

Duke  
UNIVERSITY



Sunday, May 12, 2024  
Page Auditorium

# Undergraduate Studies in Neuroscience Diploma Ceremony



TRINITY COLLEGE OF ARTS & SCIENCES  
Undergraduate Neuroscience



# ORDER OF CEREMONY

## Welcome

**Leonard White, Ph.D.**

Director, Undergraduate Studies in Neuroscience,  
Department of Psychology & Neuroscience  
Associate Professor, Departments of Neurology and Neurobiology

## Opening Reflections

**Christina Williams, Ph.D.**

Professor, Department of Psychology & Neuroscience

## Presentation of Diplomas

**Thomas Newpher, Ph.D.**

Associate Director, Undergraduate Studies in Neuroscience  
Associate Professor of the Practice, Department of Psychology & Neuroscience

**Leonard White, Ph.D.**

## Special Recognition

Outstanding Senior Thesis in Neuroscience Award

## Senior Remarks

**Julia Michelle Leeman, '24**

Faculty Scholar Recipient

## Closing Remarks

**Leonard White, Ph.D.**

*Immediately following the ceremony, please remain seated until all graduates and faculty have exited. Family and friends are invited to join outside to celebrate with lunch.*

# CLASS of 2024

## FIRST MAJORS IN NEUROSCIENCE

### Bachelor of Arts (AB)

Abel Abadi

Brianna Rose Cellini

Samantha Wentworth Chaney

Sofia O'Neal Fernandez

Ryann Jennison Giummo

Daniel Kyungyong Lim

Muhib Methani

Kimberly Noel Ross

Jacqueline Lara Wright

## Bachelor of Science (BS)

Marisella Adams-Grimaldi

Anu Radha Aggarwal

Isabella Jolie Almeida

Roshen Chetan Amin

Anna Rose Araujo

Dipali Arora

Jonah Ryan Berg

Erin Elizabeth Biddiscombe

Nikhil Chaudhry

Jessica Vera Chen

Gayatri Chintala

Julia Obeidallah Davis

Martha Klementyna Deja

Sriya Krishna Dhupati

Riley Kathryn Dinnell

Carmel Falek

Samuel Cambrian Faraguna

Brandon Arthur Francis

David Scott Frankel

Gabrielle Jean Fry

Xianglong Gao

Nitisha Gautam

Emily Caryn Gershowitz

Debosir Ghosh

Bridget Jane Gregory

Sofia Guerrero

Imani Phoenix Hall

Kassandra Miyoko Hamilton

Nathalie Rose Anne Hartman

Daisja Brienne Honorable

Cordelia Laura Britt Hume

Ali Sohail Jalal

Ty Anthony Johnson

Ryleigh Elise Katstra

Ja'nelle Zahra Kellam

Brendan Simmons Kelleher

Mira Kaur Khazanchi

Hannah Mirembe Kitakule

Rushil Knagaram

Da Eun Lee

Skylar Lee

Julia Michelle Leeman

Natalie Ann Lewis

Elise Hayley Mallon

Evan Reece McMahan

Maya Della Montgomery

Taylor Quynh Nhu Nguyen

Elizabeth Langston Owens

Stanley JongYup Park

Madeline Marie Poole

Valentina Ramirez

William Douglas Seabury Robertson

Alma Rosalia Rodriguez

Arielle Jane Rothenberg

Karen Xiuqin Ru

Taranjit Kaur Saggu

Anthony Salgado

Rachel Hope Schreiberstein

Nicole Arden Schwenk

Brooke Lauren Sevchik

Paige Alexis Sevchik

Olivia Simone Shamberger

Jennifer Brianna Smith

Heather Nicole Snook

Jared Shane Solon

Sophia Symone Sparrow

Megan Paige Stone

Heiley Tai

Michelle Annalin Tetro

Peyton Chen Thompson

Laura Wang

Michael Wang

Anqi Xie

Cynthia Jingyi Xu

Jiayi Xu

Athena Yao

Matthew Yuan

Nina Zhang

Yike Zhu



# SECOND MAJORS IN NEUROSCIENCE

Alexander Ryan Richardson

Joel Scott White

# INTERDEPARTMENTAL MAJORS

Arlo Stevens Henrikson

Aloye Oshotse



# GRADUATION WITH DISTINCTION IN NEUROSCIENCE

## **Roshen Chetan Amin**

*Adolescent Social Isolation Impacts the Development of Dopaminergic Circuitry  
within the Ventral Tegmental Area and Substantia Nigra of Female Rats*

Staci Bilbo, Ph.D.; Psychology & Neuroscience

## **Anna Rose Araujo**

*The Effect of Prenatal Toxin, Sleep Deprivation, and Social Stress on  
Neuroimmune Activation*

Staci Bilbo, Ph.D.; Psychology & Neuroscience

## **Dipali Arora**

*The Impact of ALS-Associated OPTN Mutants on Wild-Type OPTN*

Chantell Skye Evans, Ph.D.; Cell Biology

## **Jonah Ryan Berg**

*Neural Dynamics of Phonetic Adaptation under Different Attention Conditions*

Tobias Overath, Ph.D.; Psychology & Neuroscience

## **Nikhil Chaudhry**

*The N170 in Co-Occurring Autism and Attention-Deficit/Hyperactivity Disorder  
(ADHD)*

Kimberly Carpenter, Ph.D.; Psychiatry & Behavioral Sciences

## **Gayatri Chintala**

*Assessing the Efficacy of Immunotherapy Treatment in Mouse Models of Brain  
Metastasis*

Scott Richard Floyd, M.D., Ph.D.; Radiation Oncology

## **Julia Obeidallah Davis**

*The Role of Harsh Parenting and Maternal Depression on Executive Function in  
Early Childhood*

Kenneth A. Dodge, Ph.D.; Public Policy

**Martha Klementyna Deja**

*Neural Activity Dictates Interleukin-34 Expression in Brains of Adult Mice*  
Staci Bilbo, Ph.D.; Psychology & Neuroscience

**Sriya Krishna Dhupati**

*Development of the Optomotor Response in Dark-Reared Larval Zebrafish*  
Eva Aimable Naumann, Ph.D.; Neurobiology

**Carmel Falek**

*Childhood Trauma and Memory: Exploring the Time-Dependent Effects of Adverse Childhood Experiences on Episodic Memory Performance*  
Gregory Russell Samanez-Larkin, Ph.D.; Psychology & Neuroscience

**Sofia O'Neal Fernandez**

*Striatal SPNs Steer Forelimb Extension Direction*  
Henry Yin, Ph.D.; Psychology & Neuroscience

**Davey Frankel**

*Toward Elucidating Rsad1: Protocol Perspectives*  
William Gottschalk, Ph.D.; Neurology

**Gabrielle Jean Fry**

*Visual Artistic Expertise & Intrinsic Brain Activity*  
Edna Andrews, Ph.D.; Slavic & Eurasian Studies

**Xianglong Gao**

*The Role of miR-133a in Peripheral-to-Central Nervous System Signaling in Chronic Primary Pain Condition*  
Andrea Gail Nackley, Ph.D.; Anesthesiology

**Emily Caryn Gershowitz**

*Impact of Adolescent Social Isolation on Microglia-dopamine Interactions*  
Staci Bilbo, Ph.D.; Psychology & Neuroscience

**Sofia Guerrero**

*A Novel Link between Mitochondrial Energy Metabolism and Ubiquitin Conjugase Rad6*  
Gustavo M. Silva, Ph.D.; Biology

**Imani Phoenix Hall**

*Generation of Nuclear-Localized Rabies Virus for Dissection of Adult Cortical Circuits*

Dmitry Velmeshev, Ph.D.; Neurobiology

**Cordelia Laura Hume**

*Investigating a Potential Mechanism for the Progression of Alternating Hemiplegia of Childhood: Age-dependent Na<sup>+</sup>K<sup>+</sup>-ATPase Activity and Behavioral Symptoms in Mash1<sup>+/-</sup> (Atp1a3<sup>Mash1/+</sup>) mice*

Mohamad Mikati, M.D.; Pediatrics

**Ryleigh Elise Katstra**

*The Neural Impact of College Athletics: the Effect of Physical Activity on Resting State EEG*

Edna Andrews, Ph.D.; Slavic & Eurasian Studies

**Ja'nelle Zahra Kellam**

*Microglial Gene Network Analysis in the Nucleus Accumbens of Mice Prenatally Exposed to Diesel Exhaust Particles and Maternal Stress*

Staci Bilbo, Ph.D.; Psychology & Neuroscience

**Mira Kaur Khazanchi**

*Studying the Impact of Lung Inflammation on CNS Resident Cells*

Mari Shinohara, Ph.D.; Integrative Immunobiology

**Julia Michelle Leeman**

*Event-Related Potential Differences in Auditory Imagery of Speech Compared to Nonspeech*

Tobias Overath, Ph.D.; Psychology & Neuroscience

**Elise Hayley Mallon**

*The Discovery of Novel, Selective Human Olfactory Receptor 51E2 Antagonists: Implications in Olfaction and Beyond*

Hiroaki Matsunami, Ph.D.; Molecular Genetics & Microbiology

**Muhib Methani**

*Morphological Characterization of Calretinin Human Cortical Interneurons*  
Derek Southwell, M.D., Ph.D.; Neurosurgery

**Taylor Quynh Nhu Nguyen**

*Novel Combination Therapy for Medulloblastoma and other MYC-Driven  
Cancers: Targeting BRD4 in Hypertranscription States*  
Scott Richard Floyd, M.D., Ph.D.; Radiation Oncology

**Elizabeth Langston Owens**

*Understanding Brain Cancer with RNA Sequencing: A Single-Cell Approach*  
Mustafa Khasraw, M.D.; Neurosurgery

**JongYup Park**

*Learning Behavioral Sequences in a Cortico-striatal Network using Hebbian and  
Reward-based Learning*  
Nicolas Brunel, Ph.D.; Neurobiology

**Madeline Marie Poole**

*Associations between EEG microstates and self-compassion scores during mediation  
and rest*  
Moria Joy Smoski, Ph.D.; Psychiatry & Behavioral Sciences

**Valentina Ramirez**

*Elucidating the Molecular Mechanisms of Drp1 Regulation in Astrocyte  
Morphogenesis*  
Cagla Eroglu Ph.D.; Cell Biology

**Alexander Ryan Richardson**

*A Finite Element Analysis Model of Deep Brain Stimulation with Complex Lead  
Geometry*  
Warren Grill, Ph.D.; Biomedical Engineering

**Kimberly Noel Ross**

*The Role of the Neuropod Cell in Food and Obesity*  
Diego V. Bohorquez, Ph.D.; Gastroenterology

**Karen Xiuqin Ru**

*The Role of the Globus Pallidus Externa in Regulating Movement*  
Henry Yin, Ph.D.; Psychology & Neuroscience

**Rachel Hope Schreibstein**

*The Neurobiological Relationships among Sleep, Stress, and Physical Activity in College Students*  
Kimberly McNally; Recreation & Physical Education

**Brooke Lauren Sevchik**

*Influence of Threat and Anxiety on Cognitive Map Learning*  
Tobias Egner, Ph.D.; Psychology & Neuroscience

**Paige Alexis Sevchik**

*Down the Rabbit Hole: The Self-Perpetuating Properties of Curiosity and Its Influence on Memory*  
Rachel Alison Adcock, M.D., Ph.D.; Psychiatry & Behavioral Sciences

**Jared Shane Solon**

*Neurobehavioral Toxic Effect of Cadmium and Benzo[a]pyrene on Rats and Offspring*  
Edward Daniel Levin, Ph.D.; Psychiatry & Behavioral Sciences

**Megan Paige Stone**

*Muscarinic Influence on Cortical Interneuron Excitability*  
Lindsey Glickfeld, Ph.D.; Neurobiology

**Peyton Chen Thompson**

*Developing Viral Transsynaptic Tracing for Exploring Interneuron Transplantation in a Seizure Model*  
Derek Southwell, M.D., Ph.D.; Neurosurgery

**Anqi Xie**

*Impact of Perseverative Cognition on False Memory*  
Kevin LaBar, Ph.D.; Psychology & Neuroscience

**Cynthia Jingyi Xu**

*Role of RSAD1 and Mitochondrial Transporters in the SAM Cycle: A Possible Mechanism behind Tau Hyperphosphorylation in Alzheimer's Disease*

Carole Anne Colton, Ph.D.; Neurology, Behavioral Neurology

**Nina Zhang**

*Exploring ApoE-Mimetic Peptide CN-105 as a Potential Treatment for Spinal Cord Injury in Mice*

Timothy Faw, Ph.D.; Orthopaedic Surgery, Physical Therapy

**Yike Zhu**

*Incorporation of Bioactive Macromolecules to Granular Hydrogel Scaffolds for Ischemic Stroke Repair*

Tatiana Segura, Ph.D.; Biomedical Engineering

**GRADUATION WITH DISTINCTION  
OUTSIDE OF THE MAJOR**

**Natalie Ann Lewis**

*Thriving or Declining: Predicting Burnout in College Students*

Bridgette Hard, Ph.D.; Psychology & Neuroscience

**Jacqueline Wright**

*Examining Interactions between Race and County Type on Substance Use Disorder in Minoritized Populations*

Jay A. Pearson; Public Policy



Duke University  
Undergraduate Studies in Neuroscience  
Administration

**Leonard E. White, Ph.D.**

Director, Undergraduate Studies in Neuroscience,  
Department of Psychology & Neuroscience  
Associate Director, Duke Institute for Brain Sciences  
Associate Professor, Departments of Neurology and Neurobiology

**Thomas M. Newpher, Ph.D.**

Associate Director, Undergraduate Studies in Neuroscience  
Assistant Professor of the Practice, Department of Psychology & Neuroscience

**Tyler Lee**

Program Coordinator, Psychology & Neuroscience

**Mimi Jenness**

Staff Assistant, Psychology & Neuroscience

**Elizabeth J. Marsh, Ph.D.**

Professor and Chair, Department of Psychology & Neuroscience

**Kevin LaBar, Ph.D.**

Professor and Associate Chair,  
Department of Psychology & Neuroscience

# Photographs

As each graduate is handed their diploma, a picture will be taken by a professional photographer from Photo Specialties.

A free color proof will be sent to your current mailing address, including a password for online viewing. You are under no obligation to purchase prints.

To receive an email notification the moment your photos are online, please visit [www.photospecialties.com](http://www.photospecialties.com) to pre-register. If you do not receive a proof within a week of the ceremony, please contact [info@photospecialties.com](mailto:info@photospecialties.com) or call 919-967-9576.

**Become a member of our  
Neuroscience Alumni group!**





An interest in the brain requires  
no justification other than a  
curiosity to know why we are  
here, what we are doing here, and  
where we are going.

Paul D. MacLean

American physician and neuroscientist, 1913-2007



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