and Bayesian Reasoning in Clinical Applications of Large Language Models*

Junchen Yang

*Interpretable and Data-Driven Machine Learning Models for Analyzing High-Dimensional Biological Data*

Biqing Zhu

*Characterizing Neurodegenerative Disorders from Multi-Omics Perspectives\**

## COMPUTER SCIENCE

### DOCTOR OF PHILOSOPHY

Solstice Cerasus

*Cells in Motion: Manifold Interpolation Methodologies for Discerning Cellular Trajectories From Temporal Snapshots.*

Jonathan Evan Hochman

*Digital Identity Infrastructure*

Linyong Nan

*Generative Question Answering From Heterogeneous Knowledge Sources*

Ansong Ni

*Program Synthesis From Natural Language Using Language Models*

Anargyros Oikonomou

*Games in a High-Dimensional World: An Interplay Between Machine Learning and Game Theory\**

Yuyang Sang

*Objective DeepSEA: A Language for Developing Modular Certifiable System Software*

Yupeng Tang

*Optimizing Memory Management for Disaggregated Architectures*

Grigorios Velegkas

*Challenges in Modern Machine Learning: Generalization and Responsible Use\**

### MASTER OF SCIENCE

Yinliang Chen

Jiaying Deng

Jinyu Ding

Vadim Ezhov

Wenni Fan

Weining Fang

Bhavya Kasera

Stelios Kasouridis

Justin Lam

Chuhan Li

Binghong Li

Rachel Rui-Qi Liang

Yifei Luo

Jingze Ma

Jachym Putta

James Serrano

Ziyao Shangguan

Bowen Shi

Yizheng Shi

Isha Singh

Xutong Sun

Benlu Wang

Jingzhou Wang

Shikun Wang

Pengyu Wang

Chaoxu Wu

Guanchen Wu

Zhongjie Wu

Xinyue Xing

Yu Yan

Keyan Yang

Yihang Yin

Haoyang Zhou

Lulu Zhou

Yang Zhou

Lin Zhu

## EARLY MODERN STUDIES

### DOCTOR OF PHILOSOPHY

Colin Glen Hoch

Combined with History

*The Mirror of Scripture: Historical Memory, Translation, and the Bible in Early Modernity, 1450-1660*

Renata Reka Nagy

Combined with History of Art

*Remaking Natural History in Seventeenth-Century Northern Europe*

## EARTH AND PLANETARY SCIENCES

### DOCTOR OF PHILOSOPHY

William David Frazer

*Constraining Upper Mantle Dynamics With High-Resolution Imaging on Earth and Mars*

Caleb Matthew Gordon

*Reconstructing the Evolutionary Histories of Aquatic and Macrocarcivorous Lifestyles in Reptiles\**

Benjamin Hess

*Quantifying the Effects of Non-Hydrostatic Stress on Mineral Thermodynamics and Kinetics\**

Kelsey Meredith Jenkins

*The Early Evolution of Reptiles*

Alexie Erika Geiger Millikin

*Timing, Tempo and Drivers of Proterozoic Environmental Change: Insights From the Empirical Record*

Tom Reershemius Matras

*Quantification of Carbon Dioxide Removal via Terrestrial Enhanced Rock Weathering Using Mass-Balance in Soils\**

Silvina Slagter

*An Experimental Approach to Reconstructing Fossil Silicification and the Temporal Evolution of Marine Silica Cycling*

Jonathan Wolf

*Decoding Deep Mantle Dynamics Through Measurements and Modeling of Seismic Anisotropy and Heterogeneity\**

### MASTER OF SCIENCE

Eric Ellison



## EAST ASIAN LANGUAGES AND LITERATURES

### DOCTOR OF PHILOSOPHY

Mary Gilstad

*Theorizing the Anthology: Waka Contexts and Their Afterlives*

## EAST ASIAN STUDIES

### MASTER OF ARTS

Hanni Dong

Victoria Grant

Yuanzhe Li

Qiyuan Liu

Xiao Liu

Jiaqi Peng

Xinxin Wang

Qiuyi Wang

Anne Marie-Lillian Woldman

Haoran Zhang

Jiayi Zhang

Qifan Zhang

## ECOLOGY AND EVOLUTIONARY BIOLOGY

### DOCTOR OF PHILOSOPHY

Brooke Bodensteiner

*Thermal Physiological Evolution Across Scales: the Factors Shaping Lizard Trait Evolution\**

Diego Ellis Soto

*Wildlife Responses to Anthropogenic and Climactic Pulses: From Data Integration to Ecological Inference*

Jasmine Lianne Mah

*A Phylogenetic Analysis of Cell Types*

Liam Ulysses Taylor

*Extra-Somatic Development and the Evolution of Adolescence in Birds*

## ECONOMICS

### DOCTOR OF PHILOSOPHY

Francesco Beraldi

*Essays in Macroeconomics and Finance\**

David Bishop

*Essays on Economic Theory and Human Behavior*

Carlo Maria Cusumano

*Essays in Economic Theory\**

Burkett Evans

*Essays on American Economic History*

Daniel David Graves

*Essays on Investor Beliefs, Attention, and Arbitrage\**

Timothy David Hersey

*Essays in Development Economics*

Jack Andrew Liang

*Essays in Spatial Economics*

Ferdinand Manuel Pieroth

*Essays in Economic Theory\**

Matthew Ian Schwartzman

*Worker and Consumer Choice in the Process of Structural Transformation\**

Xiangyu Shi

*Four Essays on Social and Economic Networks and Firm Dynamics Across Space: The Case of the Chinese and U.S. Economies*

Samuel Thomas Slocum

*Essays in Macroeconomics and Financial Economics*

Samuel Solomon

*Occupational Choice and Social Mobility*

Lindsey Marie Uniat

*Essays on Gender in Macroeconomics*

Stephan Wolfgang Waizmann

*Essays on Microeconomic Theory*

## ENGINEERING AND APPLIED SCIENCE

### DOCTOR OF PHILOSOPHY

Tiago Dos Santos Domingues

Combined with Applied Mathematics

*Parameter Estimation and Feature Selection Problems in Molecular Simulations of Confined Fluids*

Tong Gou  
*Adaptation to Visual Sparsity Enhances Responses to Isolated Stimuli*

Tori Nicole Hass-Mitchell  
*Emissions and Oxidation of Urban Aerosols via a Multi-Site Analysis in New York City*

Inhyeong Jeon  
*Toward Chemical-Free Water Treatment Systems for Sustainable Water Supply\**

Youngeun Kim  
*Algorithmic Approaches for Empowering Spike-Based Machine Intelligence*

Rostacia Arletha Coretta Lewis  
*Hydrodynamic Particle Focusing in Microfluidic Flows*

Qinghao Liang  
*Advancing Machine Learning in Neuroimaging by Maximizing Data Utility Through Imputation and Connectome Harmonization*

Ruichun Ma  
*Bridging Heterogeneous Wireless Networks With Metasurfaces\**

Akrit Mudvari  
*Resource Efficiency at the Network Edge and Deep Learning Methods*

Seonghoon Noh  
*Legged Locomotion Through Mechanical Adaptability*

Matthew Joseph Rosenblatt  
*Pitfalls of Neuroimaging Predictive Models of Individual Differences*

Yubo Wang  
*Chip-Scale Ti:Sa Lasers With Integrated Visible Photonics*

Xinzhe Wang  
*Nanomechanical and Molecular Studies via Advanced Atomic Force Microscopy*

Jiacheng Xie  
*Towards Terahertz Mechanical Resonators*

Chuanqi Xu  
*Security and Privacy of Quantum Computers*

Wenjin Xue  
*Efficient Simulation and Design for Large-Scale Photonics*

Junlin Yang  
*Domain Adaptation in Multimodal Medical Image Analysis*

Likai Yang  
*Quantum Photonic Devices With Rare Earth Incorporated Thin-Film Lithium Niobate*

Bilige Yang  
*Morphological Adaptation in Robots Through Anisotropic Materials*

Isaiah Yim  
*Investigating the Role of Paracrine Signaling in the Regulation of the Inflammatory Response in Macrophages*

## **MASTER OF SCIENCE**

Yiyao Liu

LingNa Shu

Madeleine Tran

## **ENGLISH LANGUAGE AND LITERATURE**

### **DOCTOR OF PHILOSOPHY**

Tess Hailey Grogan  
*The Old Lie: Rhetorics of Heroism in Early Modern England*

Eve Houghton  
*Awkward Types: Character and Attention in Early Modern English Drama\**

Caitlin Nicole Hubbard  
*Reading Between the Scenes: Spectacle as Action and Idea in Early Modern English Theater*

Kassidi S Jones  
Combined with African American Studies  
*Our Share of Summers: Tending the Environment in Nineteenth-Century Black American Poetry\**

Margaret Lacey Jones  
Combined with Religious Studies  
*Breakdown: Modernity's Metafiction*

Andrew James Lanham  
*The Promise of Peace: How Black Antiwar Writers Reimagined Civil Rights and Shaped the Struggle for Democracy in the United States, From 1898 to the War on Terror*

Katherine Needham  
*The Anxiety of Artifice: Translation and Style in Early Modern England*

## **MASTER OF ARTS**

Yanyan Ge

Ellen Israel

Olivia Ann Kulevich

Emma Ji-Eun Park

## ENVIRONMENT

### DOCTOR OF PHILOSOPHY

Yara Abdulrahman A Alshwairikh

*Exploring Evolutionary History and Climate Adaptation in a Freeze-Tolerant Vertebrate*

Samara Meade Brock

*Following the Future of Food: Expert Enactments of the Global Food System*

Kristy Marie Barnes Ferraro

*The Zoogeochemistry of Northern Ungulates*

Simon Fridtjof Lang

*Distributional Considerations in Climate Economics*

Manon Lefevre

Combined with Anthropology

*Embryo Cultures: Re/producing 'Life' in the IVF Lab\**

Alexander Polussa

*The Role of Local Factors in Shaping Microbial Communities and Biogeochemical Functions Across Scales*

Rohan Daniel Simkin

*Biodiversity and Human Health in an Urban Era*

Akshay Surendra

*Mycorrhizal Type Mediates Plant-Soil Feedback and Density Dependence in a Sri Lankan Rainforest*

David J Woodbury

*People's Influence on Forest Structure and Composition in Sri Lankan Rainforest Fragments*

Keer Zhang

*A Global Analysis of Urban Effect on Thermal Environment\**

## EUROPEAN AND RUSSIAN STUDIES

### MASTER OF ARTS

Jacob Frederick Link

Darya Maliauskaya

Vita Raskeviciute

Manjola Shehu

Oliver Andrzej Wolyniec

## EXPERIMENTAL PATHOLOGY

### DOCTOR OF PHILOSOPHY

Diana Alexandra Yanez

Combined MD/PhD Program

*Analysis of Revertant Mosaicism and Intercellular Competition in Ichthyosis with Confetti*

## FRENCH

### DOCTOR OF PHILOSOPHY

Mohamed Walid Bouchakour

*Beyond Emergency: Aesthetics and Politics of the Contemporary Algerian Novel*

Abigail Fields

*The Literary Field: Agriculture and the Ecological*

*Imagination in the Nineteenth-Century French Novel*

## GENETICS

### DOCTOR OF PHILOSOPHY

Ashley Nicole Abel

*Elucidating Mechanisms of Human Epiblast Development During Implantation\**

Joseph James Balowski

*Characterizing ALKBH1 Function in Human Embryonic Stem Cells*

Tyler Jacob Brown

*Investigating a Novel Role for Kinetochore Proteins in Ribosome Biogenesis*

Kelly Carufe

*Applying Gene Editing Technology for Correction of Human Disease*

Jiaying Chen

*Deciphering the Function of Piwi in Selecting Transcription Start Sites*

Yanbo Chen

*Non-Disruptive 3D Profiling of Combinatorial Epigenetic Marks in Single Cells: Development and Applications of the Epi-PHR Method*

Yubao Cheng

*Probing the Spatial Architecture and Function of Genome and Transcriptome\**

Carrie Ann Davison  
*Mechanisms of Axon Regeneration and Degeneration in Caenorhabditis Elegans*

Nicholas Sami Diab  
Combined MD/PhD Program  
*Exploring a Role for TMBIM4 in the Pathogenesis of Congenital Heart Disease*

Shuangshuang Du  
*Deciphering Fibroblast Regulatory Mechanisms in Murine Neonatal and Adult Epidermal Regeneration*

Chloe Elizabeth Emerson  
*Regulation of Programmed Cell Death During C. Elegans Development*

Cathy Carolina Garcia  
*Elucidating Mechanisms of Endocrine-Exocrine Signaling in Obesity-Driven Pancreatic Cancer*

Kevin Bijan Givechian  
Combined MD/PhD Program  
*From Tumor Immunogenomics to Deep-Learning for Immunogenicity Prediction*

Mengze He  
*Epidermal Stem Cells Control Periderm Mechanics and Injury Repair via Matrix-Driven Specialization of Intercellular Junctions*

Tyler Barry Jensen  
Combined MD/PhD Program  
*From Nucleosomes to Chromosomes: Uncovering Developmental Regulators of Genome Architecture\**

Shengyan Jin  
*Investigating 3D Nucleome Architecture Alterations in Lung Adenocarcinoma*

Katherine Elizabeth Koczwara  
*From Bench to Clinic: Developing Pre-Clinical Resources, Assays, and Therapeutics for GNE Myopathy*

Valentyna Kostiuk  
Combined MD/PhD Program  
*Mechanisms of Heart and Major Vessel Development: Nup107 and Cacna1g as Novel Regulators*

Mei Lan Li  
*Fibroblast Homeostasis and Their Contributions to Intestinal Polyp Formation*

Kira Lynn Marshall  
*Evolutionary Innovations in Mammalian Germline Regulatory Biology\**

Luhan Ni  
*Investigation of Lipid Dysregulation in Spinocerebellar Ataxia Type 1*

Atreyo Pal  
*Resolving the Three-Dimensional Interactome of Human Accelerated Regions During Human and Chimpanzee Neurodevelopment*

Monique Pedroza  
*A Balancing Act: Decoupling the Coordinators of Early Human Development Using a Stem Cell-Based Platform*

Madison Rackear  
*Towards a Next-Generation Cell-Penetrating Monoclonal Antibody for Targeted Tumor Nucleic Acid Delivery*

Jonathan Stewart Radda  
*Innovations in Spatial Nucleomics: Multiplexed Epigenomic Profiling and Next-Generation Tools for FISH Research*

Ethan Strayer  
*NaP-TRAP Reveals 5'UTR-Mediated Translation Regulation During Zebrafish Development*

Zemeng Wei  
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