

Chino Kieran Eke

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EDUCATION

Princeton University

Bachelor of Arts in Neuroscience and Minor in Global Health and Policy

Princeton, NJ

August 2018 – June 2022

- Relevant Coursework: Brain Plasticity in Health, Epigenetics, Epidemiology, Computational Basis of Natural Intelligence, Computational Psychiatry, Bioethics, Cognitive Neuroscience, Psychopathology, Health Psychology, Molecular Biology, Organic Chemistry, Biochemistry, Physics, and Cyborg Psychology.

RESEARCH EXPERIENCE

Princeton Neuroscience Institute

Research Assistant – Professor Elizabeth Gould Lab

Princeton, NJ

January 2020 – May 2022

- Conducted behavioral manipulations utilizing two-trial social memory test in mice
- Performed retroviral immunofluorescent tracing via stereotactic injection and coronal sectioning via vibratome
- Analyzed regional distributions of PNNs in the DG, CA2, and vCA1 collected through confocal imaging

University of Tennessee Health Science Center

Research Assistant – Dr. Joan Han Lab & Dr. Jack Tsao Lab

Memphis, TN

June 2020 – January 2021

- Studied the effects of Loxapine and BDNF on the MC4R pathway and the regulation of hunger in mice
- Developed R-scripts for the visualization of ambient leptin and ghrelin levels in relationship to obesity
- Identified genetic homologs for neuropathic pain in *Drosophila* compared to genes expressed in humans
- Performed literature reviews on the effects of limb severance in the context of Acute Phantom Limb Pain

Champalimaud Centre for the Unknown

Research Assistant - Dr. Megan Carey Lab

Lisbon, Portugal

June 2019 – August 2019

- Constructed a split-belt treadmill apparatus to assess locomotion and generate gait impairments in mice
- Created a predictive model using Python to quantify gait-parameters in mice
- Performed craniotomies, optic fibers implantations, fluorescent retroviral injections, and histological staining

LEADERSHIP & ACTIVITIES

Princeton Neuroscience Network (PNN)

Events Committee Chair

Princeton, NJ

August 2019 – May 2022

- Organized quarterly coffee-chats and study breaks for perspective and current neuroscience members
- Coordinated an annual Research Symposium for graduate and undergraduate students
- Hosted the annual Brain Bee for local schools and both proctored and graded competition exams
- Analyzed regional distributions of PNNs in the DG, CA2, and vCA1 collected through confocal imaging

Health Professions Advising and University Health Services

Peer Health Advisor

Princeton, NJ

June 2020 – May 2022

- Coordinated the annual Safer Sexpo, an event dedicated to teaching safe sex techniques
- Fostered campus community through mental health initiatives including yoga and counseling sessions
- Created NapMaps - a collection of campus locations for studying, relaxing, and sleeping to help destress

PRINCO (Princeton University Investment Company)
Summer Analyst

Princeton, NJ
June 2021 – August 2021

- Assessed endowment performance in private equity and real assets by generating daily projection models
- Modeled future expenses incurred by existing venture managers and provided investment recommendations
- Assisted in Series A investment decisions several portfolio meetings
- Conducted a capstone project on European Venture Capital opportunity for the fintech sector

Princeton Public Health Review
Writer/Editor

Princeton, NJ
August 2019 – May 2021

- Wrote and edited a blog regarding different medical events impacting public health in the Princeton area
- Interviewed various members of the undergraduate community for health-related content

Matriculate
Advising Fellow

Princeton, NJ
August 2018 – May 2020

- Mentored high achieving, low-income high school students through the college application process
- Assisted in editing college and scholarship essays and applications
- Advised students on various approaches to the college process and served in place of a college counselor

Parkview Regional Medical Center
Volunteer

Fort Wayne, IN
January 2015 – August 2018

- Worked as a receptionist & assisted patients with check-out and provided wheelchair assistance
- Cataloged and organized medical supplies in the Ortho-Neural Trauma Unit
- Assisted with physical therapy sessions in an outpatient care physical rehabilitation facility
- Tutored students with reading disabilities (primarily dyslexia) on reading techniques

THESIS

Mechanisms of Social Memory Dysfunction in Mouse Models of Autism Spectrum Disorder

- *Advisors:* Elizabeth Gould & Emma Diethorn (Neuroscience PhD Candidate)
- *Project description:* An animal study exploring the significance of the extracellular matrix, specifically perineuronal nets (PNNs), in the CA2 and projections from the DG and supramammillary nucleus (SUM) on social memory development in two transgenic mouse models of ASD: *Shank3B* KO and *Fmr1* KO mice.

PRESENTATIONS

Center for Health and Wellbeing Research Symposium
First Author Presentation

Princeton, NJ

- “Error Signal Prediction and Asymmetry Analysis in Mice Locomotion” September 2019
- “MC4R Loxapine & Phantom Limb Pain” September 2021

Princeton Neuroscience Research Symposium
First Author Presentation

Princeton, NJ

- “Mechanisms of Social Memory Dysfunction in Mouse Models of ASD” March 2022

HONORS & FELLOWSHIPS

2019 Global Health: Le Bonheur Children’s Hospital Fellowship (\$1500) – Princeton University
2018 Center for Health and Wellbeing Champalimaud Fellowship (\$4800) – Princeton University

PUBLICATIONS & OPINIONATIVE WRITING

Eke, C., Kinney, C., Han, J. Loxapine regulation of MC4R pathway. *Manuscript in preparation.*

Eke, C. (April 2020). Mental Health & Social Distancing. https://medium.com/@ceke_632/mental-health-social-distancing-311308889bf0

Eke, C. (August 2020). A New Semester in a COVID World. https://medium.com/@ceke_632/a-new-semester-in-a-covid-world-b5746b6a2000

ADDITIONAL INFORMATION

Computational Skills: R, MATLAB, Julia & Python

Recreational Interests: Biking, Strength Training, Photography, and Dyslexia Tutoring