



# **Reinventing Graduate Education for the 21<sup>st</sup> Century**

**Faculty Leadership Academy Group 2019**



# Our guiding question

<http://tiny.cc/FLA2019>

To remain a **forward-thinking, global leader** in graduate education, where should Berkeley be in **10 years** in the area of masters and doctoral education?

What do we need to do to get there?



# Our objectives

- Develop practical recommendations useful to the program sponsors and that will inform our own current and future leadership activities;
- Move beyond the narrative that there is not enough funding: what alternatives have we not yet considered? How can a compelling vision be leveraged to attract funding?
- Apply our skills, knowledge, and networks to enable this vision

# Our group

- Alessandra Lanzara, Physics
- Brandi Catanese, African American Studies and Theater, Dance, & Performance Studies
- Britt Glaunsinger, Plant & Microbial Biology
- Cathryn Carson, History and Data Science
- Cathy Choy, Ethnic Studies
- Emily Ozer, Public Health
- Karen Nakamura, Anthropology
- Kristin Persson, Materials Science & Engineering
- Linda Rugg, Scandinavian

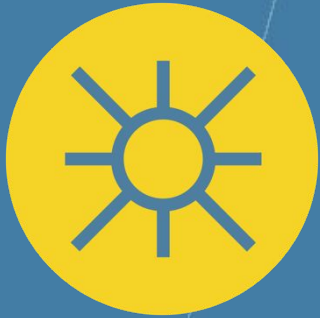
- Lisa Garcia Bedolla, Education
- Nathan Sayre, Geography
- Oliver Arnold, English
- Richmond Sarpong, Chemistry
- Rodolfo Mendoza-Denton, Psychology
- Sandra Smith, Sociology
- Sanjay Kumar, Bioengineering
- Serena Chen, Psychology
- Sonia Katyal, Law
- Zeus Leonardo, Education

# Our approach

<http://tiny.cc/FLA2019>



Mentoring



Public Purpose



Interdisciplinarity



# Mentoring - Vision

## A new approach to mentoring

- Holistic
- Prepare for and value wide-ranging careers
- Inclusive culture



# Currently...

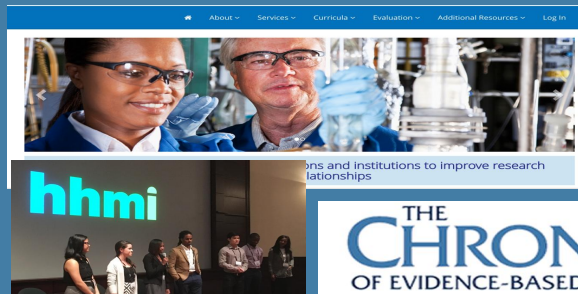
- **Resources for faculty** to become better mentors are sparse, and mentoring grad students, beyond training them to be researchers and teachers, is not incentivized.
- Changes in the employment landscape, the alienation many grad students from diverse backgrounds feel, and the record high levels of student anxiety/depression demand that we develop a new approach to mentoring that meets these challenges.





# Recommendations

- Mentorship Certificate Program
  - Intensive training
  - Developed by drawing on existing expertise
- Strong Incentives and Requirements
  - Training new hires
  - Mentoring Officers
  - Reviews
- A New Mentoring Center
  - Development opportunity



Berkeley Center for Teaching & Learning

GradPro for Faculty & Departments

Berkeley Graduate Division

qb3 Berkeley

Berkeley Home of the California Institute for Quantitative Biosciences

QB3-Berkeley Graduate and Postdoc Career Development

THE  
CHRONICLE  
OF EVIDENCE-BASED MENTORING

NRMN  
National Research Mentoring Network

Berkeley  
connect  
...you belong here





# Public Purpose - Vision

- Research *with*, rather than research *on*.
- Connected Community of public purpose graduate training across disciplines and units.
- Enhance public understanding of the contributions of Berkeley graduate training and research to improving local communities, state, & beyond.



# Currently....

- We lack pathways to rigorous training in public purpose research that are coordinated, sustained, and broadly accessible.
- The “public” did not see the broad value of what we bring to different spheres of their lives.
- *Major re-direction of research across campus to respond to COVID-19. How can we build on these & other public purpose efforts to support graduate training?*

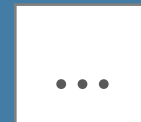


# Recommendations

- Identify leadership and coordinating efforts, building on intensive public purpose activities.
- Create an inventory and mapping resources.
- Develop cohorts of cross-trained public purpose graduate fellows.



Berkeley Public Service Center

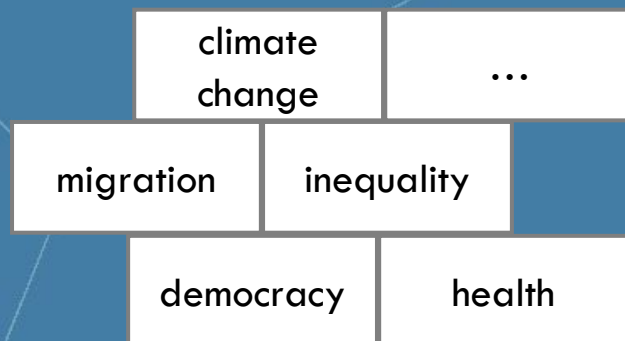






# Interdisciplinarity - Vision

- Major challenges of the 21<sup>st</sup> century lie at the interface between two or more fields.
- Interdisciplinarity represents one of the greatest sources of possible growth for new programs.
- New fields of scholarship have emerged, with massive student demand.





# Currently...

Huge growth in interdisciplinary programs such as political economy, cognitive science, global studies, and data science in the undergrad population.

1 / 3 of our Ph.D's go on to non-academic jobs, many of which benefit from interdisciplinary training.

Berkeley is inherently interdisciplinary – institutional support for centers, clusters, programs, etc. – as well as strongly disciplinary.



# Recommendations

- A comprehensive review and evaluation of existing programs
- Develop policies and procedures to enable interdisciplinarity in degrees.
- Opportunities in professional/academic programs (PhD/Masters, Masters/Masters)



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# Status of the report

<http://tiny.cc/FLA2019>

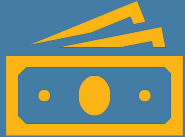
- Shared with Council of Deans
- Reviewed by Academic Senate
  - Graduate Council (GC)
  - Divisional Council (DIVCO)
- DIVCO's response provided to Vice Provost/  
Graduate Dean

Where do we have excitement?

Where do we have alignment?

How do we move forward now?

# Student-Centered Graduate Education



## Adequate, reliable doctoral funding

- Five-year guarantee at NSF level: \$34,000



## Dissertation completion support

- Includes summer funding for milestone completion



## More robust professional development support

- Improved mentorship
- Support for non-academic pathways
- Certification and other professionalization options

An abstract geometric pattern consisting of white lines and dots on a blue background. The pattern includes a large triangle on the left, a smaller triangle in the center, and a series of lines extending towards the right. The dots are located at the vertices of these triangles and at other points along the lines.

# Questions?