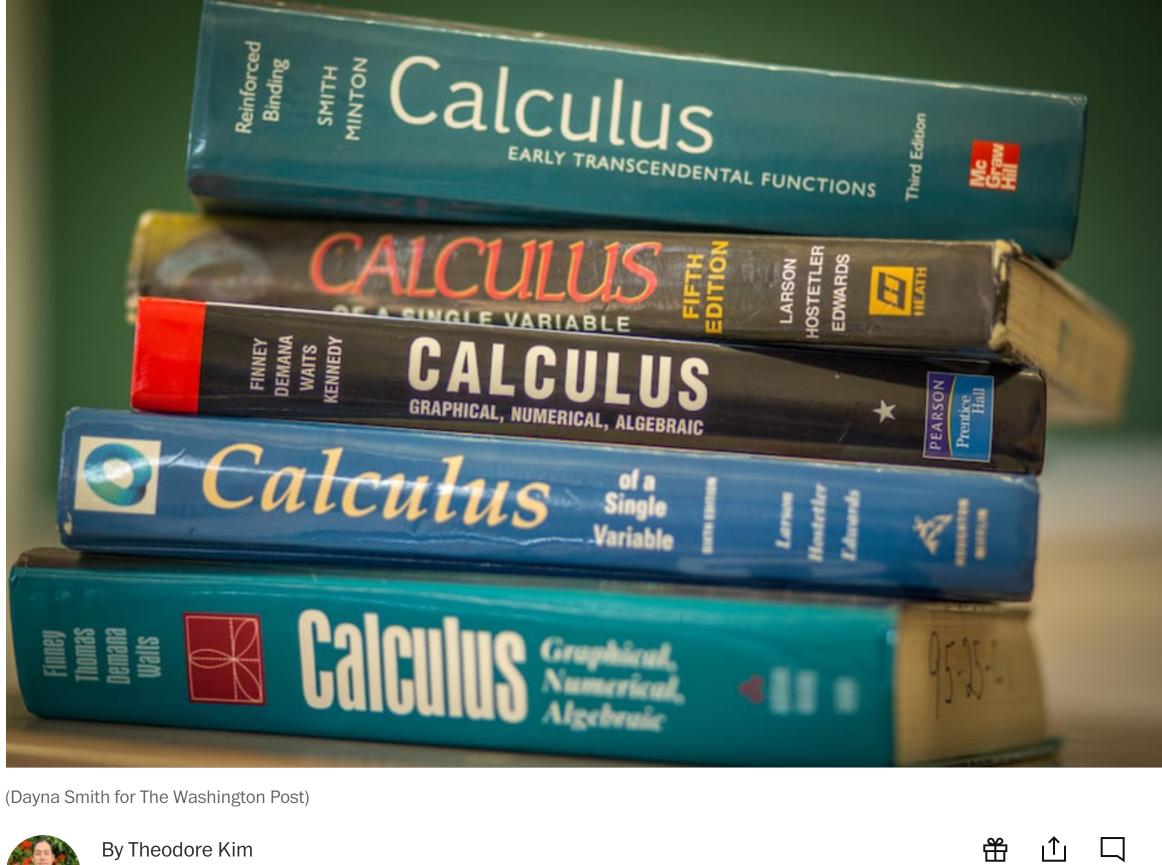
Made by History • Perspective

Racism in our curriculums isn't limited to history. It's in math, too.

The other 'CRT'



Theodore Kim is an associate professor of computer science at Yale

December 8, 2021 at 6:00 a.m. EST

Virginia's 2021 gubernatorial race revealed that the education wars will play a major role in politics for the foreseeable future. Debates over how history gets taught in schools and universities

University and a Public Voices fellow with The Op-Ed Project.

are increasingly framed in relation to "critical race theory," a term that has been used to mean

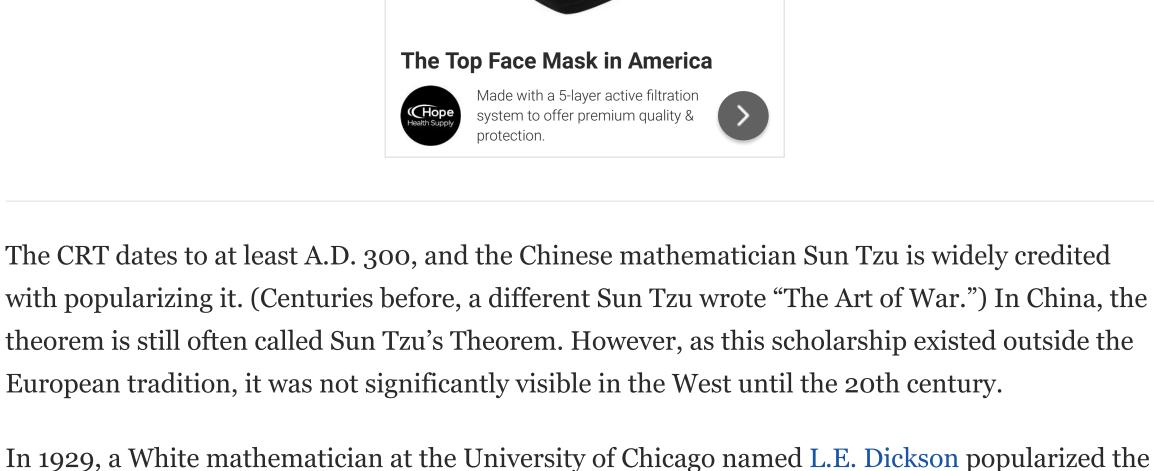
histories. These tensions become clear when teaching RSA encryption, the algorithm that runs on your phone to prevent hackers from stealing your credit card number. Learning about RSA encryption is usually preceded by lessons on Euclid's Algorithm and the Chinese Remainder Theorem (which, ironically, shares an acronym with critical race theory, CRT). The juxtaposition is jarring: The Greek scholar Euclid (300 B.C.) gets his name attached to an

almost anything. However, the conversations are difficult even in subjects such as math, which is

perceived, incorrectly, as a neutral space outside the reach of structural racism and national

algorithm, while a Chinese scholar's identity is erased, his work reduced to his nationality. This dichotomy reveals the racial assumptions hidden in seemingly apolitical subjects and how the biases of the past are embedded in the present.

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discovered Sun Tzu's work through the writings of Alexander Wylie, a British missionary who published translations of various Chinese texts in 1852. Dickson included Sun Tzu's name directly in his writings but then immediately referred to the work as the "Chinese problem of remainders" and, later on, the "Chinese remainder theorem." This name was then disseminated throughout the English-speaking world.

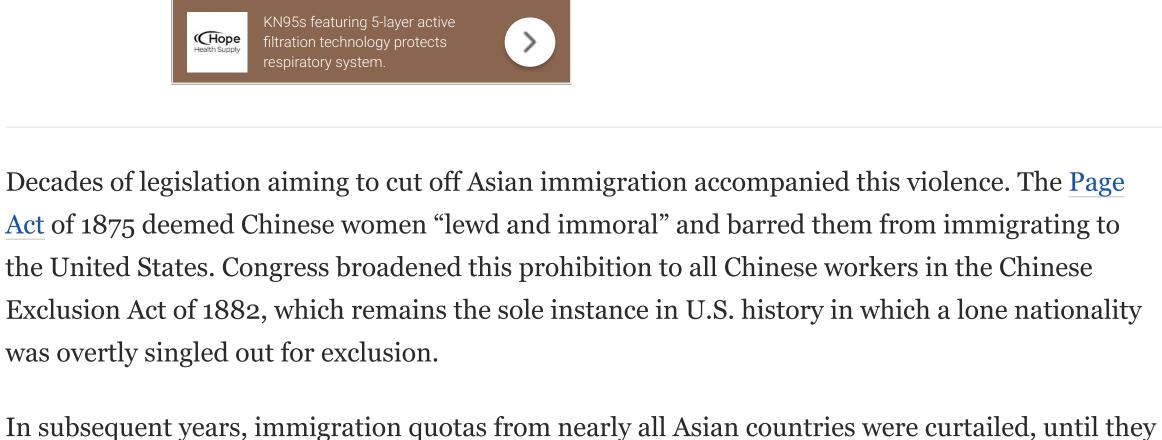
Why did Dickson remove Sun Tzu's name from the theorem? We can't know what was in his heart,

but we know that Dickson made the choice amid a surge of anti-Asian violence in the United

States stretching back to the late-19th century. For example, in Rock Springs, Wyo., in 1885, a

CRT in the English-speaking world and simultaneously stripped away Sun Tzu's name. Dickson

White mob torched the local Chinatown and killed 28 Chinese immigrants. Two years later, in the Snake River Massacre, the mutilated bodies of 34 Chinese miners were found floating down a river in Oregon, butchered by White miners upstream. Paralleling lynch mobs in the South, no one was ever brought to justice for these acts of mass murder.



Tzu's Theorem."

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Exclusion Act. The eugenic intent of this legislation was openly stated at the time, and it received strong public support from the Ku Klux Klan. Sen. David Reed (R-Pa.), one of the bill's architects, declared its intent to keep "American stock up to the highest standard." With this federal project to maintain U.S. racial purity as a backdrop, Dickson coined the theorem's new name. After World War II, the United States' emerging Cold War dominance in math and science drove a preference for American technical language. Dickson's erasure became

entrenched, making it all but impossible to find an English-language textbook that refers to "Sun

reached virtually zero with the passage of the Johnson-Reed Act of 1924, including the Asian

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Similar deployments of the term "Chinese" followed in Dickson's footsteps. In 1960, the Chinese

mathematician Mei-Ko Kwan posed the problem of finding the shortest closed walk on an

undirected graph. Your phone solves a related problem every time you ask for directions on

Kwan's paper was translated into English in 1962 and read by Jack Edmonds at the National

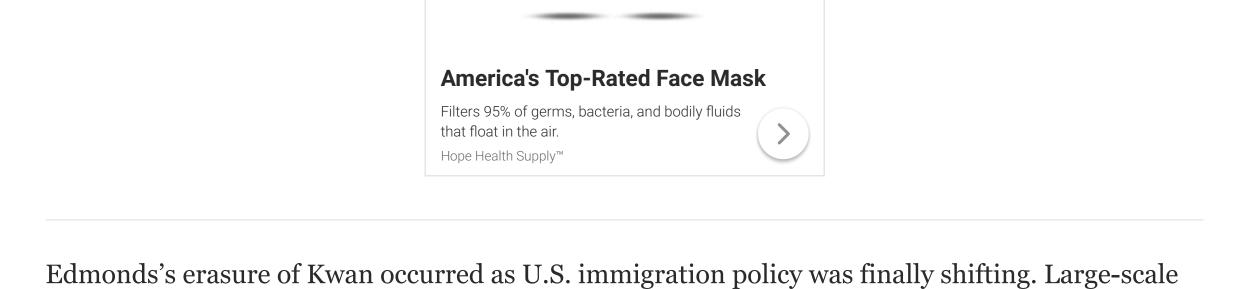
the formulation the "Chinese Postman Problem." This naming goes beyond obscuring Kwan's

contribution: It becomes ambiguous whether a Chinese scholar originated the problem, or

Bureau of Standards. Edmonds cited Kwan's work directly in subsequent scholarship but labeled

whether it is examining an imaginary postal worker who happens to be Chinese. There is no indication that naming it "Kwan's Problem" was ever considered, an abrupt departure from the Western tradition of attaching scholars' names to their discoveries. Such lapses rarely extend to White scholars: Edmonds himself is credited with both the Gallai-Edmonds theorem and the Edmonds-Karp algorithm.

[▷ X



Asian immigration to the United States resumed after 1965 when Congress passed the Hart-Celler

internationally visible displays of racial violence that year, including the Bloody Sunday march in

Selma, Ala., and a campaign of harassment against Malcolm X that ended in his assassination.

The immigration act became part of a wave of liberal legislative changes that included the Civil

A seemingly minor provision in Hart-Celler gave preferential access to Asians with "exceptional

ability in the sciences or the arts." This and other elements of U.S. immigration policy spurred a

demographic shift that continues to this day, including a wealth of Asian doctors and scientists

Act. The act's passage occurred against the backdrop of the civil rights movement and

Rights Act the year before and the Voting Rights Act two months prior.

immigrating to the United States.

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deployments of the term "Chinese" in scientific contexts, nor to anti-Asian violence in the broader

With this naming, the implicit dehumanization of the "Chinese Postman" became explicit. Instead

of referencing an Eastern scholarly tradition, "Chinese" was used to refer to a mindless horde of

imaginary restaurant patrons and hostesses, lacking all agency or humanity.

4 Warning Signs (#2 Is Scary!)

However, the inclusion of more Asian American scientists did not put an end to troubling

LIVER IN DANGER!



D X

These uses of "Chinese" can be found in math textbooks today. Allowing these racist namings to persist erases the fact that the construction of math and science has always been a global project. Rather than celebrating the innate curiosity that drives humanity to make discoveries around the

globe, these practices have historically enshrined the names of White men. The rest of the world is

constitute false monuments to White supremacy. A consistent application of the naming standard

The textbooks that showcase these names, while blurring out the contributions of others,

that yielded the moniker "Euclid's Algorithm" also yields the name "Sun Tzu's Theorem."

points toward a more complete understanding of our shared intellectual histories.

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Theodore Kim is an associate professor of computer science at Yale University and a Public Voices fellow with The Op-Ed Project.

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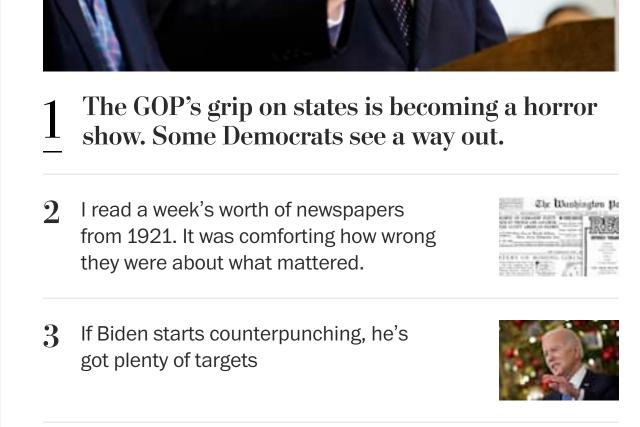
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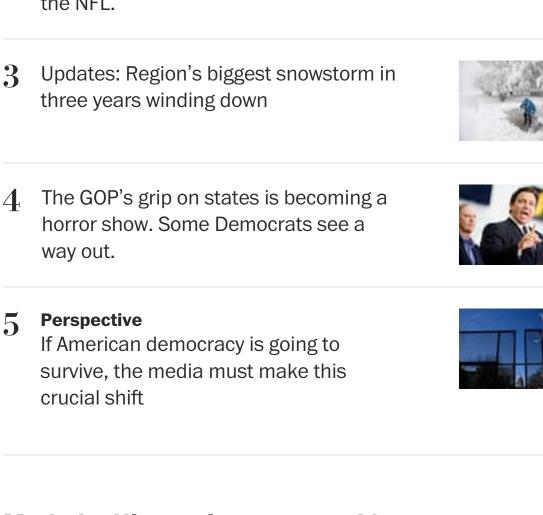
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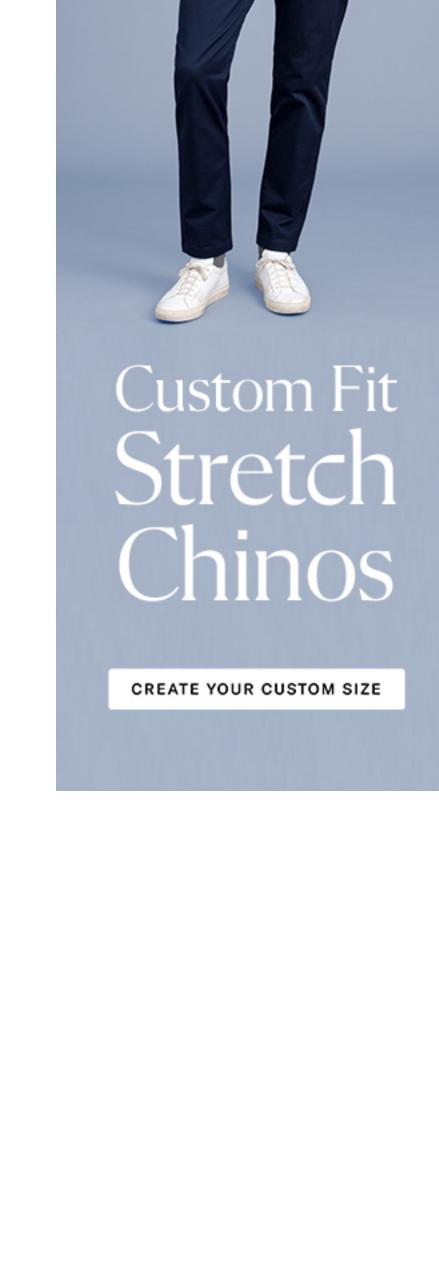


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