



GRADUATE SCHOOL  
OF ARTS AND SCIENCES  
COLUMBIA UNIVERSITY

DOCTOR OF PHILOSOPHY  
**CONVOCATION**

SUNDAY, MAY 12, 2024

COLUMBIA UNIVERSITY  
GRADUATE SCHOOL OF ARTS AND SCIENCES  
PHD CONVOCATION 2024

**ACADEMIC PROCESSION**

Doctoral candidates  
Faculty of the Graduate School of Arts and Sciences  
*Saint-Saëns: Symphony No. 3 “Organ”*

**OPENING REMARKS**

Carlos J. Alonso, Dean  
*Graduate School of Arts and Sciences*  
*Vice President for Graduate Education*  
*Morris A. and Alma Schapiro Professor in the Humanities*

**KEYNOTE ADDRESS**

Nim Tottenham  
*Professor and Chair of Psychology*

**PRESENTATION OF THE DOCTORAL CANDIDATES**

**FINAL REMARKS AND RECESSIONAL**

Dean Alonso

**MUSIC**

Performance by the band Freelance



The following pages include graduates who received the doctoral degree in October 2023 and February 2024, as well as candidates for the May 2024 degree conferral.

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## ANTHROPOLOGY

### **Elif Az**

*Mining interruption: Life, labor, and coal after the Soma mine disaster*

Advisor: Rosalind Morris

### **Katharina Blank**

*“A laboratory of a new Brazil to come”: Cultural policy and political imagination in the urban peripheries of Rio de Janeiro state between 2003 and 2019*

Advisor: Catherine Fennell

### **Valerie Bondura**

*Los vecinos del Embudo: A historical archaeological analysis of multiple colonialisms in the Northern Rio Grande*

Advisor: Severin Fowles

### **Clare Casey**

*The fiscal deployments of community: At-risk youth and the hidden healthcare-welfare state*

Advisor: Nadia Abu El-Haj

### **Vivian Crockett**

*“The skin of all”: The racial politics of an anthropophagic return in Hélio Oiticica and Lygia Pape*

Advisor: Kellie Jones

### **Natasha Davis**

*Rust belt industrial ruination in the working-class imagination: The descendants*

Advisor: Marilyn Ivy

### **Zohar Elmakias**

*Minefield, railway, temple: The violent making of space and time in Israel/Palestine*

Advisor: Nadia Abu El-Haj

### **Tomoki Fukui**

*Exposed life runs free: Gender, labor, and speculation in TEPCO's Fukushima nuclear disaster*

Advisor: Marilyn Ivy

### **Gustav Kalm**

*Who owns the mountain? Legal form of foreign investment and international inequalities*

Advisor: Brian Larkin

### **Natalie Reinhart**

*Legal lives and carceral histories: Making the uncontrollable girl in Jamaica*

Advisor: David Scott

### **Anna Schirrer**

*Regimes of reparative reasoning: The international politics of justice claims for transatlantic slavery in Europe, the United Nations, and the Anglophone Caribbean*

Advisor: David Scott

### **Howard Taylor**

*“Grammars of repair”: Redress for German colonialism in the aftermath of the Shoah*

Advisors: Nadia Abu El-Haj and David Scott

### **Brendane Tynes**

*“I can't die. I won't.”: Toward a radical reimagination of the (after)lives of Black women in Baltimore*

Advisor: David Scott

## ART HISTORY AND ARCHAEOLOGY

### **Seher Agarwala**

*Reading paintings, visualizing texts: Image, imagination and ethics in sixteenth-century Golconda*

Advisor: Vidya Dehejia

### **Bailey Barnard**

*Making an appearance: Presenting Hellenistic kings in portraits and in person*

Advisor: Ioannis Mylonopoulos

### **Alexandra Zoë Dostal**

*Rope, linen, thread: Gender, labor, and the textile industry in eighteenth-century British art*

Advisor: Meredith Gamer

### **Alexander Ekserdjian**

*The gods of Hellenistic central Italy: Theology, representation, and response*

Advisor: Francesco de Angelis

### **Katherine Fein**

*The garb of nature: Art, nudity, and ecology in the nineteenth-century United States*

Advisor: Elizabeth Hutchinson

### **Tara Kuruvilla**

*Dissecta membra: The life and afterlife of the India museum*

Advisor: Vidya Dehejia

### **Emma Le Pouésard**

*Contested sites of feminine agency: Ivory grooming implements in late medieval Europe*

Advisor: Holger Klein

### **Cleo Nisse**

*Unraveling canvas: From Bellini to Tintoretto*

Advisor: Diane Bodart

### **Daniel Ralston**

*Creating the modern Spanish school: Fortuny, Madrazo, and Manet*

Advisor: Anne Higonnet

### **Corey Ratch**

*Rendering bodies: The abattoir in modern art and photography*

Advisor: Elizabeth Hutchinson

### **David Sledge**

*Contested modernism: Black artists and the spaces of modern American art, 1925-50*

Advisor: Elizabeth Hutchinson

### **Mary Superfine**

*Ruins and remains: Performative sculpture and the politics of touch in the 1970s*

Advisor: Kellie Jones

## ASTRONOMY

### **Matthew Abruzzo**

*The inner TuRMoiL of cloud-wind interactions in galactic overflows*

Advisor: Greg Bryan

### **Tianhuan Lu**

*Weak lensing cosmology and its astrophysical systematics through machine learning*

Advisor: Zoltan Haiman

### **Yuxi Lu**

*Rewinding the Milky Way in time*

Advisor: Mordecai-Mark Mac Low

### **Aaron Tran**

*Electron energization in solar wind shocks and the intracluster medium*

Advisor: Lorenzo Sironi

## BIOLOGICAL SCIENCES

### **Eman Riaz Ahmed**

*Exploring the effects of dietary fatty acids and iron on modulating sensitivity of lymphomas to ferroptosis*

Advisor: Brent Stockwell

### **Bitu Alaghebandan**

*The SWI/SNF chromatin remodeling complex promotes SQLE dependency in pancreatic cancer cells*

Advisor: Carol Prives

### **Nooriel Banayan**

*A computational approach to rational engineering of protein crystallization*

Advisor: John Hunt

### **Prikshat Dadhwal**

*Mammalian translation termination intermediates captured using PDMS microfluidics-based time-resolved cryo-EM (TRCEM)*

Advisor: Joachim Frank

### **Hannah Dayton**

*Cellular arrangement in *Pseudomonas aeruginosa* biofilms*

Advisor: Lars Dietrich

### **Ruoyu Gu**

*Spatial and functional genomic profiling of cell states*

Advisor: Jellert Gaublomme

### **Pedro Gutierrez Tamayo**

*Studies on eukaryotic pre-mRNA 3'-end processing: Insights into PAS recognition and the U7 snRNP activity*

Advisor: Liang Tong

### **Carla Hoge**

*The evolution of meiotic recombination in vertebrates: The case of snakes*

Advisor: Molly Przeworski

### **Zhengshan Hu**

*Structural and functional studies of CNG channels*

Advisor: Jian Yang

### **Abdurrahman Keskin**

*Exploring a non-canonical mode of gene regulation mediated by mRNA transcript isoform switching in the context of mammalian development*

Advisor: Marko Jovanovic

### **Hoyon Kim**

*Mechanism of activation of the transcriptional activator of the Hedgehog signaling pathway*

Advisor: Daniel Kalderon

### **Michael Kimble**

*Homology-directed repair of one- and two-ended DNA double-strand breaks*

Advisor: Lorraine Symington

### **Rowyn Liebau**

*UVSSA regulates transcription-coupled genome maintenance*

Advisor: Jean Gautier

### **Lizhi Liu**

*Non-canonical WDR33 isoforms:*

*Characterization, regulation, and functional significances in STING-mediated innate immune responses*

Advisor: James Manley

### **Michael Lu**

*Comparative analysis of nuclear proteomes and strain-specific chromosomes in *Oxytricha trifallax**

Advisor: Laura Landweber

### **William Milligan**

*Population genetic models of mutation rate evolution and adaptation and the impact of essential workers in the context of social distancing for epidemic control*

Advisor: Guy Sella

### **Marina Smiley**

*Regulation of redox metabolism in *Pseudomonas aeruginosa* biofilms*

Advisor: Lars Dietrich

## BIOLOGICAL SCIENCES (*continued*)

### **Danylo Villano**

*Widespread 3D genome reorganization precedes programmed DNA rearrangement in *Oxytricha trifallax**

Advisor: Laura Landweber

### **Daniel Virga**

*Understanding the molecular, cellular, and circuit defects characterizing the early stages of Alzheimer's disease*

Advisor: Franck Polleux

### **Qianyun Zhang**

*Mechanisms for cancelling self-generated sounds in a cerebellum-like circuit*

Advisor: Nathaniel Sawtell

### **Erica Wolin**

*SPIDR: The development and application of a highly multiplexed CLIP-seq method*

Advisor: Marko Jovanovic

## CHEMICAL PHYSICS

### **Paul Robinson**

*Structure and dynamics in electron-phonon coupled materials*

Advisor: David Reichman

### **John Weber**

*Developments in auxiliary field quantum Monte Carlo for molecules*

Advisors: Richard Friesner and David Reichman

### **Enda Xiao**

*Anharmonic phonon behavior using Hamiltonian constructed via irreducible derivatives*

Advisor: Chris Marianetti

## CHEMISTRY

### **Pierre Devlaminck**

*Advancements in computational small molecule binding affinity prediction methods*

Advisor: Richard Friesner

### **Chengming He**

*Structure and dynamics studies of proteins using solid-state NMR*

Advisor: Ann McDermott

### **Sukjin Jang**

*Exploring the free energy landscape of RNA stem-loop folding*

Advisor: Ruben Gonzalez

### **Arden Lee**

*Metabolic engineering of live yeast for the production of current and novel tetracyclines*

Advisor: Virginia Cornish

### **Allyson Li**

*High-throughput profiling of sequence recognition by phosphotyrosine signaling proteins*

Advisor: Neel Shah

### **Victoria Posey**

*Exploring heavy fermion physics in van der Waals materials*

Advisor: Xavier Roy

### **Baiyu Qiu**

*Discovery of unusual phospholipids as ferroptosis markers*

Advisor: Brent Stockwell

### **Korak Kumar Ray**

*The functional mechanism of the bacterial ribosome, an archetypal biomolecular machine*

Advisor: Ruben Gonzalez

### **David Rios**

*Engineering G-protein coupled receptor-based living yeast diagnostics for infectious diseases*

Advisor: Virginia Cornish

### **Hui Tan**

*Small molecules modulating ferroptosis in disease models*

Advisor: Jack Norton

## CHEMISTRY *(continued)*

### David Vaccaro

*The synthesis and structural characterization of main group and lanthanide metal compounds supported by the multidentate [N3C] donor ligand tris[(1-isopropylbenzimidazol-2-yl)dimethylsilyl]methyl, [TismPriBenz]M*  
Advisor: Gerard Parkin

### Han Yang

*Investigating origins of anomalous behavior in single molecule translational measurements of polystyrene near its glass transition temperature*  
Advisor: Laura Kaufman

### Yizhuo Yang

*Structural and functional studies of T-cell intracellular antigen-1 (TIA1)*  
Advisor: Ann McDermott

### Lichirui Zhang

*Advances in integrative modeling for proteins: Protein loop structure prediction and NMR chemical shift prediction*  
Advisor: Richard Friesner

## CLASSICS

### Erin Petrella

*On naming and knowing plants: Botanical Latin from Pliny the Elder to Otto Brunfels' 1530 Herbarum vivae eicones*  
Advisor: Carmela Franklin

### Charles Pletcher

*Props and power: Objects and economies of knowledge in four plays of Sophocles*  
Advisors: Nancy Worman and Helene Foley

## CLASSICAL STUDIES

### Francesco Cassini

*Cities and spaces: Monuments, patronage, and society in late Republican Italy (second to first century BCE)*  
Advisor: Francesco de Angelis

## EARTH AND ENVIRONMENTAL SCIENCES

### Janine Birnbaum

*Multi-phase controls on lava dynamics determined through analog experiments, observations, and numerical modeling*  
Advisor: Einat Lev

### Roger Creel

*Reconstructing and understanding how past warming affected sea level, ice sheets, and permafrost*  
Advisor: Jacqueline Austermann

### Christopher Carchedi

*Environmental and tectonic systems in Africa and South Asia constrained by seismic noise, surface waves, and scattering*  
Advisor: James Gaherty

### Michael Deluca

*New  $^{40}\text{Ar}/^{39}\text{Ar}$  geochronological constraints on the Old Red Sandstone and Caledonides of Scotland*  
Advisor: Nicholas Christie-Blick

### Elizabeth Case

*Ice formation, deformation, and disappearance*  
Advisor: Jonathan Kingslake

### Sarah Giles

*Timing, origin, and potential global connections of mid-Ediacaran phenomena in South Australia and eastern California*  
Advisor: Nicholas Christie-Blick

## EARTH AND ENVIRONMENTAL SCIENCES *(continued)*

### **Rebecca Herman**

*Drivers and mechanisms of historical Sahel precipitation variability*  
Advisor: Adam Sobel

### **Tyler Janoski**

*Exploring the timescales and mechanisms of polar amplification*  
Advisor: Michael Previdi

### **Michelle Lee**

*Imaging and characterizing seafloor structures associated with active magmatic and hydrothermal processes at and near seamounts on the Juan de Fuca plate from ridge to trench*  
Advisor: Suzanne Carbotte

### **Theresa Sawi**

*Unsupervised machine-learning applications in seismology*  
Advisor: Felix Waldhauser

### **Arianna Varuolo-Clarke**

*The mystery of observed and simulated precipitation trends in southeastern South America since the early twentieth century*  
Advisor: Jason Smerdon

### **Suki Wong**

*Mechanisms of variability of air-sea fluxes of carbon dioxide from the coastal ocean to the open ocean*  
Advisor: Richard Seager

### **Yujia You**

*Extreme precipitation over the Asian summer monsoon region: Process-oriented perspective and the role of anthropogenic forcings*  
Advisor: Mingfang Ting

## EAST ASIAN LANGUAGES AND CULTURES

### **Zachary Berge-Becker**

*Arts, leisure, and the construction of “gentlemanly” (shi士) identities in seventh- to fourteenth-century China*  
Advisor: Robert Hymes

### **Hyoseak (Stephen) Choi**

*Literary dependents: The child and publishing culture in modern Japan*  
Advisor: Tomi Suzuki

### **Michelle Hauk**

*Dwelling with water: Tokyo waterworks and the remaking of the urban home, 1890-1990*  
Advisor: Paul Kreitman

### **Christopher Kim**

*The rise of territorial states in early China: Institutional organization and economic integration in the state of Qi, ca. 1040-221 BCE*  
Advisor: Feng Li

### **Ekaterina Komova**

*Remaining beautiful in death: On the affect of dying and mourning in the Genji Monogatari*  
Advisor: Haruo Shirane

### **Qichen Qian**

*Benign bellicosity: Tibetan military history and the making of Ganden Podrang 1642-1793*  
Advisor: Gray Tuttle

### **Nataly Shahaf**

*Multiple exposures: Ghosts, Buddhism, and visual heritage in early twentieth-century China*  
Advisor: Eugenia Lean

### **Riga Shakya**

*Mirrors of history: The poetics of the Tibetan kingdom in the time of empire (1728-1750)*  
Advisor: Gray Tuttle

### **Shih-han Wang**

*Elites in between: Elite formation and cultural interaction in Bronze Age lower Yangtze (ca. 1300-350 BCE)*  
Advisor: Feng Li

### **Oliver White**

*Layers of laughter: Investigating the appeal of Jippensha Ikku's Hizakurige, an early modern Japanese bestseller*  
Advisor: Haruo Shirane

## ECOLOGY, EVOLUTION, AND ENVIRONMENTAL BIOLOGY

### **Sarah Bruner**

*Complementarity underlies forest function:  
Diversity as a facet of compensation and stability*  
Advisors: Shahid Naeem and Kevin Griffin

### **Patrick McKenzie**

*Linking phylogenetic models to population  
processes, from species trees to genomes*  
Advisor: Deren Eaton

### **Natalie Niepoth**

*Genetic, molecular, and neuroendocrine basis of  
behavioral evolution in deer mice*  
Advisor: Andrés Bendesky

## ECONOMICS

### **Omar Ahsan**

*Essays in empirical corporate finance and labor  
economics*  
Advisor: R. Glenn Hubbard

### **John Cremin**

*Politics meets the internet: Three essays on social  
learning*  
Advisor: Evan Sadler

### **Jeffrey Guo**

*Essays in experimental political economy*  
Advisor: Alessandra Casella

### **Yuchen Jiang**

*Essays in applied microeconomics*  
Advisor: Michael Best and Miguel Urquiola

### **Michelle Jiang**

*Essays in behavioral/experimental and labor  
economics: information, networks, and  
institutions*  
Advisor: Sandra Black

### **Dian Jiao**

*Essays in development economics*  
Advisor: Eric Verhoogen

### **Utkarsh Kumar**

*Essays in development economics with a focus on  
gender, health, and the environment*  
Advisor: Eric Verhoogen

### **Parijat Lal**

*Essays in public economics and development*  
Advisor: Michael Best

### **Seung-hun Lee**

*Essays on state capacity and human capital*  
Advisor: Suresh Naidu

### **Shaoyu Liu**

*Essays in economics of science*  
Advisor: Miguel Urquiola

### **Wendy Morrison**

*Micro-heterogeneity and macroeconomic policy*  
Advisor: Jennifer La'O

### **Bozidar Plavsic**

*Essays on credit markets and on information*  
Advisors: Pierre-André Chiappori and Bernard  
Salanié

### **Susannah Scanlan**

*Essays on attention allocation and factor models*  
Advisor: Michael Woodford

### **Edward Shore**

*Essays in finance*  
Advisors: Hassan Afrouzi and Harrison Hong

### **Mitchell Vaughn**

*Essays in international macroeconomics*  
Advisors: Stephanie Schmitt-Grohé and  
Martin Uribe

## ENGLISH AND COMPARATIVE LITERATURE

### Alex Alston

*Ambivalent ecologies: Representations of the nonhuman in African American literature, 1830-1940*

Advisor: Brent Edwards

### Emily Foster

*Unhappy endings: Continuing the nineteenth-century novel*

Advisors: James Adams and Sharon Marcus

### Evyann Gainey

*Disability and theatrical representation in early modern repertory drama*

Advisor: Alan Stewart

### Lauren Horst

*Fictions of development: Decolonization, development economics, and the African novel*

Advisor: Joseph R Slaughter

### Chloe Howe Haralambous

*The rescue plot: Politics, policing and subterfuge in the central Mediterranean migrant corridor*

Advisor: Stathis Gourgouris

### David Jamieson

*Evoking disgust in the eighteenth century*

Advisor: Alan Stewart

### Amanda Lowe

*Geopoesis: Literary form and geologic theory in the American nineteenth century*

Advisor: Branka Arsić

### Naomi Michalowicz

*Smart characters: Psychometrics and the twentieth-century novel*

Advisor: Matthew Hart

### Zoë Pollak

*The work of art: Honoring the overlooked in northeastern American nature poetry of the long nineteenth century*

Advisor: Branka Arsić

### Jonathan Reeve

*The eye of modernism: Visualities of British literature, 1880-1930*

Advisor: Sarah Cole

### Ami Yoon

*Casual things: Poetry, natural history, and violence in nineteenth-century America*

Advisor: Branka Arsić

## FRENCH AND ROMANCE PHILOLOGY

### Sophia Mo

*Maneuvering at the margins: Women's emancipation, the global anticolonial struggle, and the revolutionary periodical in Algeria*

Advisor: Madeleine Dobie

### Benjamin Olivennes

*A modern antimodern: Yves Bonnefoy's critique of twentieth-century art*

Advisor: Antoine Compagnon

## GERMANIC LANGUAGES

### Anruo Bao

*The saturnine messiah: The literary representation of Sabbatai Zevi in modern Jewish literature*

Advisor: Jeremy Dauber

### Cosima Mattner

*Citation and tradition: Hannah Arendt's and Susan Sontag's Walter Benjamin portraits*

Advisor: Claudia Breger

### Amy Leech

*A multidirectional Europe: Post-Socialist memory in contemporary German literature*

Advisor: Claudia Breger

### Thomas Preston

*Breaking promises, breaking conventions: Post-teleological aesthetics in East and twenty-first-century Germany*

Advisor: Claudia Breger

## GERMANIC LANGUAGES (*continued*)

### **Hazel Rhodes**

*Tracing transgender feeling in sexual modernism: Gender and queer affinities between early twentieth-century German literature and science*  
Advisor: Claudia Breger

### **Chloe Vaughn**

*“Das Volk bilden”: The pursuit of Volkstümlichkeit by Berthold Auerbach, Heinrich Heine, and Johann Gottfried Herder*  
Advisor: Dorothea von Muecke

## HISTORY

### **Nader Atassi**

*The economic Nahda: Capital, empire, and economic thought in the modern Middle East, 1860-1920*  
Advisor: Marwa Elshakry and Rashid Khalidi

### **Susannah Glickman**

*Histories, tech, and a new central planning*  
Advisor: Matthew Jones

### **Barrie Blatchford**

*America’s acclimatization exchange: Animal acclimatization, settler colonialism, and the transformation of American nature, 1840-1975.*  
Advisor: Karl Jacoby

### **Lotte Houwink ten Cate**

*Mobilising against intimate violence: Feminism, social theory and the Dutch state in the 1970s and after*  
Advisor: Mark Mazower

### **Sohini Chattopadhyay**

*Dead labor: Urban technologies of mass death in colonial Bombay and Calcutta, the 1880s-1950s.*  
Advisor: Anupama Rao

### **Aleksandra Jakubczak-Gabay**

*(Sex)worker, migrant, daughter: The Jewish economics of sex and mobility, 1870-1939*  
Advisor: Rebecca Kobrin

### **Samuel Coggeshall**

*Revolutionary frontiers: British and Soviet missions and the making of national borders in the Russian Civil War*  
Advisor: Catherine Evtuhov

### **Randal Grant Kleiser**

*Exchanging empires: Free ports, reform, and revolution in the Atlantic world, 1750-1784*  
Advisor: Christopher Brown

### **Joslyn DeVinney**

*Mysore science: A connected history of eighteenth-century natural knowledge*  
Advisor: Manan Ahmed

### **Andrew Lebovich**

*The search for the straight path: Islamic reform and regional change in Algeria, Senegal, and Mali in the twentieth century*  
Advisor: Gregory Mann

### **Idriss Fofana**

*The labor question: Law, institutions, and the regulation of Chinese and West African international labor migration, 1600-1900*  
Advisors: Madeleine Zelin and Mamadou Diouf

### **David Lerer**

*Visions of popular financial internationalism in Europe and the United States during the interwar years*  
Advisor: Adam Tooze

### **Hongdeng Gao**

*From medical schools to free clinics: Health activism and education in New York’s Chinatown, 1950-1980*  
Advisor: Mae Ngai

### **Chengji Xing**

*Pacific crossings: The China Foundation and the negotiated translation of American science to China, 1913-1949*  
Advisor: Mae Ngai

### **Rebecca Glade**

*Sudanese political movements and the struggle for the state, 1964-1985*  
Advisor: Rashid Khalidi

### **Laura Wing Mei Yan**

*Making a country out of a harbor: The transnational everyday life of migrant port workers in Singapore, 1913-1972*  
Advisor: Manan Ahmed

## ITALIAN

### **Tylar Colleluori**

*Moderata Fonte's Tredici canti del Floridoro:  
Epic means, political ends*  
Advisor: Jo Ann Cavallo

### **Isabella Livorni**

*A reel in one's mind: Cultural and racial  
difference, technology, and bodies in Amelia  
Rosselli's early work, 1950-1964*  
Advisor: Elizabeth Leake

### **Luca Naponiello**

*Through the woods and underground: Italo  
Calvino between ecology and folklore*  
Advisor: Elizabeth Leake

## LATIN AMERICAN AND IBERIAN CULTURES

### **Nicole Basile**

*Recipes in many hands: Local networks and  
empirical knowledge in the recetarios of early  
modern Spain*  
Advisor: Jesús Velasco

### **Iuri Bauler Pereira**

*Latin American countercultures and the third  
world: Internationalism, geographic imagination  
and experimental practices (1968-1980)*  
Advisors: Graciela Montaldo and Ana Paulina  
Lee

### **Jennifer Calles-Izquierdo**

*Permutación y performance del cuerpo muerto:  
Materialidad, ciencia y consumo del cadáver en  
el arte latinoamericano del último fin de siglo*  
Advisor: Bruno Bosteels

### **Sara García Fernández**

*Dispositivos de exhibición de colecciones  
vivas: La contribución de zoológicos y jardines  
botánicos a la cultura visual transatlántica, siglos  
XIX-XXI.*  
Advisor: Graciela Montaldo

### **Juan Carlos Garzón Mantilla**

*Repleta est terra: Connected worldscapes and  
entangled chronotectures of early modern  
Andean historical cosmography (1550s - 1650s)*  
Advisor: Alessandra Russo

### **Katryn Williams Evinson**

*The spirit of sabotage: Contemporary art and  
political imagination in post-industrial Spain*  
Advisor: Bruno Bosteels

## MATHEMATICS

### **Tsz Kiu Aaron Chow**

*Ricci flow and positivity of curvature on  
manifolds with boundary*  
Advisors: Simon Brendle and Panagiota  
Daskalopoulos

### **Samuel DeHority**

*Toroidal algebra representations and equivariant  
elliptic surfaces*  
Advisor: Andrei Okounkov

### **Cailan Li**

*Enhanced Soergel diagrammatics for dihedral  
groups*  
Advisor: Mikhail Khovanov

### **Mrudul Thatte**

*Webs and foams of simple lie algebras*  
Advisor: Mikhail Khovanov

### **Haodong Yao**

*A Kudla-Rapoport formula for exotic smooth  
models of odd dimension*  
Advisor: Chao Li

### **Chilin Zhang**

*On some semi-linear equations related to the  
phase transition: Rigidity of global solutions and  
regularity of free boundaries*  
Advisor: Ovidiu Savin

## MIDDLE EASTERN, SOUTH ASIAN, AND AFRICAN STUDIES

### **Thaer AlSheikh Theeb**

*Colonization and capitalization: The production of class-effects in southeastern Syria*

Advisor: Joseph Massad

### **Prashant Iyengar**

*“A readable, interesting state”: The annual administration reports and the making of the modern Indian state (1855-1935)*

Advisor: Timothy Mitchell

### **Aseel Najib**

*Common wealth: Land taxation in early Islam*

Advisor: Wael Hallaq

### **Shaunna Rodrigues**

*Justifying constitutionalism: Worldmaking, anticolonial progress, and self-respect in India*

Advisor: Sudipta Kaviraj

### **Avirop Sengupta**

*Configurations of life: The pursuit and practice of ‘Indian’ biology, 1876-1964*

Advisor: Partha Chatterjee

## MUSIC

### **Makulomy Alexander-Hills**

*Engaging with musical theater practitioners’ vernacular musical knowledge as music-theoretical practice*

Advisor: Benjamin Steege

### **Callum Blackmore**

*Opera at the dawn of capitalism: Staging economic change in France and its colonies from the Regency to the Terror*

Advisor: Julia Doe

### **Kyle DeCoste**

*Imagining freedom: Black popular music and the poetics of childhood*

Advisor: Kevin Fellezs

### **Justin Gregg**

*Mahler, politicized: Musical diplomacy and internationalism in the 1920 Amsterdam Mahler festival*

Advisor: Walter Frisch

### **Calder Hannan**

*Tactus transformations in metal*

Advisor: Mariusz Kozak

### **Jonathan Ligrani**

*Manuscript culture and patrician identity in the Florentine madrigal*

Advisor: Giuseppe Gerbino

### **Cheng Lim**

*Music in, as, for, and through virtual spaces*

Advisor: Joseph Dubiel

### **Ian Sewell**

*When all you have is a hammer: Beyond Schenker’s Umlinie*

Advisor: Joseph Dubiel

### **Demetrius Shahmehri**

*Romanticism’s children: Nostalgia and fantasy in music from Schumann to The Legend of Zelda*

Advisor: Walter Frisch

### **Sonja Wermager**

*Robert Schumann and “the artist’s highest goal”: Religion, romanticism, and nation in the late choral works*

Advisor: Walter Frisch

### **Anya Wilkening**

*Degrees of separation: Intermusicality and intertextuality in medieval monophonic song*

Advisor: Susan Boynton

## MUSIC (DMA)

### **Danielle Dobkin**

*Dissolving sound: An analysis of the use of ephemerality as a metaphor in magnolias in bloom and weavings*

Advisor: Bradford Garton

### **Jessie Kevin Cox**

*Listening with the unknown: Unforming the world with slave ears and the musical works Not-In-Between (2020) The Sound of Listening (2020) The Sound of Music (2022)*

Advisor: George Lewis

### **Hannah Kendall**

*Cutting through and resisting the plantation machine in Elaine Mitchener's SWEET TOOTH and the musical work shouting forever into the receiver*

Advisor: George Lewis

## PHILOSOPHY

### **Adam Blazej**

*Kant's pedagogy of hope: A reading of the "doctrine of method" in the Critique of Practical Reason*

Advisor: Patricia Kitcher

### **Molly Gurdon**

*Neo-Aristotelian absolute prohibitions*

Advisor: Katja Vogt

### **Anthony Marsh**

*Misery and its escape: Thomas Aquinas and Teresa of Ávila on the bad life*

Advisor: Christia Mercer

### **William McCarthy**

*Higher-order logical pluralism as metaphysics*

Advisor: Justin Clarke-Doane

### **Shivani Radhakrishnan**

*What's false about false consciousness*

Advisor: Frederick Neuhauser

### **Helen Zhao**

*Science in a sexist society*

Advisor: Philip Kitcher

## PHYSICS

### **Niccolò Bigagli**

*Reaching the Bose-Einstein condensation of dipolar molecules: A journey from ultracold atoms to molecular quantum control*

Advisor: Sebastian Will

### **Ashley Bransgrove**

*Magnetic activity of neutron stars and black holes*

Advisor: Andrei Beloborodov

### **Barbara Cruvinel Santiago**

*Probing the circumgalactic medium through optical spectrography and future near-ultraviolet detector development*

Advisor: David Schiminovich

### **Augusto Ghiotto**

*Novel correlated quantum phases in moiré transition metal dichalcogenides*

Advisor: Abhay Pasupathy

### **Apoorv Jindal**

*Transport investigations of superconductivity in few-layered Td-MoTe2*

Advisor: Abhay Pasupathy

### **Ziyu Liu**

*Optical spectroscopy of interacting two-dimensional electron systems in semiconductor quantum wells*

Advisors: Aron Pinczuk and Corey Dean

### **Dhruv Desai**

*Rapid neutron-capture nucleosynthesis from the births and deaths of neutron stars*

Advisor: Brian Metzger

### **Emily Tiberi**

*Pathways towards a second generation 88Sr2 molecular clock*

Advisor: Tanya Zelevinsky

## PHYSICS *(continued)*

### **Simon Turkel**

*Scanning tunneling microscopy of three twisted graphene heterostructures and the two-dimensional heavy Fermion material CeSiI*

Advisor: Abhay Pasupathy

### **Daniel Williams**

*Catching some Z's: A search for three massive vector boson production at the LHC*

Advisor: Gustaaf Brooijmans

### **Pengqi Yin**

*Collectivity in large and small collision systems: Flow in Xe+Xe collisions and sensitivity to the presence of hard scatterings in pp collisions*

Advisor: Brian Cole

### **Wenkai Zou**

*Probing the substructure of large-radius jets in lead-lead collisions at the LHC*

Advisor: Brian Cole

## POLITICAL SCIENCE

### **Michael Auslen**

*Essays on media and public opinion in state and local politics*

Advisor: Justin Phillips

### **Elena Barham**

*Essays on informal institutions and violence in Mexico*

Advisor: Maria Victoria Murillo

### **Charleyne Biondi**

*In search of a political theory of the digital age: Technology and the social imaginary*

Advisor: Frederic Gros

### **Yujin Choi**

*Liberalism from the margins*

Advisor: Jean Cohen

### **Jaclyn Davis**

*Three essays on the historical legacies of ethnic fractionalization*

Advisor: Kimuli Kasara

### **Dylan Groves**

*Essays on media and accountability*

Advisor: Donald Green

### **Arnaud Maurel**

*Essays on the political economy of public finance*

Advisor: John Marshall

### **Benjamin Mylius**

*On human separatism*

Advisor: Jean Cohen

### **Adam Parker**

*Neither cogs nor wrenches: Workers, unions, and the political economy of automation*

Advisors: Jack Snyder and Nikhar Gaikwad

### **Jordan Perkins**

*Conservative jurisprudence and liberal constitutionalism*

Advisor: David Johnston

### **Paul Platzman**

*Democratic fault lines then and now: An exploration of longstanding and emerging threats to the fulfillment of democratic expectations by the American mass public*

Advisor: Donald Green

### **Norashiqin Toh**

*Legitimacy in contested spaces: Three papers on Southeast Asia*

Advisor: Andrew Nathan

### **Linan Yao**

*Popular propaganda in pop culture: How China sells its ideology*

Advisor: Donald Green

### **Ki Young Kim**

*Inclusive economic freedom through dependencies*

Advisor: David Johnston

## PSYCHOLOGY

### **Yaniv Abir**

*Principles of human information seeking and exploration*

Advisor: Daphna Shohamy

### **Celia Durkin**

*The beholder's share: Bridging art and neuroscience to study subjective experience*

Advisors: Daphna Shohamy and Eric Kandel

### **Jonathan Nicholas**

*Hindsight for foresight: Adaptive uses of memory in value-based decision making*

Advisor: Daphna Shohamy

### **Matthew Siegelman**

*Generating structured stimuli for investigations of human behavior and brain activity with computational models*

Advisor: Christopher Baldassano

### **Ovidia Stanoi**

*Social network effects on health and emotional wellbeing*

Advisor: Kevin Ochsner

### **Hannah Tarder-Stoll**

*Flexible representations of temporal structure guide multistep prediction*

Advisors: Mariam Aly and Christopher Baldassano

### **John Thorp**

*Memory updating and enhancement across scales of granularity*

Advisor: Lila Davachi

### **Yifan Yao**

*Discovery of multiple venous portal systems in the mammalian brain*

Advisor: Rae Silver

## RELIGION

### **Emily FitzGerald**

*Empty hands: Embodied imagination in non-duality*

Advisors: Mark Taylor and Bernard Faure

### **Michael Hammett**

*A creative tension: Anthropocentrism and the human-nonhuman boundary in Christian Europe, 1400-1700*

Advisor: Euan Cameron

### **Ishai Mishory**

*Codices saeculares: Five secular books printed by Jewish humanist Gershom Soncino, 1490-1534*

Advisor: Beth Berkowitz

### **Rohini Shukla**

*The Caitanya lineage in the seventeenth- and eighteenth-century Deccan*

Advisor: John Hawley

## SLAVIC LANGUAGES

### **Stephen Bruce**

*Fantastic empires: Imaginary travel in eighteenth- and nineteenth-century Russia*

Advisor: Irina Reyfman

### **Serhii Tereshchenko**

*Tropes of alterity in society and Polish science fiction (1957-1992)*

Advisor: Mark Lipovetsky

### **Ben Hooyman**

*The disordered era: Grotesque modernism in Russian literature, 1903-1939*

Advisor: Mark Lipovetsky

### **Elaine Wilson**

*The Soviet exodic: Resistance and revolution in Soviet Russian and Yiddish Literature, 1917-1935*

Advisor: Cathy Popkin

### **Tomi Haxhi**

*Present perfect: (Post)humanism and the search for the new man in Soviet and post-Soviet fantastika*

Advisor: Mark Lipovetsky

## SOCIOLOGY

### **Anthony Adams**

*Symbolic capitalism: Social justice discourse, inequality and the rise of a new elite*

Advisor: Shamus Khan

### **Alexander Aleksanyan**

*States, selves, and social welfare: The American therapeutic state in comparative perspective*

Advisor: Adam Reich

### **Jiyeon Chang**

*Reputation and generalization in social context: Turnout reporting and intergroup relations*

Advisor: Thomas DiPrete

### **Jonathan Cleveland**

*From Alfred Schutz to machine learning: Temporal orientation, meaning and social action*

Advisor: Peter Bearman

### **Estela Diaz**

*Parents and the priceless child in elite early childhood admissions*

Advisors: Tey Meadow and Shamus Khan

### **Anna Hidalgo**

*Surfing Desire: Transnational romance and fantasies in Máncora, Peru*

Advisor: Shamus Khan

## STATISTICS

### **Arnab Auddy**

*Large dimensional data analysis using orthogonally decomposable tensors: Statistical optimality and computational tractability*

Advisor: Ming Yuan

### **Pratyay Datta**

*Optimal inference with a multidimensional multiscale statistic*

Advisor: Bodhisattva Sen

### **Nicholas Galbraith**

*On some problems in transfer learning*

Advisor: Samory Kpotufe

### **Yilin Guo**

*Signal-to-noise ratio aware minimaxity and its asymptotic expansion*

Advisor: Arian Maleki and Haolei Weng

### **Julian Jürgenmeyer**

*Legitimation trials: The limits of liberal government and the federal reserve's quest for embedded autonomy*

Advisor: Gil Eyal

### **Katharine Khanna**

*Men's support for gender equality in the era of the stalled revolution*

Advisors: Maria Abascal and Shamus Khan

### **Greer Mellon**

*Local control and educational inequality: Three longitudinal, quantitative studies of school district governance in the United States*

Advisor: Thomas DiPrete

### **Nicholas Pang**

*The creation of American personal bankruptcy, 1880-1955*

Advisor: Joshua Whitford

### **Daniel Tadmon**

*The psychotherapeutic landscape and the social stratification of well-being*

Advisor: Peter Bearman

### **Zhen Huang**

*Nonparametric methods for measuring conditional dependence, multi-sample dissimilarity, and testing for symmetry*

Advisor: Bodhisattva Sen

### **Jialin Ouyang**

*On the multiway principal component analysis*

Advisor: Ming Yuan

### **William Palmer**

*Statistical methods for structured data: Analyses of discrete time series and networks*

Advisor: Tian Zheng

### **Jitong Qi**

*Process data applications in educational assessment*

Advisors: Jingchen Liu and Zhiliang Ying

## THEATRE

### **Anne Potter**

*The musical as history play: Form, gender, race, and historical representation*

Advisor: Jean Howard

### **Olivia Rutigliano**

*The performing detective: Spectacle and investigation in Victorian literature and theater*

Advisor: Julie Peters

### **Catherine Suffern**

*"Trapped in a [Black] box": Carcerality and claustrophobic dramaturgy on the British Stage, 1979-2016*

Advisor: Jean Howard

### **Anna Waller**

*Mass performance and the dancing chorus between the wars, 1918-1939*

Advisors: Hana Worthen and William Worthen



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*Questions about the program should be sent to:  
[gsas-convocation@columbia.edu](mailto:gsas-convocation@columbia.edu)*