Kynon Jade Benjamin

K99 POSTDOCTORAL FELLOW · COMPUTATIONAL BIOLOGIST

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Research Interests: Neurological disorders, health disparities, bioinformatics, computational biology, machine learning

Summary_

COMPUTATIONAL GENETICIST with expertise in bioinformatics, machine learning, and molecular biology. Authored and/or contributed to 8 publications, 24 presented posters and presentations national, regional, and local meetings, receiving 6 awards including 3 first place. Experience in computational pipeline developed and implementation.

Education & Training

Lieber Institute for Brain Development; Johns Hopkins University, Departments of Neurology and Psychiatry

Baltimore, MD

POSTDOCTORAL FELLOW: "GENETIC AND ENVIRONMENTAL REGULATION OF GENE EXPRESSION IN NEUROPSYCHIATRIC DISORDERS"

Oct 2017 - Present

- Computational analysis in four postmortem brain regions for genetic and epigenetic ancestry (**Python, R, Machine learning**)
 - Identified and characterized ancestry-related expression differences in postmortem brain from AA and EA individuals
 - Designed, developed, and implemented GPU-based eQTL and fine-mapping analysis pipeline
 - Designed, developed, and implemented mash modeling pipelines for differential expression and eQTL analyses
 - Designed, developed, and implemented pipeline for determining genetic bases of ancestry-related expression differences
- · Computational analysis in postmortem brain for schizophrenia (Python, R, Linux, Machine learning)
 - Identified new insights into the role of the caudate in schizophrenia and potential new lines of treatment
 - Designed, developed, and implemented genotype imputation pipeline for eQTL analysis
 - Designed, developed, and implemented limma-voom differential expression pipeline for post-mortem samples
 - Designed, optimized, and implemented machine learning pipelines with feature reduction and ranking
 - Prioritized genes and genetic variants associated with schizophrenia risk via functional genomics (TWAS, Colocalization, SMR)
 - Examined dopamine system and the affect of antipsychotics within the caudate nucleus
 - Designed, developed, and implemented co-expression network analysis (Autoencoders, WGCNA)
- Human cell lines and organoids for neurodevelopment (Python, R, Linux)
 - Collaborated with bench biologist bulk and single-cell RNA-sequencing and genotyping
 - Designed, developed, and implemented single-cell RNA-sequencing pipeline
 - Designed and preformed genetic verification of postmortem dura-derived induced pluriponent stems cells
- NIH T32 Training Program in Psychiatry
- MOSAIC Postdoctoral Career Transition Award to Promote Diversity (K99/R00): MD0169640

Texas A&M University, Department of Veterinary Pathobiology

College Station, TX

 $Ph.D.\ in\ Genetics;\ Dissertation:\ ``Understanding\ the\ imprinting\ mechanism\ of\ \textit{UBE3A}\ for\ the rapeutic\ intervention''$

Aug 2012 - Aug 2017

- Computational and molecular characterization of the expression patterns of long non-coding RNA of *Ube3a/UBE3A* antisense and novel *Ube3a* isoform 4 in the imprinting of *Ube3a*
 - Analyzed more than **5 TB** of RNA-seq, stranded and unstranded, paired- and single-end datasets for mouse and human over a range of tissues and cell types for spatiotemporal regulation (**R**, **Linux**)
 - My pipeline reduced overall processing time by 90%, decreased storage by 60% by removing unnecessary intermediate conversion files, increased quality control and improved novel isoform detection
 - ANOVA, student's T-test, post-hoc Tukey's HSD statistical analysis conducted in R significantly reducing computational time from programs like PRISM and Excel
 - Utilized quantitative real-time PCR, Sanger sequencing, electrophoresis, and cloning for long non-coding RNA analysis and alternative splicing verification
- Developed interactive **R** script to analyze **1.2 TB** of fluorescent image based high-throughput screening data assay to reactivate paternal *Ube3a* allele in ES cell derived neurons for therapeutic intervention (**Stem cells, ImageJ, R**)
 - Developed **Shiny** web application for automatic high-throughput screen analysis and logistic regression algorithm for hit analysis (**Shiny**, **Octave**, **R**)
 - Supervised a team of undergraduates in molecular data acquisition and basic laboratory work
 - Utilized immunofluorescence microscopy and mouse embryonic stem cell technology
- Findings:
 - 1. Neuron-specific spatiotemporally regulated *Ube3a* antisense is an extensively processed transcript with 5' capping, 3' polyadenylation and alternative splicing
 - 2. Proposed new model for imprinting mechanism of *Ube3a* involving a temporally regulated novel paternal specific isoform, denoted isoform 4
 - 3. Developed high-throughput screening assay for drug discovery in ES cell-derived neurons

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B.S. IN BIOMEDICAL ENGINEERING; UNDERGRADUATE RESEARCH/SUMMER UNDERGRADUATE RESEARCH PROGRAM

Nov 2010 - Jun 2012

- Investigated increasing drug loading into nanofibers to determine the mechanical integrity of fibers as a function of percent drug
- Prepared, evaluated, and analyzed electrospun poly(ε-caprolactone) and poly(vinyl alcohol) nanofibers via SEM, fluorescence assays, pH change, and mechanical tester
- Developed semi-automatic MATLAB script for mechanical tester analysis reducing processing time by $\sim 70\%$
- Developed liquid chromatography mass spectrometry (LC-MS) method for the analysis of naproxen drug release from polymeric scaffolds in media and PBS
- Supervised and trained undergraduate and graduate students on nanofiber technique

Indiana University, Purdue University, Indianapolis

Indianapolis, IN

Aug 2009 - Jul 2010

LIFE-HEALTH SCIENCE INTERNSHIP INTERN

- Investigated cement degradation of dicalcium phosphate dihydrate for cranial implants
- Prepared, evaluated, and analyzed monocalcium phosphate monohydrate(MCPM)/ β -tricalcium phosphate cements and MCPM/nanocrystalline hydroxyapatite cements independently
- Developed skills in degradation analysis using X-ray diffraction, percent mass loss, pH change, and in vitro live/dead cell assay

Publications

Published

- 1. **Benjamin, KJM**, Chen, Q, Jaffe, AE, Stolz, JM, Collado-Torres, L, Huuki-Myers, LA, Burke, EE, Arora, R, Feltrin, AS, Barbosa, AR, Radulescu, E, Pergola, G, Shin, JH, Ulrich, WS, Deep-Soboslay, A, Tao, R, the BrainSeq Consortium, Hyde, TM, Kleinman, JE, Erwin, JA, Weinberger, DR, and Apuã CM Paquola. "Analysis of the caudate nucleus transcriptome in individuals with schizophrenia highlights effects of antipsychotics and novel risk genes". *Nature Neuroscience*. 2022. PMID: 36319771.
- 2. D'Ignazio, L, Jacomini, RS, Qamar, B, **Benjamin, KJM**, Arora, R, Sawada, T, Diffenderfer, KE, Pankonin, AR, Hendriks, WT, Bragg, DC, Paquola, ACM, and Jennifer A Erwin. "Variation in TAF1 expression in female carrier induced pluripotent stem cells and human brain ontogeny has implications for adult neostriatum vulnerability in X-linked Dystonia Parkinsonism". *eNeuro*. 2022. PMID: 35868859.
- 3. Sawada, T, **Benjamin, KJM**, Brandtjen, AC, Tietze, E, Allen, SJ, Paquola, ACM, Kleinman, JE, Hyde, TM, and Jennifer A Erwin. "Generation of four postmortem dura-derived iPS cell lines from four control individuals with genotypic and brain-region-specific transcrptomic data available through the BrainSEQ consortium". *Stem Cell Research*. 2020. PMID: 32446240.
- 4. Sawada, T, Chater, TE, Sasagawa, Y, Yoshimura, M, Fujimori, N, Tanaka, K, **Benjamin, KJ**, Paquola, ACM, Erwin, JA, Goda, Y, Nikaido, I, and Tadafumi Kato. "Developmental Excitation-Inhibition Imbalance Underlying Psychoses Revealed by Single-Cell Analyses of Discordant Twins-Derived Cerebral Organoids". *Molecular Psychiatry*. 2020. PMID: 32764691.

In Revision

- 1. **Benjamin, KJM**⁺, Arora, R⁺, D'Ignazio, L, Hyde, TM, Kleinman, JE, Weinberger, DR, Paquola, ACM, and Jennifer A Erwin. "Effects of sex on transcriptional associations with schizophrenia across dorsolateral prefrontal cortex, hippocampus, and caudate nucleus". [pre-print]. 2022. DOI: https://doi.org/10.1101/2022.09.30.22280452.
- 2. **Benjamin, KJM**, Katipalli, T, and Apuã CM Paquola. "dRFEtools: Dynamic recursive feature elimination for 'omics'. [pre-print]. 2022. DOI: https://doi.org/10.1101/2022.07.27.501227.
- 3. Sawada, T, Barbosa, A, Araujo, B, McCord, AE, D'Ignazio, L, **Benjamin, KJM**, Feltrin, A, Arora, R, Brandtjen, A, Kleinman, JE, Hyde, TM, Weinberger, DR, Paquola, ACM, and Jennifer A Erwin. "Ventral forebrain organoids derived from individuals with schizophrenia recapitulate perturbed striatal gene expression dynamics of the donors' brains". [pre-print]. 2022. DOI: https://doi.org/10.1101/2022.05.26.493589.

Submitted

1. **Benjamin, KJM**, Chen, Q, Eagles, NJ, Huuki-Myers, LA, Collado-Torres, L, Stolz, JM, Shin, JH, Paquola, ACM, Hyde, TM, Kleinman, JE, Jaffe, AE, Han, S, and Daniel R Weinberger. "Genetic and environmental contributions to ancestry differences in gene expression in the human brain". [pre-print]. 2023. DOI: https://doi.org/10.1101/2023.03. 28.534458.

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2. Tietze, E, Barbosa, AR, Euclydes, V, Cho, HJ, Lee, YK, Feltrin, A, van de Leemput, J, Di Carlo, P, Sawada, T, **Benjamin**, KJ, Brentani, H, Kleinman, JE, Hyde, TM, Weinberger, DR, Ursini, G, McKay, R, Paquola, ACM, Shin, JH, and Jennifer A Erwin. "Single-cell analysis of human trophoblast stem cell specification reveals activation of fetal cytotrophoblast expression programs including coronavirus associated host factors and human endogenous retroviruses". [pre-print]. 2020. DOI: https://doi.org/10.1101/2020.08.29.273425.

Scholarship

Extramural Funding

NIMHD K99MD0169640: MOSAIC Baltimore, MD

COMPREHENSIVE COMPUTATIONAL ANALYSIS OF GENETIC AND REGULATORY DIFFERENCES BETWEEN INDIVIDUALS WITH AFRICAN AND EUROPEAN ANCESTRIES ACROSS FOUR BRAIN REGIONS; \$947000

Dec 2021 - Nov 2023

NIMH T32MH015330: Fellowship

Baltimore, MD ANALYSIS OF THE CAUDATE NUCLEUS TRANSCRIPTOME IN INDIVIDUALS WITH SCHIZOPHRENIA HIGHLIGHTS EFFECTS OF

ANTIPSYCHOTICS AND NOVEL RISK GENES: SUPPORTS NIH LEVEL SALARY AND PROFESSIONAL DEVELOPMENT

Jun 2019 - May 2021

Great Lakes STEM Scholarship

College Station, TX

\$2500 AWARD

July 2014

Intramural Funding

CVM Advanced Developmental Training Travel Award

College Station, TX

UPTO \$2500 FOR TRAVEL EXPENSIVES

May 2015

CVM Graduate Student Research Trainee Grant

College Station, TX May 2014

\$5000 SEED MONEY RESEARCH AND SUPPLIES TO GENERATE PRELIMINARY DATA

College Station, TX

Texas A&M Institute for Genome Sciences and Society (WSGI) Graduate Traineeship COMPUTATIONAL ANALYSIS OF 50 IDIOPATHIC ANGELMAN SYNDROME PATIENTS; SUPPORTS HALF OF SALARY

Sep 2013 - Aug 2014

Presentations

Invited Talk/Oral Presentations

International Conference on Intelligent Biology and Medicine	Philadelphia, PA
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ORAL: "DRFETOOLS: DYNAMIC RECURSIVE FEATURE ELIMINATION FOR OMICS"

August 2022 New York, NY

MERIT Emerging Leaders Symposium

July 2022

INVITED TALK: "LARGE-SCALE COMPUTATIONAL GENOMICS: NEW, REUSE, AND DEVELOP"

Baltimore, MD

Johns Hopkins Postdoctoral Conference

ORAL: "COMPUTATIONAL ANALYSIS OF GENETIC AND TRANSCRIPTIONAL LANDSCAPES OF THE CAUDATE NUCLEUS IN SCHIZOPHRENIA"

April 2019

Defense Threat Reduction Agency

Fort Belvoir, VA

Invited talk: "Understanding the imprinting mechanism of *Ube3a* for therapeutic intervention"

July 2017

Center for Computational Biology & Bioinformatics (UCSD)

San Diego, CA June 2017

Invited talk: "Understanding the imprinting mechanism of *Ube3a* for therapeutic intervention" **Inova Translational Medicine Institute**

Falls Church, VA

Invited talk: "The Ube3a antisense transcript undergoes extensive processing and is spatiotemporally regulated in THE BRAIN"

June 2017

Laboratory of Molecular Virology & Pathogenesis (MHRP)

INVITED TALK: "THE Ube3a ANTISENSE TRANSCRIPT UNDERGOES EXTENSIVE PROCESSING AND IS SPATIOTEMPORALLY REGULATED IN THE BRAIN"

Silver Spring, MD

Texas A&M Student Research Week

ORAL: "INVESTIGATING NOVEL Ube3a ISOFORM 4 IN THE IMPRINTING OF Ube3a"

June 2017

March 2016

Genetics and Genomics (G2) Seminar Series

Invited talk: "Investigating novel Ube3a isoform 4 in the imprinting of Ube3a"

College Station, TX February 2016

College Station, TX

College of Veterinary Medicine (CVM) Neuroscience

Invited talk: "Neurodevelopmental Disorders: Instability of Chromosome 15011-013"

College Station, TX April 2015

Texas A&M Student Research Week

ORAL: "DEVELOPMENT OF EMBRYONIC STEM CELL-DERIVED NEURONAL CULTURES FOR HIGH-THROUGHPUT DRUG SCREENING"

College Station, TX February 2014

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Poster Presentations

American Society of Human Genetics	Los Angeles, CA
POSTER: "GENETIC AND ENVIRONMENTAL REGULATION OF CAUDATE NUCLEUS TRANSCRIPTOME IN SCHIZOPHRENIA"	October 2022
Society of Neuroscience	San Diego, CA
POSTER: "COMPUTATIONAL ANALYSIS OF GENETIC AND TRANSCRIPTIONAL LANDSCAPES OF THE CAUDATE NUCLEUS IN SCHIZOPHRENIA"	November 2018
Texas A&M Imaging Sciences Spotlight Series	College Station, TX
POSTER: "HIGH-THROUGHPUT DRUG SCREENING OF MOUSE EMBRYONIC STEM CELL-DERIVED NEURONS"	January 2016
College of Veterinary Medicine (CVM) Symposium	College Station, TX
POSTER: "HIGH-THROUGHPUT DRUG SCREENING OF MOUSE EMBRYONIC STEM CELL-DERIVED NEURONS"	January 2016
Texas A&M Health Science Center Symposium	College Station, TX
POSTER: "DEVELOPMENT OF EMBRYONIC STEM CELL-DERIVED NEURONAL CULTURES FOR HIGH-THROUGHPUT DRUG SCREENING"	April 2014
Texas A&M Genetics Graduate Student Recruiting Symposium	College Station, TX
POSTER: "DEVELOPMENT OF EMBRYONIC STEM CELL-DERIVED NEURONAL CULTURES FOR HIGH-THROUGHPUT DRUG SCREENING"	February 2014
National Society of Black Engineers Fall Regional Conference	Rochester, NY
POSTER: "DRUG LOADING OF NAPROXEN SODIUM ON THE DEGRADATION CHARACTERISTICS OF POLYCAPROLACTONE"	October 2011
Biomedical Engineering Society Annual Meeting	Hartford, CT
POSTER: "DRUG LOADING OF NAPROXEN SODIUM ON THE DEGRADATION CHARACTERISTICS OF POLYCAPROLACTONE"	October 2011
NSF LSAMP/RPI SURP	Troy, NY
POSTER: "DRUG LOADING OF NAPROXEN SODIUM ON THE DEGRADATION CHARACTERISTICS OF POLYCAPROLACTONE"	August 2011
Walter Lincoln Hawkins '32 Graduate Research Conference	Troy, NY
POSTER: "COMPARISON OF MCPM-TCP AND MCPM-HA CEMENT DEGRADATION"	April 2011
Purdue Biomaterials Research Symposium	West Lafayette, IN
POSTER: "COMPARISON OF MCPM-TCP AND MCPM-HA CEMENT DEGRADATION"	April 2010
Life-Health Sciences Internship Poster Session	Indianapolis, IN
Poster: "Comparison of MCPM-TCP and MCPM-HA cement degradation"	April 2010
Annual Glenn Research Center Summer Poster Session	Cleveland, OH
POSTER: "BIOFUELS AS AN ALTERNATIVE FUEL SOURCE FOR AVIATION"	August 2009
Panels	, and the second
Hopkins URM Accepted Applicants Virtual Visit	Virtual
PANEL: "HOPKINS GRADUATE ACCEPTED APPLICANTS VISIT FACULTY/FELLOWS PANEL"	March 2021
Johns Hopkins, School of Medicine; Second Look Visit	Baltimore, MD
PANEL: "JOHNS HOPKINS GRADUATE BIOMEDICAL EDUCATION PROGRAMS ACCEPTED APPLICANTS, FACULTY AND POSTDOCTORAL	•
FELLOWS PANEL"	March 2019
Johns Hopkins, School of Medicine; Biomedical Scholars Association Event	Baltimore, MD
PANEL: "NAVIGATING AND PREPARING FOR A CONFERENCE"	November 2018
Teaching	
LIBD rstats Club	Baltimore, MD
JOURNAL CLUB SESSION LEADER	Apr 2020 - Currently
 Suggested R programming related topics for discussion Developed lesson plan for R programming topics in bioinformatics Lecture history of session: https://bit.ly/30gpcZk 	,
Summer Undergraduate Research Virtual Exchange (SURVE)	Baltimore, MD
LECTURER	Jul 2020 - Aug 2020
Development learning objectives and activities for SURVECollaborative virtual lecturer	
Basic Science Institute (BSI)- Summer Internship Program (SIP)	Baltimore, MD

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• Primary instructor for virtual journal club, where I helped development 8-week journal club curriculum

Development activities for article critique, and demonstrated and evaluated presentations.

JOURNAL CLUB GROUP LEADER

Jun 2020 - Jul 2020

Texas A&M University, Department of Biochemistry

College Station, TX

GRADUATE TEACHING ASSISTANT Aug 2012 - Jun 2013

- · Laboratory instructor for Genetics course
- · Primary instructor for one class and assisted with second class each semester
- · Gave introductory lecture, followed by hands-on supervising of student experiements
- Evaluated student performance and assigned grades

Graduate Teaching Association/Academy for Future Facility

College Station, TX

STEERING COMMITTEE MEMBER

Jan 2014 - Jul 2016

- Worked collaboratively in the committee, where I helped run workshops and seminars for professional development, including but not limited to:
 - Philosophy of Teaching Statement
 - Teaching in Large Classes
 - Teaching with Technology
 - Developing Assessments
- Maintained and troubleshoot Blackboard, including but not limited to:
 - Generating assessments
 - Transferring 15 GB of data between website platforms
 - Troubleshooting any computer technological issues experienced by other committee members

Honors & Distinctions

- 2022 **Recipient**, International Conference on Intelligent Biology and Medicine: Travel Award
- 2021 MOSAIC (K99/R00) Fellow, NIMHD, Lieber Institute for Brain Development
- 2019 T32 Postdoctoral Fellow, Johns Hopkins School of Medicine, Department of Psychiatry
- 2019 **1**st **Place**, Johns Hopkins Postdoctoral Conference: Oral Presentation
- 2017 Scholar Finalist, Data Incubator
- 2016 **Nomination**, Excellence in Research at Texas A&M Student Research Week
- 2016 Honorable Mention, Texas A&M Imaging Sciences Spotlight Series
- 2015 **Recipient**, CVM Advanced Developmental Training Travel Award
- 2015 **Recipient**, Cold Spring Harbor *Drosophila* Neurobiology Course
- 2014 **Recipient**, Great Lakes STEM Scholarship
- 2014 4th Place, Texas A&M Genetics Graduate Student Recruiting Symposium Poster Presentation
- 2014 Recipient, CVM Graduate Student Research Trainee Grant
- 2013 **Recipient**, Texas A&M Institute for Genome Sciences and Society (WSGI) Graduate Traineeship
- 2011 Recipient, NSF funded LSAMP Research Experience for Undergraduates at RPI
- 2011 **1**st **Place**, Walter Lincoln Hawkins '32 Graduate Research Conference: Poster Presentation
- 2011 **1**st **Place**, National Society of Black Engineers Fall Regional Conference: Poster Presentation
- 2011 **Recipient**, Rensselaer's Professional Leadership Program
- 2009 **Recipient**, NASA Science Technology Institute Summer Scholars Program
- 2009 **Recipient**, Life Health Science Internship

Service

Professional Activities

Lieber Institute for Brain Development Postdoctoral Association (LIBD-PDA)

Baltimore, MD

PRESIDENT

Apr 2020 - Current

- · Established LIBD-PDA
- Obtained universal transportation benefit for all LIBD employees
- Obtained pipeline for joint appointments for all LIBD postdoctoral fellows
- Managed, planned, and organized first LIBD-PDA Virtual Retreat

Johns Hopkins Postdoctoral Association

Baltimore, MD

CO-PRESIDENT

Aug 2019 - Jul 2020

- Advocated for postdoc interests during COVID19 pandemic
- Secured funding for Annual Postdoctoral Conference
- Advocated for inclusion of postdocs in Faculty Learner Misconduct Policy
- Secured improvements for LGBTQ+ health insurance
- Advocated and advised JHU university wide postdoctoral database

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JHPDA Po	licy and Advocacy Committee	Baltimore, MD Aug 2018 - Jul 2019
OrganizedOrganized	d for minority mental health support d annual postdoctoral survey d seminars on domestic and international financial wellness d and secured improvements for postdoc childcare options	
Genetics ©	iraduate Student Association	College Station, TX
TREASURER		Jul 2013 - Jul 2015
	d meetings and annual symposium and maintained budget	
CVM Grad	uate Student Association	College Station, TX
TREASURER		Jul 2014 - Jul 2015
	d meetings and yearly outreach event and maintained budget	
National S	ociety of Black Engineers	Troy, NY
TREASURER		Jun 2011 - Jun 2012
	managed the transition from on-campus to off-campus banking system d system for reimbursements and invoicing	
 Wrote the 	inaugural handbook for the new treasurer position and maintained \$70000 annual budget	
Rensselae	r's Professional Leadership Program	Troy, NY
FELLOW		Aug 2011 - May 2012
Selective lea	adership program designed to bridge the gap between school and the workplace.	
Schizonbr	Journal Reviewer enia Bulletin	
ONE REVIEW P		2021-2022
		2021 2022
Profess	sional Activities	
2020-	President, Lieber Institute for Brain Development Postdoctoral Association	Baltimore, MD
2019-2020	Co-President , Johns Hopkins Postdoctoral Association	Baltimore, MD
2019–2020	Postdoctoral Representative , Faculty Senate; Johns Hopkins, School of Medicine	Baltimore, MD
2019–2020	Postdoctoral Representative , Postdoctoral Affairs Advisory Board	Baltimore, MD
2019-2020	Postdoctoral Representative , Institute for Excellence in Education Board of Directors	Baltimore, MD
2018-	Member, JHPDA Diversity Postdoctoral Alliance Committee	Baltimore, MD
2018-2019	Member/Co-Chair, JHPDA Policy and Advocacy Committee	Baltimore, MD
2018–2019	Postdoc Member, JHU University Health Services Committee	Baltimore, MD
2013-2016	Member, Graduate Teaching Association/Academy for Future Faculty Steering Committee	College Station, TX
2015-2016	Student Member, Genetics Graduate Student Association Academics Committee	College Station, TX
2014–2015	Student Member , Genetics Graduate Student Association Awards Committee	College Station, TX
Profess	sional Memberships	
Internatio	nal Conference on Intelligent Biology and Medicine	
MEMBER		2022-
American	Society of Human Genetics	
MEMBER		2022-
Society fo	r Neuroscience	
MEMBER		2017–
National S	ociety of Black Engineers	
MEMBER/CHA	PTER TREASURER	2010-2016

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