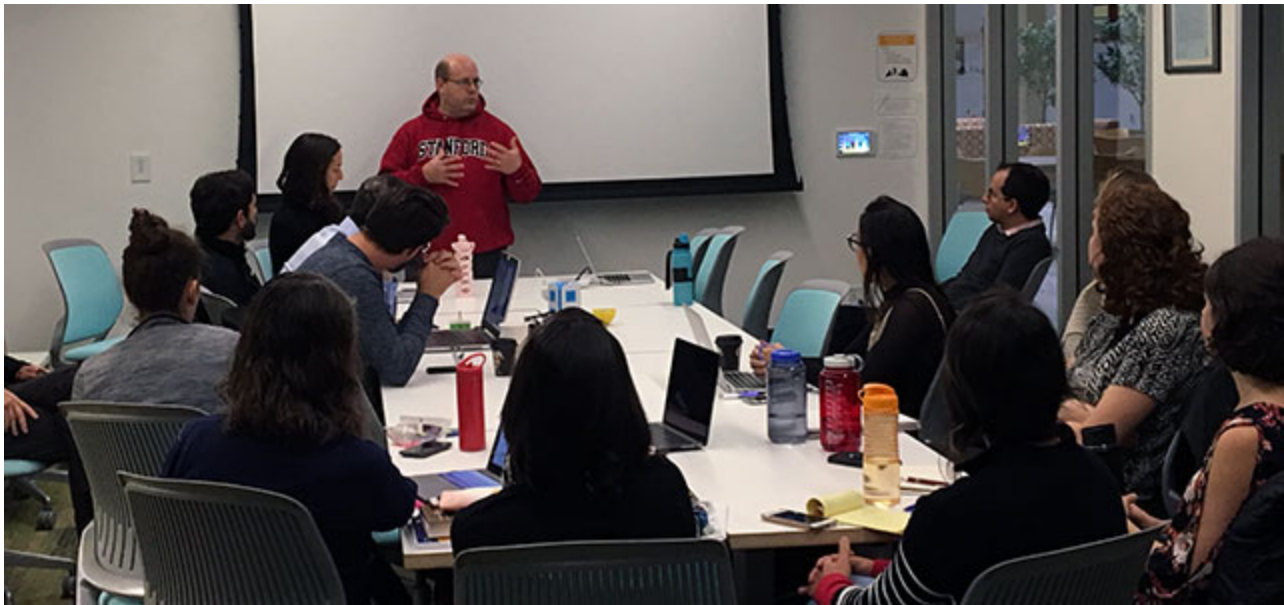




## Lemann Center Review April 2020

### Online education platforms scale college STEM instruction with equivalent learning outcomes at lower cost



Igor Chirikov, Tatiana Semenova, Natalia Maloshonok, [Eric Bettinger](#), René F. Kizilcec

Meeting global demand for growing the science, technology, engineering, and mathematics (STEM) workforce requires solutions for the shortage of qualified instructors. We propose and evaluate a model for scaling up affordable access to effective STEM education through national online education platforms. These platforms allow resource-constrained higher education institutions to adopt online courses produced by the country's top universities and departments. A multisite randomized controlled trial tested this model with fully online and blended instruction modalities in Russia's online education platform. We find that online and blended instruction produce similar student learning outcomes as traditional in-person instruction at substantially lower costs. Adopting this model at scale reduces faculty compensation costs that can fund increases in STEM enrollment.

[Read full paper](#)

Lemann Center Visiting Fellowship Program  
Application Process 2020 - 2021



*A [message](#) from David Plank, co-director of Lemann Center, on the Visiting Fellowship Program Application Process 2020 - 2021*

**Due to COVID-19, deadline has been extended July 15, 2020**

The application process for the Lemann Center Visiting Fellowship Program at Stanford University for the academic year of 2020-2021 has been announced.

The mission of the **Lemann Center Visiting Program** is to bring researchers from Brazil to the Lemann Center to offer individualized research training and/or to start collaborative research projects with Brazilian scholars to promote and improve Brazilian education. We provide opportunities for publishing original research in top-ranked journals; experiencing classes and research in one of the world's most renowned schools of education; and fostering interdisciplinary debate among researchers from different areas in the social sciences (including economics, political science, sociology, anthropology, geography, gender studies, ethnic studies, demography, and education technology, among other disciplines) who work in the field of Brazilian education.

[Apply here](#)

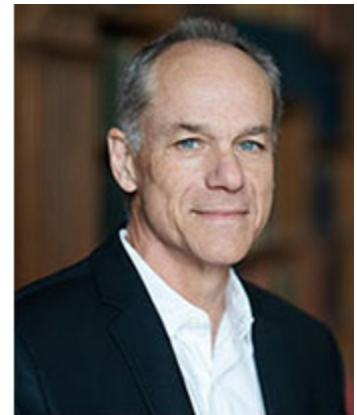
# From the Nature of Knowledge to the Knowledge of Nature: Reflections on the Teaching of Science in the Classroom and the Public Sphere

What I see in Nature is a magnificent structure that we can comprehend only very imperfectly, and that must fill a thinking person with a feeling of humility. A.E.



**Watch Marcelo Gleiser** discussing From the Nature of Knowledge to the Knowledge of Nature: Reflections on the Practice and Teaching of Science in the Classroom and the Public Sphere.

Marcelo Gleiser is the Appleton Professor of Natural Philosophy and a professor of physics and astronomy at Dartmouth College. He obtained his Ph.D. from King's College London and received the 1994 Presidential Faculty Fellows Award from the White House. He is a Fellow of the American Physical Society. He is the 2019 Templeton Prize Laureate, an honor he shares with Mother Teresa, Archbishop Desmond Tutu, the Dalai Lama, and scientists Freeman Dyson and Martin Rees.



## Do teachers' mindsets affect pedagogical practices? A randomized intervention in a socially vulnerable context

**Watch Tassia Cruz**, Professor of Fundação Getulio Vargas and Lemann Center first PhD's student, discusses her findings on "Do teachers' mindsets affect pedagogical practices? A randomized intervention in a socially vulnerable context".

This paper provides original evidence on the effects of teachers' mindsets on pedagogical practices from a randomized controlled trial in Rio de Janeiro. The intervention took the form of workshops aimed at building the belief that intelligence is not a fixed trait, and collectively developing ways to bring said belief into the classroom.





LEMANN-BRAZIL CAMPUS  
AMBASSADORS PROGRAM

**Opportunity for Brazilian Graduate Students: professional development, connections, and support in your next steps after Stanford**

Ana Machado, MA Candidate in Policy, Organization and Leadership Studies 2020 and Lemann Fellow, was selected as the Lemann Campus Ambassador at Stanford. She is working closely with the Lemann Foundation to provide professional opportunities for Brazilian students who wish to contribute to social change in Brazil.

The Lemann Foundation, through the Lemann Ambassador program, wants to support Brazilian students at Stanford in their return to Brazil, engaging in jobs that contribute to social development. To participate, fill out this form informing about your interests and professional aspirations: <https://forms.gle/UksQr2N3i2QPVL8a7>

If you have any questions or suggestions, contact [anamach@stanford.edu](mailto:anamach@stanford.edu)

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