

UPCOMING SPEAKER PANEL

Hosted by Discovery Cube OC

Featuring Prerna Srigyan

UCI PhD student in the Department of Anthropology



Prerna Srigyan

October 8th at 8:30 am

Learn and explore a unique perspective on non-traditional STEM
paths in college with STEM-adjacent majors

CHEMISTRY TO ANTHROPOLOGY: WHY? HOW? SO WHAT?

Prerna Srigyan
Ph.D. Candidate
UC Irvine Anthropology
UCI EcoGovLab



October 1, 2022: "Toxic Tour" in Torrance, California

Research, education, and collaboration for next-generation environmental governance

Twitter: @ecogovlab

In your opinion, what makes science a special way of knowing, if at all?



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One word answer: What word comes to your mind when you think about "culture"?



What is the connection between science and culture based on what you see around you, online, your experience?



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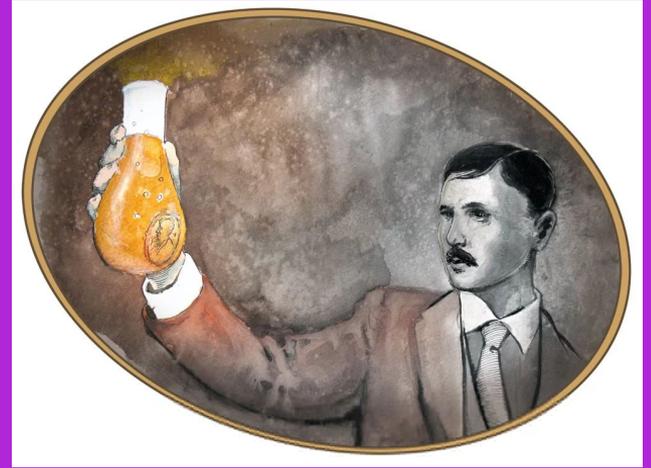
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IN WHAT CULTURE...

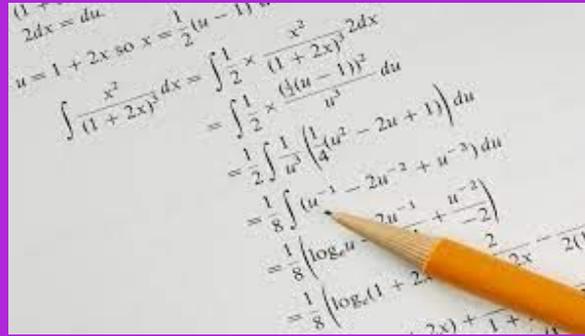


Do we learn
about aqua
regia...

But not about how
one Hungarian
chemist named
Georgy de Hevesy
used aqua regia to
dissolve Nobel Prize
gold medals of
Jewish physicists
fleeing Nazi Europe?

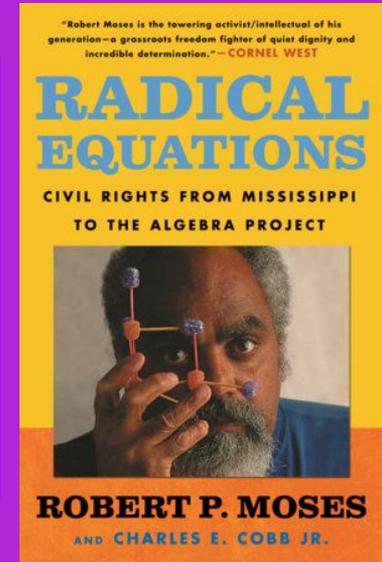


IN WHAT CULTURE...



Do we learn
about
algebra...

But not about
The Algebra
Project led by
civil rights
leader Bob
Moses?

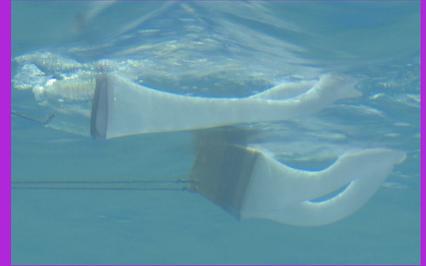


IN WHAT CULTURE...



Do we learn
about plastic
pollution...

But not about indigenous
scientist Max Liboiron
who invented DIY tools to
clean plastic from
oceans—they run a
“feminist, anti-colonial
science lab”



UNLEARNING



SCHOOL

Trained to be competitive & high-performing; hunger for learning, reading, writing

COLLEGE

Learned about the tensions between science and society



GRADUATE SCHOOL PT. 1

Decided that I want to pursue interpretive social sciences and humanities

CURRENT RESEARCH

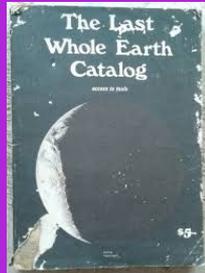
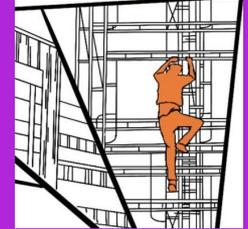


ECOGOV LAB

Research, education, and collaboration for next-generation environmental governance
Twitter: [@ecogovlab](#)

CURRICULUM DESIGN & DEVELOPMENT

Developing environmental and climate justice curriculum for K-16;
Instagram: [environmental_injustice](#)
Twitter: [@enviroinjustice](#)



DISSERTATION RESEARCH

How does political engagement occur in science pedagogy? How do science educators engage with political and social conversations? How does that influence their teaching and learning practices?

PhD Candidate and National Science Foundation Research Trainee at the University of Maryland School of Public Health. Jan's research pursues better practices for using **community science** to increase environmental health literacy and reduce poor health outcomes in neighborhoods suffering from air pollution overburden. Jan has employed **low-cost sensors and community-engaged methods to teach residents how to collect environmental data, interpret results, and report findings** to peers, decision-makers, and media outlets. While critical of academia's role in perpetuating structural racism and other injustices, Jan appreciates his ability to act as a connector between community members, researchers, policymakers, and funders—**sharing institutional resources, knowledge, and power** with the people driving grassroots efforts

JAN-MICHAEL ARCHER



ALEXIS TAKAHASHI



BUT LEARNING IS A LIFELONG PROCESS! HERE ARE SOME ADDITIONAL FAVES WE'VE FOUND ALONG THE WAY:

DEBOLEENA ROY, "FEMINIST THEORY IN SCIENCE: WORKING TOWARD A PRACTICAL TRANSFORMATION" (PAPER)

ROBIN WALL KIMMERER, BRIDGING SWEETGRASS: INDIGENOUS WISDOM, SCIENTIFIC KNOWLEDGE AND THE TEACHINGS OF PLANTS (BOOK)

STEFANO HARNEY & FRED MOTEN, THE UNDERCOMMONS: FUGITIVE PLANNING & BLACK STUDY

STOP LAPD SPYING COALITION, "BEFORE THE BULLET HITS THE BODY- DISMANTLING PREDICTIVE POLICING IN LOS ANGELES" (REPORT)

DONNA HARAWAY, SITUATED KNOWLEDGES: THE SCIENCE QUESTION IN FEMINISM AND THE PRIVILEGE OF PARTIAL PERSPECTIVE. (BOOK)

HASOK CHANG, SCIENTIFIC PLURALISM AND THE MISSION OF HISTORY AND PHILOSOPHY OF SCIENCE (LECTURE AVAILABLE ON YOUTUBE)



Patricia is **Orange County Environmental Justice's** (OCEJ) Project Director, and is excited to lead the organization in confronting the many environmental issues disproportionately affecting **Orange County's marginalized communities**. PJ was raised and currently lives in Santa Ana, California. She began organizing as a student at UC Berkeley, where she worked to bring student power to bear in support of **campus labor organizing** and the **local prison abolition movement**. After graduating, PJ returned to Santa Ana, where she organized with Colectivo Tonantzin, a local grassroots organizing collective, to fight **wage theft and defend the rights of day laborers and domestic workers** in Orange County. Patricia leads campaigns to address **environmental lead contamination, water pollution, and climate change** throughout the region, by centering the voices of those most impacted by these issues,

PATRICIA FLORES



What kind of science/STEM do you want to do going forward?



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