# Kynon Jade Benjamin

#### RESEARCH SCIENTIST · COMPUTATIONAL GENETICIST

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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 9 publications, 25 presented posters and presentations national, regional, and local meetings, receiving 6 awards including 3 first place. Experience in computational pipeline developed and implementation.

### Education

#### Lieber Institute for Brain Development & Johns Hopkins University School of Medicine

Baltimore, MD

POSTDOCTORAL FELLOWSHIP

Oct 2017 - Dec 2023

Primary Mentors: Drs. Shizhong Han and Daniel R Weinberger

**Texas A&M University** 

College Station, TX

DOCTOR OF PHILOSOPHY IN GENETICS

Aug 2012 - Aug 2017

Advisor: Dr. Scott V Dindot

Rensselaer Polytechnic Institute

Troy, NY

BACHELOR OF SCIENCE IN BIOMEDICAL ENGINEERING

Aug 2010 - May 2012

**Indiana University Purdue University Indianapolis** 

Indianapolis, IN

BACHELOR OF SCIENCE IN BIOMEDICAL ENGINEERING (transferred)

Aug 2009 - May 2010

# Research Experience \_\_\_\_\_

# Lieber Institute for Brain Development & JHUSOM, Departments of Neurology, Neuroscience, and Psychiatry

Baltimore, MD

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

Oct 2017 - Current

- 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
- Sex differences in schizophrenia across three brain regions (Python, R, Machine learning)
  - Identified sex-specific expression for schizophrenia in the postmortem brain
  - Trained, mentored, and supervised the differential analysis
  - Designed, developed, and implemented GPU-based sex interaction eQTL analysis
  - Designed, developed, and implemented fine-mapping and colocalization for sex-interaction eQTL
- · 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): K99MD0169640

#### Texas A&M University, Department of Veterinary Pathobiology

College Station, TX

Ph.D. IN GENETICS; DISSERTATION: ``Understanding the imprinting mechanism of UBE3A for therapeutic 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

# **Publications**.

#### Published/Accepted

- 1. **Benjamin, KJM**<sup>+</sup>, Arora, R<sup>+</sup>, Feltrin, AS, Pertea, G, Giles, H, Stolz, JM, D'Ignazio, L, Collado-Torres, L, Shin, JH, Hyde, TM, Kleinman, JE, Weinberger, DR, Paquola, ACM, and Jennifer A Erwin. ``How sex affects transcriptional associations with schizophrenia across the dorsolateral prefrontal cortex, hippocampus, and caudate nucleus''. *Accepted* at *Nature Communications*. 2024. DOI: https://doi.org/10.1101/2022.09.30.22280452.
- 2. **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'. *Accepted at Nature Neuroscience*. 2024. PMID: 37034760.
- 3. Tietze, E, Barbosa, AR, Araujo, BHS, Euclydes, V, Cho, HJ, Lee, YK, Feltrin, A, Spiegelberg, B, Lorenzetti, A, van de Leemput, J, Di Carlo, P, Sawada, T, Ursini, G, **Benjamin, KJ**, Brentani, H, Kleinman, JE, Hyde, TM, Weinberger, DR, McKay, R, Shin, JH, Paquola, ACM, and Jennifer A Erwin. ``Human archetypal pluripotent stem cell differentiates into trophoblast stem cells via endogenous BMP5/7 induction without transitioning through a naive state''. *Accepted* at *Scientific Reports*. 2024. DOI: https://doi.org/10.1101/2020.08.29.273425.
- 4. Sawada, T, Barbosa, A, Araujo, B, McCord, AE, D'Ignazio, L, **Benjamin, KJM**, Sheehan, B, Zabolocki, M, Feltrin, A, Arora, R, Brandtjen, A, Kleinman, JE, Hyde, TM, Bardy, C, Weinberger, DR, Paquola, ACM, and Jennifer A Erwin. ``Recapitulation of perturbed striatal gene expression dynamics of donor's brains with ventral forebrain organoids derived from the same individuals with schizophrenia'. *American Journal of Psychiatry*. 2023. PMID: 37915216.
- 5. **Benjamin, KJM**, Katipalli, T, and Apuã CM Paquola. ``dRFEtools: Dynamic recursive feature elimination for 'omics''. *Bioinformatics*. 2023. PMID: 37632789.
- 6. **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.
- 7. 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.

- 8. 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.
- 9. 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.

# Scholarship \_\_\_\_

Extramural Funding

Baltimore, MD NIMHD K99MD0169640: MOSAIC

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

Dec 2021 - Jul 2024

Baltimore, MD

NIMH T32MH015330: Fellowship

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

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

May 2014 College Station, TX

COMPUTATIONAL ANALYSIS OF 50 IDIOPATHIC ANGELMAN SYNDROME PATIENTS; SUPPORTS HALF OF SALARY

Texas A&M Institute for Genome Sciences and Society (WSGI) Graduate Traineeship

Sep 2013 - Aug 2014

# **Presentations**

#### **Invited Talk/Oral Presentations**

International Conference on Intelligent Biology and Medicine	Philadelphia, PA
ORAL: ``DRFETOOLS: DYNAMIC RECURSIVE FEATURE ELIMINATION FOR OMICS"	August 2022
MERIT Emerging Leaders Symposium	New York, NY
INVITED TALK: ``LARGE-SCALE COMPUTATIONAL GENOMICS: NEW, REUSE, AND DEVELOP''	July 2022
Johns Hopkins Postdoctoral Conference	Baltimore, MD

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

San Diego, CA

**Center for Computational Biology & Bioinformatics (UCSD)** 

INVITED TALK: ``UNDERSTANDING THE IMPRINTING MECHANISM OF Ube3a FOR THERAPEUTIC INTERVENTION'' June 2017

Falls Church, VA

Silver Spring, MD

**Inova Translational Medicine Institute** INVITED TALK: ``THE Ube3a ANTISENSE TRANSCRIPT UNDERGOES EXTENSIVE PROCESSING AND IS SPATIOTEMPORALLY REGULATED

June 2017

Laboratory of Molecular Virology & Pathogenesis (MHRP)

INVITED TALK: ``THE Ube3a ANTISENSE TRANSCRIPT UNDERGOES EXTENSIVE PROCESSING AND IS SPATIOTEMPORALLY REGULATED

June 2017

**Texas A&M Student Research Week** 

IN THE BRAIN"

IN THE BRAIN"

College Station, TX ORAL: ``Investigating novel Ube3a isoform 4 in the imprinting of Ube3a''

March 2016 College Station, TX

**Genetics and Genomics (G2) Seminar Series** 

INVITED TALK: ``INVESTIGATING NOVEL Ube3a ISOFORM 4 IN THE IMPRINTING OF Ube3a'' February 2016

College of Veterinary Medicine (CVM) Neuroscience	College Station, TX
Invited talk: ``Neurodevelopmental Disorders: Instability of Chromosome 15Q11-Q13''	April 2015
Texas A&M Student Research Week	College Station, TX
ORAL: ``DEVELOPMENT OF EMBRYONIC STEM CELL-DERIVED NEURONAL CULTURES FOR HIGH-THROUGHPUT DRUG SCREENING''	February 2014
Poster Presentations	
American Society of Human Genetics	Washington, DC
POSTER: ``GENETIC AND ENVIRONMENTAL CONTRIBUTIONS TO ANCESTRY DIFFERENCES IN GENE EXPRESSION IN THE HUMAN BRAIN''	November 2023
Biology of Genomes	Cold Spring Harbor,
POSTER: ``GENETIC AND ENVIRONMENTAL CONTRIBUTIONS TO ANCESTRY DIFFERENCES IN GENE EXPRESSION IN THE HUMAN BRAIN''	May 2023
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	-
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 - Current

- 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)

LECTURER

Jul 2020 - Aug 2020

- Development learning objectives and activities for SURVE
- Collaborative virtual lecturer

#### Basic Science Institute (BSI)- Summer Internship Program (SIP)

JOURNAL CLUB GROUP LEADER

Baltimore, MD Jun 2020 - Jul 2020

Baltimore, MD

- 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.

#### Texas A&M University, Department of Biochemistry

College Station, TX

Aug 2012 - Jun 2013

**GRADUATE TEACHING ASSISTANT** 

- 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**

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



#### **Professional Activities**

#### Lieber Institute for Brain Development Postdoctoral Association (LIBD-PDA) Baltimore, MD **PRESIDENT** Apr 2020 - Dec 2023 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 LGBTO+ health insurance Advocated and advised JHU university wide postdoctoral database **JHPDA Policy and Advocacy Committee** Baltimore, MD CO-CHAIR Aug 2018 - Jul 2019 · Advocated for minority mental health support Organized annual postdoctoral survey · Organized seminars on domestic and international financial wellness Advocated and secured improvements for postdoc childcare options **Genetics Graduate Student Association** College Station, TX Jul 2013 - Jul 2015 **TREASURER** · Organized meetings and annual symposium · Managed and maintained budget **CVM Graduate Student Association** College Station, TX TREASURER Jul 2014 - Jul 2015 · Organized meetings and yearly outreach event Managed and maintained budget Journal Reviewer **Bioinformatics Advances** ONE REVIEW PER YEAR 2022-2023 **Biological Psychiatry** ONE REVIEW PER YEAR 2022-2023 Schizophrenia Bulletin ONE TO TWO REVIEWS PER YEAR 2021-2023 **Committees President**, Lieber Institute for Brain Development Postdoctoral Association 2020--2023 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 Member, JHPDA Diversity Postdoctoral Alliance Committee 2018--2023 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 Student Member, Genetics Graduate Student Association Awards Committee 2014--2015 College Station, TX

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# **Professional Memberships**

# International Society for Computational Biology MEMBER 2022-American Society of Human Genetics MEMBER 2022-International Conference on Intelligent Biology and Medicine MEMBER 2022--2023 Society for Neuroscience MEMBER 2017--2020 National Society of Black Engineers MEMBER/CHAPTER TREASURER 2010--2016