

Kynon Jade Benjamin

ASSOCIATE 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

Texas A&M University

DOCTOR OF PHILOSOPHY IN GENETICS

Advisor: Dr. Scott V Dindot

College Station, TX

Aug 2012 - Aug 2017

Rensselaer Polytechnic Institute

BACHELOR OF SCIENCE IN BIOMEDICAL ENGINEERING

Troy, NY

Aug 2010 - May 2012

Indiana University Purdue University Indianapolis

BACHELOR OF SCIENCE IN BIOMEDICAL ENGINEERING (transferred)

Indianapolis, IN

Aug 2009 - May 2010

Postgraduate training

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

POSTDOCTORAL FELLOWSHIP

Primary Mentors: Drs. Shizhong Han and Daniel R Weinberger

Baltimore, MD

Oct 2017 - Dec 2023

Academic appointments

Lieber Institute for Brain Development

ASSOCIATE SCIENTIST

Baltimore, MD

Jan 2024 - Aug 2024

Northwestern University Feinberg School of Medicine

ASSISTANT PROFESSOR

Department of Psychiatry & Behavioral Sciences

Chicago, IL

Sep 2024 --

Honors & Distinctions

- 2024 **Recipient**, Human Genetics Scholars Initiative Program
- 2024 **Recipient**, Scholarships to Enhance and Empower Diversity Fellowship
- 2023 **Recipient**, Cold Spring Harbor Laboratory Scientific Writing Retreat
- 2022 **Recipient**, International Conference on Intelligent Biology and Medicine: Travel Award
- 2022 **Recipient**, MERIT Emerging Leaders Symposium
- 2021 **MOSAIC (K99/R00) Fellow**, NIMHD, Lieber Institute for Brain Development
- 2019 **T32 Postdoctoral Fellow**, Johns Hopkins School of Medicine, Department of Psychiatry
- 2019 **1st 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 **1st Place**, Walter Lincoln Hawkins '32 Graduate Research Conference: Poster Presentation
- 2011 **1st 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 - 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 LGBTQ+ 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

TREASURER

Jul 2013 - Jul 2015

- 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

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

Committees

2020--2023	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--2023	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

Journal Reviewer

PLOS One

TWO REVIEW PER YEAR

2023--2024

PLOS Genetics

ONE REVIEW PER YEAR

2023--2024

Bioinformatics Advances

ONE REVIEW PER YEAR

2022--2024

Biological Psychiatry

ONE REVIEW PER YEAR

2022--2023

Schizophrenia Bulletin

TWO REVIEWS PER YEAR

2021--2024

Scholarship

Extramural Funding

NIMHD K99MD0169640: MOSAIC

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

Baltimore, MD

Dec 2021 - Jul 2024

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

Baltimore, MD

Jun 2019 - May 2021

Great Lakes STEM Scholarship

\$2500 AWARD

College Station, TX

July 2014

Intramural Funding

CVM Advanced Developmental Training Travel Award

UPTO \$2500 FOR TRAVEL EXPENSIVES

College Station, TX

May 2015

CVM Graduate Student Research Trainee Grant

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

College Station, TX

May 2014

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

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

College Station, TX

Sep 2013 - Aug 2014

Research Projects

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 - Dec 2023

- 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 pluripotent 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

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. `` Analysis of gene expression in the postmortem brain of neurotypical Black Americans reveals contributions of genetic ancestry." *Nature Neuroscience*. 2024. PMID: 38769152.

2. **Benjamin, KJM**⁺, Arora, R⁺, Feltrin, AS, Perte, 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. ``Sex affects transcriptional associations with schizophrenia across the dorsolateral prefrontal cortex, hippocampus, and caudate nucleus." *Nature Communications*. 2024. PMID: 38730231.
3. Tietze, E, Barbosa, AR, Araujo, BHS, Euclides, 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." *Scientific Reports*. 2024. PMID: 38332235.
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 transcriptomic 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.

Preprints

1. **Kynon JM Benjamin**. ``RFMix-reader: Accelerated reading and processing for local ancestry studies." *bioRxiv*. 2024. DOI: <https://doi.org/10.1101/2024.07.13.603370>.
2. **Benjamin, KJM**, Sauler, M, Poonyagariyagorn, H, and Enid R Neptune. ``Cell type-specific expression of angiotensin receptors in the human lung with implications for health, aging, and chronic disease." *bioRxiv*. 2024. PMID: 38948835.
3. Evans, TA, Feltrin, AS, **Benjamin, KJ**, Katipalli, T, Hyde, TM, Kleinman, JE, Weinberger, DR, Paquola, ACM, and Jennifer A Erwin. ``Lifespan analysis of repeat expression reveals age-dependent upregulation of HERV-K in the neurotypical human brain." *medRxiv*. 2024. PMID: 38798538.

Presentations

Invited Talk/Oral Presentations

International Conference on Intelligent Biology and Medicine

ORAL: ``dRFETOOLS: DYNAMIC RECURSIVE FEATURE ELIMINATION FOR OMICS"

Philadelphia, PA

August 2022

MERIT Emerging Leaders Symposium

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

New York, NY

July 2022

Johns Hopkins Postdoctoral Conference

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

Baltimore, MD

April 2019

Defense Threat Reduction Agency

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

Fort Belvoir, VA

July 2017

Center for Computational Biology & Bioinformatics (UCSD)

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

San Diego, CA

June 2017

Inova Translational Medicine Institute

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

Falls Church, VA

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

June 2017

Texas A&M Student Research Week

ORAL: ``INVESTIGATING NOVEL *Ube3a* ISOFORM 4 IN THE IMPRINTING OF *Ube3a*''

College Station, TX

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 of Veterinary Medicine (CVM) Neuroscience

INVITED TALK: ``NEURODEVELOPMENTAL DISORDERS: INSTABILITY OF CHROMOSOME 15Q11-Q13''

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

Poster Presentations

American Society of Human Genetics

POSTER: ``GENETIC AND ENVIRONMENTAL CONTRIBUTIONS TO ANCESTRY DIFFERENCES IN GENE EXPRESSION IN THE HUMAN BRAIN''

Washington, DC

November 2023

Biology of Genomes

POSTER: ``GENETIC AND ENVIRONMENTAL CONTRIBUTIONS TO ANCESTRY DIFFERENCES IN GENE EXPRESSION IN THE HUMAN BRAIN''

Cold Spring Harbor, NY

May 2023

American Society of Human Genetics

POSTER: ``GENETIC AND ENVIRONMENTAL REGULATION OF CAUDATE NUCLEUS TRANSCRIPTOME IN SCHIZOPHRENIA''

Los Angeles, CA

October 2022

Society of Neuroscience

POSTER: ``COMPUTATIONAL ANALYSIS OF GENETIC AND TRANSCRIPTIONAL LANDSCAPES OF THE CAUDATE NUCLEUS IN SCHIZOPHRENIA''

San Diego, CA

November 2018

Texas A&M Imaging Sciences Spotlight Series

POSTER: ``HIGH-THROUGHPUT DRUG SCREENING OF MOUSE EMBRYONIC STEM CELL-DERIVED NEURONS''

College Station, TX

January 2016

College of Veterinary Medicine (CVM) Symposium

POSTER: ``HIGH-THROUGHPUT DRUG SCREENING OF MOUSE EMBRYONIC STEM CELL-DERIVED NEURONS''

College Station, TX

January 2016

Texas A&M Health Science Center Symposium

POSTER: ``DEVELOPMENT OF EMBRYONIC STEM CELL-DERIVED NEURONAL CULTURES FOR HIGH-THROUGHPUT DRUG SCREENING''

College Station, TX

April 2014

Texas A&M Genetics Graduate Student Recruiting Symposium

POSTER: ``DEVELOPMENT OF EMBRYONIC STEM CELL-DERIVED NEURONAL CULTURES FOR HIGH-THROUGHPUT DRUG SCREENING''

College Station, TX

February 2014

National Society of Black Engineers Fall Regional Conference

POSTER: ``DRUG LOADING OF NAPROXEN SODIUM ON THE DEGRADATION CHARACTERISTICS OF POLYCAPROLACTONE''

Rochester, NY

October 2011

Biomedical Engineering Society Annual Meeting

POSTER: ``DRUG LOADING OF NAPROXEN SODIUM ON THE DEGRADATION CHARACTERISTICS OF POLYCAPROLACTONE''

Hartford, CT

October 2011

NSF LSAMP/RPI SURP

POSTER: ``DRUG LOADING OF NAPROXEN SODIUM ON THE DEGRADATION CHARACTERISTICS OF POLYCAPROLACTONE''

Troy, NY

August 2011

Walter Lincoln Hawkins '32 Graduate Research Conference

POSTER: ``COMPARISON OF MCPM-TCP AND MCPM-HA CEMENT DEGRADATION''

Troy, NY

April 2011

Purdue Biomaterials Research Symposium

POSTER: ``COMPARISON OF MCPM-TCP AND MCPM-HA CEMENT DEGRADATION''

West Lafayette, IN

April 2010

Life-Health Sciences Internship Poster Session

POSTER: ``COMPARISON OF MCPM-TCP AND MCPM-HA CEMENT DEGRADATION''

Indianapolis, IN

April 2010

Annual Glenn Research Center Summer Poster Session

POSTER: ``BIOFUELS AS AN ALTERNATIVE FUEL SOURCE FOR AVIATION''

Cleveland, OH

August 2009

Panels

Hopkins URM Accepted Applicants Virtual Visit

PANEL: ``HOPKINS GRADUATE ACCEPTED APPLICANTS VISIT FACULTY/FELLOWS PANEL''

Virtual

March 2021

Johns Hopkins, School of Medicine; Second Look Visit

PANEL: ``JOHNS HOPKINS GRADUATE BIOMEDICAL EDUCATION PROGRAMS ACCEPTED APPLICANTS, FACULTY AND POSTDOCTORAL FELLOWS PANEL''

Baltimore, MD

March 2019

Johns Hopkins, School of Medicine; Biomedical Scholars Association Event

PANEL: ``NAVIGATING AND PREPARING FOR A CONFERENCE''

Baltimore, MD

November 2018

Teaching

LIBD rstats Club

JOURNAL CLUB SESSION LEADER

- Suggested R programming related topics for discussion
- Developed lesson plan for R programming topics in bioinformatics
- Lecture history of session: <https://bit.ly/30gpcZk>

Baltimore, MD

Apr 2020 - Current

Summer Undergraduate Research Virtual Exchange (SURVE)

LECTURER

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

Baltimore, MD

Jul 2020 - Aug 2020

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

JOURNAL CLUB GROUP LEADER

- 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.

Baltimore, MD

Jun 2020 - Jul 2020

Texas A&M University, Department of Biochemistry

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 experiments
- Evaluated student performance and assigned grades

College Station, TX

Aug 2012 - Jun 2013

Graduate Teaching Association/Academy for Future Faculty

STEERING COMMITTEE MEMBER

- 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

College Station, TX

Jan 2014 - Jul 2016