



Centers for Disease Control and Prevention

December 28, 2021

1600 CLIFTON ROAD
ATLANTA, GA
30329 USA

Application for CDC

To whom it may concern,

About Me

I'm currently a Ph.D. candidate in cognitive and computational neuroscience at the University of California, Berkeley. I have 7+ years of research experience, and leadership expertise in academia and non-profit work.

My research consists of hypothesis- and data-driven experimentation. I apply machine learning and statistics to large and complex databases to build models of brain function. I have a strong track record of publishing in high-impact, peer-reviewed scientific journals (>300 citations), presenting at research conferences (>10 proceedings), and making science accessible (>200 downloads of open-access datasets and code).

As a scientist, I believe that I have a responsibility to educate and inform. I have enjoyed teaching neuroscience and psychology to students from different backgrounds: undergraduates at UC Berkeley, incarcerated students at San Quentin State Prison, and elementary schoolchildren in the Oakland unified school district.

My research interests dovetail strongly with science and health policy, and over the past 5 years, I have used data-driven solutions to promote issues concerning equity, transparency, and accountability within academia and non-profit organizations.

Why CDC?

As a neuroscientist, I am motivated to work at the CDC and use my scientific and data-driven expertise to protect people from public health threats, research emerging diseases, and mobilize public health programs and policy.

The CDC is highly effective at communicating complex scientific findings to non-expert audiences, and in making sound decisions driven by ethical consideration and critical analysis. I have enormous admiration for the important work undertaken at the CDC, and it would be a fantastic opportunity for me to use my experience as a scientist, educator, and academic mentor to implement policies and programs that align with the CDC's mission to protect Americans from health, safety, and security threats.

The CDC also offers a unique opportunity for presidential management fellows to partake in professional development training, which would allow me to strengthen my career ambitions. Most importantly, I am very excited at the prospect of working alongside colleagues who, as well as being innovative thinkers, are creative, thoughtful, and driven.

Why Me?

I have experience in managing and leading technical and budgetary projects, and collaborating on cross-functional teams. Previous projects have included: 1) co-writing a budget proposal for an R35 grant that received \$5M in funding from the National Institutes of Health, 2) conducting budget analysis on graduate student stipends and using statistics and data visualization to alert departmental leadership to a funding discrepancy between clinical science and neuroscience students, resulting in a change in departmental policy, 3) successfully liaising with the UC Berkeley development office to connect the psychology department with external donors

in order to increase stipends for >100 psychology students, and 4) using data analytics to improve efficiency and effectiveness of annual fund-raising efforts for the UC Berkeley department of psychology.

My research and non-profit work has involved a high level of written and oral communication, including 1) publishing scientific results in high-impact, peer-reviewed journals, 2) preparing and delivering presentations at domestic and international conferences, 3) providing practical consultation to university leadership to inform policy changes, and 4) delivering educational lectures to undergraduate students at UC Berkeley and San Quentin State Prison.

I believe in the power of effective mentorship, and I have recruited many students from diverse backgrounds to work with me on scientific projects. My academic mentorship aims have been threefold: 1) educate and empower through positive reinforcement and critical feedback, 2) support and promote research/academic interests and provide guidance in career pursuits, and 3) supervise and edit written communication in the form of honors thesis projects, poster presentations, and/or scientific articles.

My experience has taught me to maintain productive and collaborative relationships with colleagues from all over the world. I regularly act as a liaison between team leaders in 1) establishing norms and guidelines for collaborative decision making, 2) serving as a functional representative on team projects, and 3) initiating progress evaluations to ensure adherence to project timelines.

Finally, I want to work on projects that matter both in terms of scale of impact, and importance to the wider community. I have far-reaching expertise that could be used to 1) assist program specialists with qualitative and quantitative data analyses, 2) maintain financial databases and systems to record and track agency obligations, and 3) prepare and present financial reports to stakeholders. I am very excited about a future in the federal government, and I am highly motivated to apply my quantitative and communication skills to high-impact projects that serve the American public.

Sincerely,

Maedbh King