

## ABSTRACT

In the wake of COVID-19, there is an urgent need for a diverse public health work force to address problems presented or exacerbated by the global pandemic. Educational programs that create our work force both train and shape the makeup of access through graduate applications. The Graduate Record Exam has a number of standing issues, with additional barriers created by the pandemic. We trace the GRE waiver movement over several years, focusing on the gradual adoption in CEPH accredited programs and the rapid expansion of temporary waivers as a response to testing access. Going forward, we need to consider gaps in waivers during the pandemic and how this data can be used to shape our future use of the GRE.

## ISSUES WITH THE GRE

### Biased against women and people of color



- Large gaps in GRE scores between men, women, and URMs<sup>1,2,3</sup>
- Reducing focus of GRE scores in admissions greatly increases diversity of applicants<sup>4,5</sup>

### Cost barrier



- Financial burden: test costs costs \$205 (USA) - \$231.30 (China) and \$27 per school submission
- Additional \$150 for ETS to report only their highest cumulative score

### Poor predictor of academic success



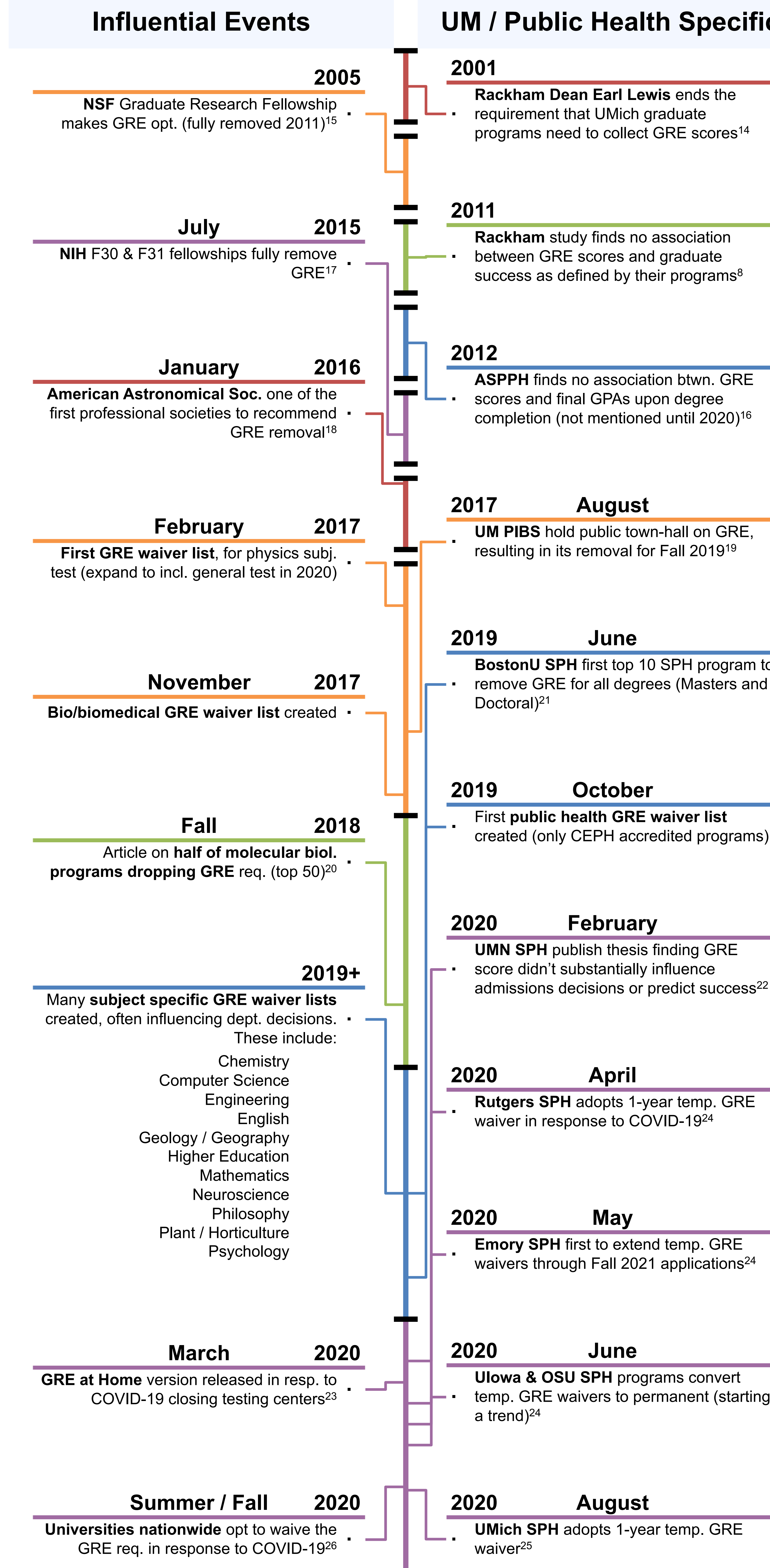
- Not a good predictor of academic success, correlating mostly with first semester grades<sup>6,7,8</sup>
- Several studies observed highest-ranked students had lowest GRE scores and students withdrawing from school had higher quantitative GRE scores<sup>9,10</sup>

### At home GRE exacerbates digital divide



- Additional requirements to take the test, including access to a desktop or laptop and stable internet connection<sup>11</sup>
- One in four American adults lack access to high-speed internet, 20% of students at a large Midwestern had difficulty accessing education technology<sup>12,13</sup>

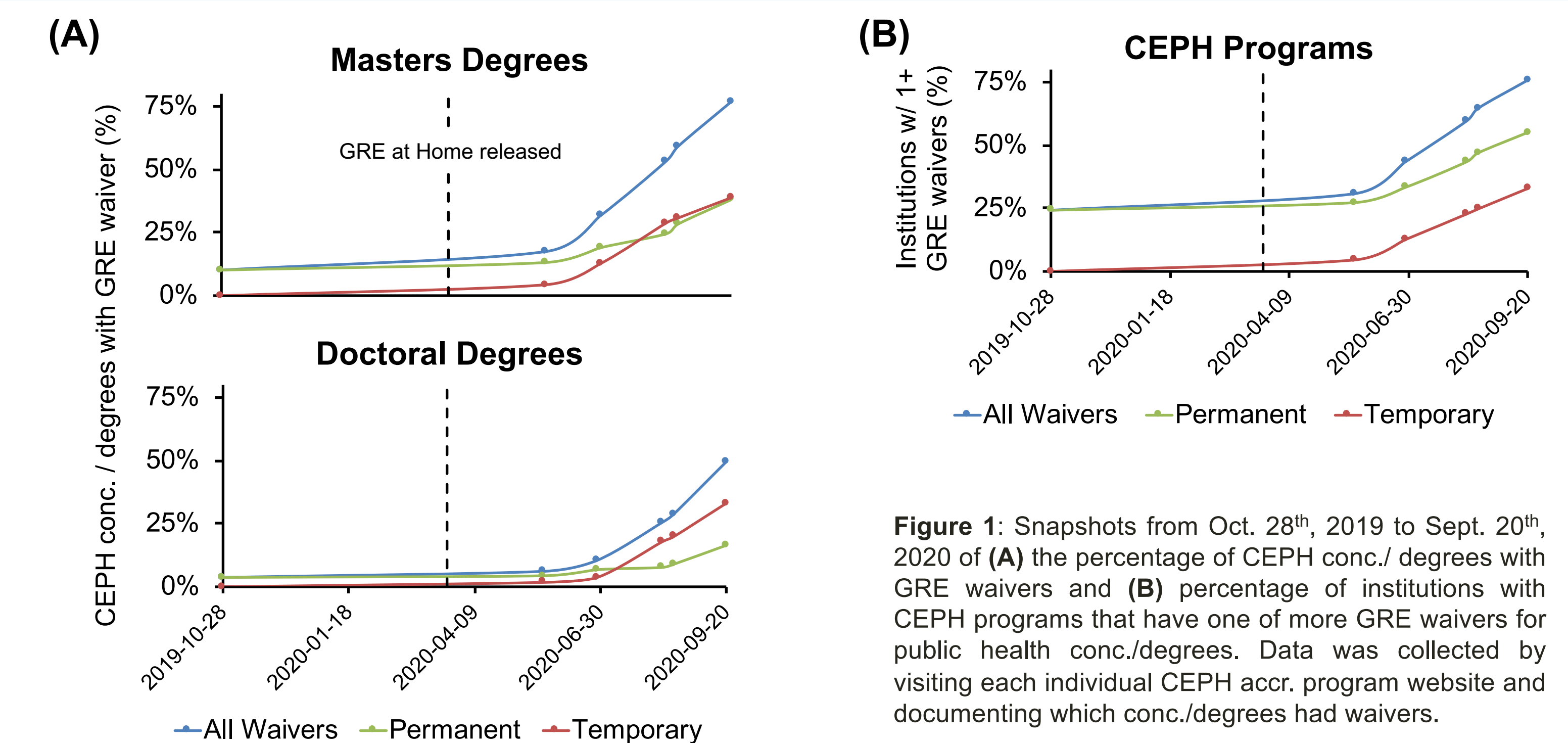
## GRE WAIVER HISTORY



## PUBLIC HEALTH GRE WAIVER SNAPSHOTS

### 1. GRE waiver coverage expanded rapidly due to COVID-19

- 825% increase in public health degrees/concentrations with GRE waivers since last year
- 76% of CEPH accredited programs currently offer at least one GRE waiver



### 2. GRE waiver coverage not evenly spread among degrees and concentrations

- 59% of biostatistics degree programs offer a GRE waiver, but only 23% are permanent
- 50% of doctoral degrees offer a GRE waiver and only 16% offer a permanent waiver

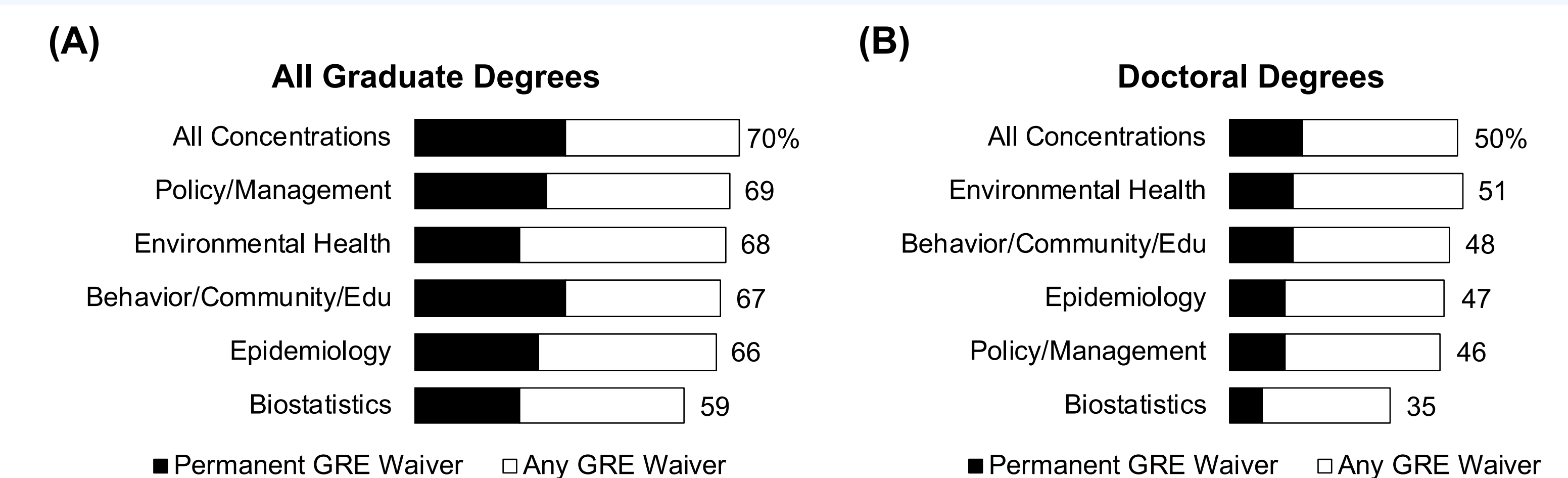


Figure 2: Percent degrees at CEPH acc. public health programs at U.S. universities that have GRE waivers as of Sept. 20th, 2020. Permanent GRE waivers are shown super imposed (black) over all GRE waivers (white). Percentage of degrees with any GRE waiver explicitly stated at the right of each bar. Not all degrees and concentrations were offered at each program.

## DISCUSSION / MOVING FORWARD

- Several SPH programs are now converting their temp. waivers to permanent
- Important to implement, at the very least, temporary GRE waivers currently
- Temp. waivers are a low stakes opportunity that can be used to test relevance
- We have the opportunity to test how removing a barrier to public health education will affect the professionals we create

## REFERENCES

- Miller C, et al. *Nature*. 2014; 510: 303-304.
- Cahn PS. *J Allied Health*. 2015; 44: 51-56.
- Wilson R. "Predicting graduate school success: A critical race analysis of the Graduate Record Examination." 2020. [Dissertation]
- Wilson MA, et al. *CBE Life Sci Educ*. 2019; 18: ar7.
- Wilson MA, et al. *CBE Life Sci Educ*. 2018; 17: ar27.
- Sealy L, et al. *PLoS One*. 2019; 14: e0201634.
- Moneta-Koehler L, et al. *PLoS One*. 2017; 12: e0166742.
- Curtin N, et al. "Predictors of Career Success among Rackham Doctoral Students." Rackham Report. 2011. [Unpublished]
- Weiner OD. *Mol Biol Cell*. 2017; 28: 429-430.
- Burton NW, et al. "Predicting long-term success in graduate school: A collaborative validity study." *ETS Research Report Series*. 2005; 1-61.
- Hu JC. "Graduate programs drop GRE after online version raises concerns about fairness." *Science Careers*. 2020. [Website]
- Anderson M. "Mobile technology and home broadband 2019." *Pew Research Center*. 2019. [Website]
- Gonzalez AL, et al. *Commun Res*. 2020; 47: 750-770.
- Moore B, et al. "A white paper presenting arguments against using Graduate Record Exam (GRE) scores for graduate admission." 2017. [Unpublished]
- NSF. "NSF 05-011: Graduate Research Fellowship Program (GRFP)." 2005.
- ASPPH. "GRE scores and public health admissions." Association of Schools and Programs of Public Health. 2020. [Website]
- NIH. "NOT-OD-15-120: Standardized test scores are no longer required in biosketches for individual fellowship applications (F30 and F31)." 2015.
- AAS. "AAS statement on limiting the use of GRE scores in graduate admissions in the astronomical sciences." *American Astronomical Society*. 2016. [Website]
- Barolo S, et al. "GRE scores will not be required in applications to PIBS, effective for the 2018-19 admissions season." *Michigan Med*. 2017. [Website]
- Langan K. *Science*. 2019; 364: 816.
- Galea S. "Rethinking our student admission requirements: A case for equity." *Boston University School of Public Health*. 2019. [Website]
- Farley M. "Is the GRE a predictor of student success outcomes? An analysis of the University of Minnesota's School of Public Health's Community Health Promotion program." 2020. [Thesis]
- ETS. "ETS introduces AI-Home solution for TOEFL iBT Test and GRE General Test amid coronavirus pandemic." *Educational Testing Service*. 2020. [Website]
- Millar JA. *Front Public Health Educ Promot*. 2020. [Accepted]
- UMSPH. "University of Michigan School of Public Health removes GRE requirement." *University of Michigan School of Public Health*. 2020. [Website]
- Lencki M. "Universities nationwide opt to waive the GRE requirement." *The College Fix*. 2020. [Website]