

COVID Information Commons

An Open Portal and Community for
Research Collaboration

Florence D. Hudson
Executive Director and PI
COVID Information Commons
Northeast Big Data Innovation Hub at Columbia University



The Northeast Big Data Innovation Hub

Key: ★ PI Institution

□ Non-Profit

◇ Industry

○ Academic

● Steering Committee

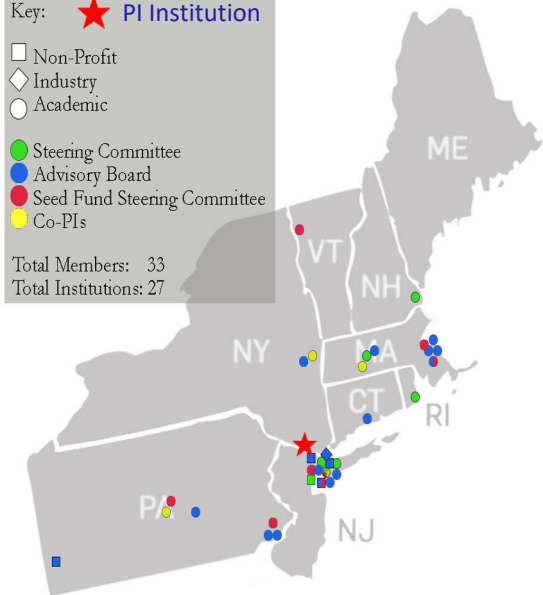
● Advisory Board

● Seed Fund Steering Committee

● Co-PIs

Total Members: 33

Total Institutions: 27



- The Northeast Hub is a community convener, collaboration hub, and catalyst for data science innovation in the Northeast Region and around the world.
- Building a diverse, equitable, and inclusive community with accessible resources is central to our work.
- We are a community of over 8,300 individuals from 1,375 organizations, all 50 U.S. States and 61 countries. Join us!

Four Focus Areas guide community engagement and activities.



**Education +
Data Literacy**



Health



**Urban to Rural
Communities**



**Responsible Data Science:
Security + Privacy + Ethics**

Funded by NSF grants #1550284,
1748395, 1916585, 2028999,
2139391, NIH AIM-AHEAD.

<http://nebigdatahub.org/about/>

BDHub Activities Leverage Data Science For Good

The CIC is the Northeast Hub's premier Health Focus Area Program

			
Education & Data Literacy	Health	Urban to Rural Communities	Responsible Data Science
			<i>Security, Privacy & Ethics</i>
National Student Data Corps (NSDC)	COVID Information Commons (CIC)	Smart Cities Data Exchange	Cybersecurity Risk Initiative
OpenDS4All - Call for Participation	CIC Student Paper Challenge	Driver Video Privacy Challenge	Responsible Data Science Comic Books
Data Science Resource Repository (DSRR)	CIC Working Groups	Transportation Projects	IEEE/UL P2933 TIPPSS Standard Working Group
NSDC Global Chapter Community	AIM-AHEAD Data Science Training Core Portal	Smart Cities and Buildings	IEEE Connected Healthcare Cybersecurity Workshops
Data Science Panel Video Series	Clinical IOT and TIPPSS at HIMSS	Urban to Rural Communities Working Group	Framework for Integrative Data Equity Systems (FIDES)
Data Science Mentorship Program	Blockchain & Data Science in Healthcare - Call for Papers	Climate and Nature	Data Sharing and Cyberinfrastructure WG
Education & Data Literacy Seed Fund Projects	Health Seed Fund Projects	Urban to Rural Seed Fund Projects	Responsible Data Science Seed Fund Projects

<http://nebigdatahub.org/about/>



COVID INFORMATION COMMONS

[About](#) [CIC Search Tools](#) [Meet the Researchers](#) [Opportunities & Resources](#) [Events](#) [News](#) [Team](#) [Contact](#)

The COVID Information Commons serves as an open resource to explore research addressing the COVID-19 pandemic.

Search COVID Awards & PI Database

Search

[COVID Research Explorer ML Maps](#)

The COVID Information Commons is supported by the National Science Foundation through awards [#2028999](#) and [#2139391](#).



Convergence Accelerator

covidinfocommons.net | [@CIC_COVID](#)

COVID Information Commons (CIC) – Purpose + Plan

- An NSF-funded project designed to be a trusted resource for COVID research.
- NSF CIC RAPID Award funded in May 2020, Launched July 2020.
- Designed in collaboration with the 4 NSF Big Data Innovation Hubs (Northeast, Midwest, South, West), plus Columbia University Libraries and Columbia University IT.
- Designed to be Findable, Accessible, Interoperable, Reusable (FAIR).
- Includes NSF-funded COVID RAPID awards, leverages the NSF database and Machine Learning (ML) clustering tools.
- Uses Principal Investigator (PI) provided information to contextualize NSF abstracts, including ORCID ID, research websites, keywords.

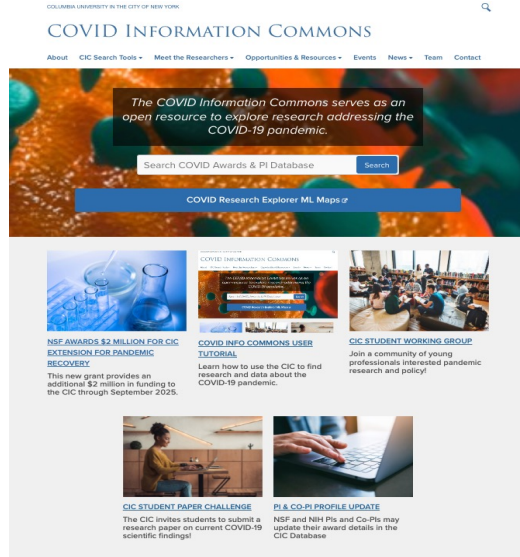
<https://covidinfocommons.net>

COVID Information Commons – Progress

- 2021 NSF \$2M CIC Extension award funded significant expansion over 4 years.
 - **10x corpus growth** - now includes 10,000+ NSF **and NIH** COVID awards.
 - **10x community growth** - 2,930 individuals at 736 organizations in US + 35 countries.
 - Expanded CIC Student Paper Challenge
 - 3 undergraduate winners in 2021.
 - 5 winning teams in 2022 in both an undergraduate and a graduate student cohort.
 - Funded prizes for top 3 winning teams in each cohort (grad and undergrad).
 - English and Spanish transcripts/translations created with students and volunteers.
- Plan for advanced COVID data and metadata search and discovery tools.
- Plan to leverage DRYAD to archive the CIC corpus - <https://datadryad.org/stash>.

<https://covidinfocommons.net>

COVID Information Commons – The Portal



The COVID Information Commons serves as an open resource to explore research addressing the COVID-19 pandemic.

Search COVID Awards & PI Database

COVID Research Explorer ML Maps

NSF AWARDS \$2 MILLION FOR CIC EXTENSION FOR PANDEMIC RECOVERY
This new grant provides an additional \$2 million in funding to the CIC through September 2025.

COVID INFO COMMONS USER TUTORIAL
Learn how to use the CIC to find research and data about the COVID-19 pandemic.

CIC STUDENT WORKING GROUP TUTORIAL
Join a community of young professionals interested pandemic research and policy!

CIC STUDENT PAPER CHALLENGE
The CIC invites students to submit a research paper on current COVID-19 scientific findings!

PI & CO-PI PROFILE UPDATE
NSF and NIH PIs and Co-PIs may update their award details in the CIC Database

CIC COMMUNITY ENGAGEMENT AND COLLABORATION

Since its launch in July 2020, the COVID Information Commons has reached 2,930 individuals across 736 organizations, spanning various sectors, across all regions of the U.S., Washington D.C., and Puerto Rico, as well as 39 other countries, including Argentina, Belize, Brazil, Canada, Chile, China, Dominican Republic, Ecuador, Egypt, Finland, France, Haiti, India, Indonesia, Italy, Kenya, Malaysia, Myanmar, Nepal, Netherlands, Nigeria, Pakistan, Peru, Philippines, Portugal, Romania, Senegal, South Africa, South Korea, Taiwan, Tanzania, Trinidad & Tobago, Turkey, the United Kingdom, and Zimbabwe.



CIC portal includes

- 10,000+ NSF and NIH COVID-related Awards
- COVID Awards & PI database search tool
- COVID Research Explorer ML Maps tool
- PI-provided information on research websites, links to datasets, ORCID ID hotlinks
- User tutorial and demo videos
- Links to events, challenges and working groups
- Links to global resources
 - 80+ datasets from 6 continents
 - 60+ groups and guides

<https://covidinfocommons.net>

COVID Information Commons - The Community

“Your site and the ability to come together is marvelous. I thank you especially for thinking about this and bringing us together. People will be able to use your [CIC] site as a proper, safe, true information source.” – Nora Garza, Laredo College

September COVID-19 Research Lightning Talks: Webinar and Q&A



July 2020 launch webinar

- 178 attendees + 2 PI lightning talks
- 40 more PIs offered to do lightning talks

Created CIC Community

- Now 2,930 CIC Community Members
- Members across the US + 35 countries

Ongoing CIC Community Webinars

- 26 CIC hosted webinars to date
- 128 researcher lightning talks
- 10,800+ total views (live + YouTube)

<https://covidinfocommons.net>

CIC Accessibility & Language Resources



The lightning talk videos are posted on the NEBDHub **YouTube** website!

Review past talks and transcripts: bit.ly/cic-meet-the-researchers

With help from our students, staff, and volunteers, all talks are also available in **written English and Spanish.**

Volunteer to join the effort: info@covidinfocommons.net



Aditya Kulkarni, University of Minnesota

Human Mobility Patterns Linked to COVID-19 Prone Locations

Aditya Kulkarni

kulkaz62@umn.edu

UNIVERSITY OF MINNESOTA
Drives to Discover

Watch on YouTube

Video Category: Lightning Talk

Read an English Transcript of Aditya Kulkarni's "Human Mobility Patterns Linked to COVID-19 Prone Locations" Presentation

Transcribed by Brian Buckley and Lauren Close

Columbia Academic Commons ID. DOI for this Presentation: 10.7916/68-q86-ly41Z

[COVID Information Commons \(CIC\) Research Lightning Talks](#)

[Transcript of a Presentation by Aditya Kulkarni \(University of Minnesota\), September 2020](#)

[Title: Human Mobility Patterns Linked to COVID-19 Prone Locations](#)

[Information about the CIC Student Paper Challenge](#)

[YouTube Recording with Slides](#)

[July 2021 CIC Webinar Information](#)

[Transcript Editor: Brian Buckley](#)



[Transcript](#)

Aditya Kulkarni:

Slide 1

Hello everyone. I am Aditya Kulkarni and I'll be talking on human mobility patterns linked to COVID-19 prone locations. I'm going into my senior year in high school and I've been taking university classes for the past few years.

Slide 2

The motivation behind the problems that I was trying to solve was that I was seeing during the early days of the pandemic as the awareness that there was a lot of outbreaks of patients and how and that

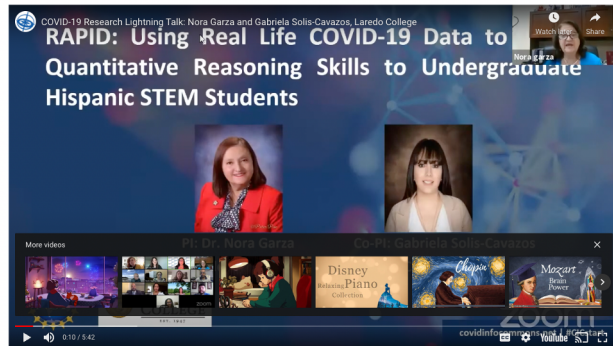
Access CIC researcher Lightning Talk videos, English and Spanish Transcripts

COVID INFORMATION COMMONS

About CIC Search Tools Meet the Researchers Opportunities & Resources Events News Team Contact

Home Video Library Nora Garza and Gabriela Solis-Cavazos, Laredo Col...

Nora Garza and Gabriela Solis-Cavazos, Laredo College



Video Category 1: All Lightning Talk Presentations
Video Category 2: COVID and Education, COVID and Data

Related award: RAPID: Using Real Life COVID-19 data to teach quantitative reasoning skills to undergraduate Hispanic STEM students

Read an English Transcript of Nora Garza and Gabriela Solis-Cavazos' "Using real life COVID-19 data to teach quantitative reasoning skills to undergraduate Hispanic STEM students" Presentation

Transcribed by Macy Moujabber and Lauren Close

Haga clic aquí para leer una transcripción en español de Nora Garza: Usando datos COVID-19 de la Vida Real para enseñar habilidades de razonamiento cuantitativo a estudiantes hispanos de pregrado de CTM

Traductores: Isabella Graham Martinez and Kenia Pujols



Video Category 1: All Lightning Talk Presentations

Video Category 2: COVID and Education COVID and Data

Related award: RAPID: Using Real Life COVID-19 data to teach quantitative reasoning skills to undergraduate Hispanic STEM students

Read an English Transcript of Nora Garza and Gabriela Solis-Cavazos' "Using real life COVID-19 data to teach quantitative reasoning skills to undergraduate Hispanic STEM students" Presentation

Transcribed by Macy Moujabber and Lauren Close

Haga clic aquí para leer una transcripción en español de Nora Garza: Usando datos COVID-19 de la Vida Real para enseñar habilidades de razonamiento cuantitativo a estudiantes hispanos de pregrado de CTM

Traductores: Isabella Graham Martinez y Kenia Pujols

<https://covidinfocommons.net>

Researcher Lightning Talk videos, English and Spanish Transcripts Example

[COVID Information Commons \(CIC\) Research Lightning Talk](#)

Transcript of a Presentation by Nora Garza and Gabriela Solis-Cavazos (Laredo College), September 16, 2020



[Title: RAPID: Using Real Life COVID-19 data to teach quantitative reasoning skills to undergraduate Hispanic STEM students](#)

[Nora R Garza CIC Profile](#)

NSF Award #: [2032954](#)

[YouTube Recording with Slides](#)

[September 2020 CIC Webinar Information](#)

Transcript Editor: Macy Moujabber

[Transcript](#)

[Katie Naum:](#)

Next Nora Garza and Gabriela Solis-Cavazos of Laredo College. So, I'll let you guys take it away.

[Nora Garza:](#)

Slide 1

Thank you very much and thank you all for hosting us with the COVID Information Commons. It's nice to be able to share. I'd also like to thank Laredo College and my RAPID team of faculty members that are part of this group and the RAPID research assistant students that are coming on board as we speak. Gabriela Solis-Cavazos is the co-PI for this grant. Also thank NSF and the HSI program which is funding this RAPID grant. Gabriela Solis is our undergraduate research coordinator for a grant that we have where students are already participating in undergraduate research experiences with faculty partners. So, Gabby for the next slide-

[Centro de Información de COVID \(CIC\): Charlas científicas relámpago](#)

Transcripción de una presentación de Nora Garza y Gabriela Solis-Cavazos (Laredo College), 16 de septiembre de 2020



[Título: RAPID: Usando datos de la Vida Real COVID-19 para enseñar habilidades de razonamiento cuantitativo a estudiantes hispanos de pregrado de CTIM](#)

[Perfil de Nora R Garza en la base de datos del CIC](#)

Subvención de La Fundación Nacional de Ciencias (NSF, por sus siglas en inglés) #: [2032954](#)

[Grabación de YouTube con diapositivas](#)

[Seminario web del CIC de Septiembre 2020](#)

Editora de la transcripción: Macy Moujabber

[Traductora:](#) Isabella Graham Martínez

Diapositiva 1

Muchas gracias y gracias a todos por recibirnos en el COVID Information Commons. Es muy bueno poder compartir. También me gustaría darles las gracias a Laredo College y a mi equipo RAPID de miembros de la facultad que forman parte de este grupo y a los estudiantes asistentes de investigaciones RAPID que se están uniendo al equipo. Gabriela Solis-Cavazos es la co-PI de esta subvención. También agradezco a NSF y al programa HSI que está financiando esta subvención RAPID. Gabriela Solis es nuestra coordinadora de investigación de pregrado para una subvención que tenemos donde los estudiantes ya están participando en experiencias de investigación de pregrado con socios de la facultad. Así que Gabby para la próxima diapositiva -

<https://covidinfocommons.net>

COVID Awards & Researcher (PI) Database

COLUMBIA UNIVERSITY IN THE CITY OF NEW YORK

COVID INFORMATION COMMONS

About | [CIC Search Tools](#) | [Meet the Researchers](#) | [Opportunities & Resources](#) | [Events](#) | [News](#) | [Team](#) | [Contact](#)

Showing 10000 results.

[Download Results as CSV \(up to 1,000 awards\)](#)

Awards	Principal Investigator	Award Amount
NSF NSF PRFB FY 2023: Understanding the ecological drivers and genomic mechanisms of wildlife viral emergence caused by deforestation in Cambodia This action funds an NSF Postdoctoral Research Fellowship in Biology for FY 2023, Integrative Research Investigating the Rules of Life Governing Interactions Between Genomes, Environment, and Phenotypes. The fellowship supports research and training... SHOW MORE	Cong Xu	\$240,000
NSF CAREER: Statistically-Sound Knowledge Discovery from Data The real-time generation of enormous amounts of data from social and natural events has become commonplace, spanning e-commerce, social media, environmental science, urban disaster and pandemic monitoring, and many other areas. Such streaming data n... SHOW MORE	Matteo Riondato	\$600,322

Filter Results [CLEAR FILTER](#)

Funder

NIH Institute/Center

Awardee Organization

State/Territory

PI Name

Program Officer/Official

Start/End Date

CIC Database includes 10,000+ NSF & NIH COVID-related awards.

Browse the Database:
<https://bit.ly/cic-award-search>

Update your CIC PI Profile:
<https://cic-apps.datascience.columbia.edu/survey/>

NSF + NIH COVID PI Profiles

COLUMBIA UNIVERSITY IN THE CITY OF NEW YORK

COVID INFORMATION COMMONS

About [CIC Search Tools](#) [Meet the Researchers](#) [Opportunities & Resources](#) [Events](#) [News](#) [Team](#) [Contact](#)

Florence D Hudson

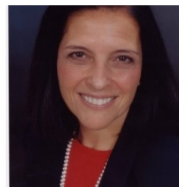
Institution:
Columbia University

Email:
fh2417@columbia.edu

ORCID ID:
<https://orcid.org/0000-0003-0896-2127>

Website:
<https://covidinfocommons.net>

<https://nebigdatahub.org/about/>



Video:



Awarded COVID Grants:
CIC-E: COVID Information Commons Extension for Pandemic Recovery

RAPID: COVID Information Commons (CIC)

Keywords:

[Data science](#) [analytics](#) [health](#) [COVID](#) [coronavirus](#) [cybersecurity](#) [connected healthcare](#) [Medical Internet of Things](#) [IoT](#) [TIPSS](#) [Trust](#) [Identity](#)

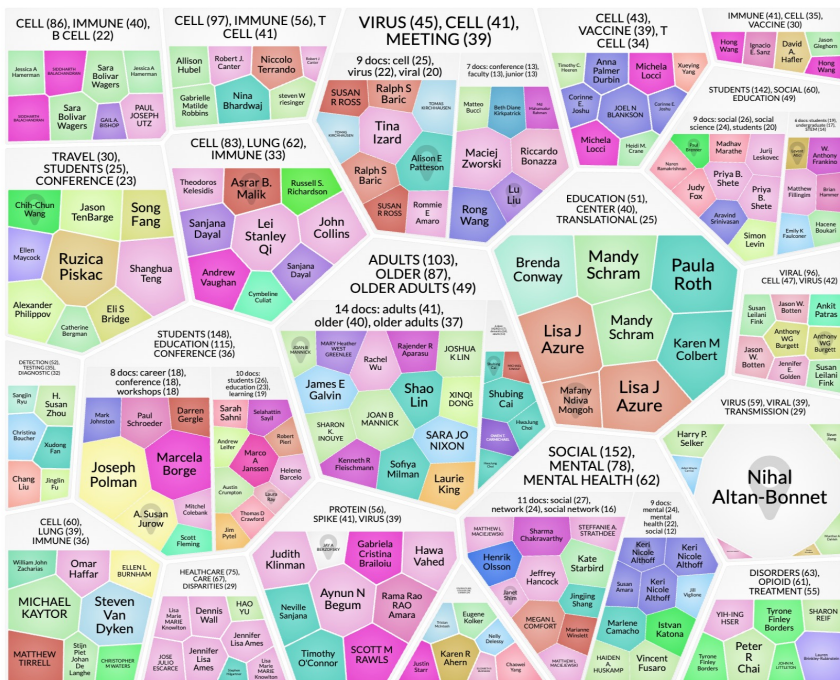
COVID Info Commons

Research Explorer Machine Learning Maps

13.7s total time 9.9k docs in scope 3.47k labels **99.9%** labeled docs 310 cluster sets 892 clusters **99.7%** docs clustered 20 cluster sets shown 25 clusters shown 204 docs shown

Doc clusters **map** **treemap** list Topics **treemap** list Labels list

Export Experiments Fields



Top 10 of 1001 docs in scope

RUI: Mathematical Modeling of Immune Response to SARS-CoV-2

This research investigates the human immune response to SARS-CoV-2 virus to elucidate the key mechanisms responsible for disease severity exhibited by some COVID-19 patients. Despite a significant volume of clinical and experimental studies for the detailed mechanisms of SARS-CoV-2 virus, there is a lack of understanding about the host immune response to the virus, which is largely responsible for the variability in disease severity. To accelerate and supplement our understanding of key target...

award_id: 2151990 principal_investigator: Hwayeon Ryu awardee_organization: Elon University funder: National Science Foundation state: NC

- 👉 immune (12) 👉 immune response (6)
- 👉 virus (4) 👉 mathematical models (4)
- 👉 host (4)
- 👉 virus (10), immune (9), immune response (8) @ 0.12
- 👉 exemplar document

Expanding the Cell Science and Immunological Testing Workforce by Developing a Diverse and Inclusive Credentialed Biotechnology Program

The life sciences/biotechnology center has

- Find COVID research and researchers by Principal Investigator (PI) name, institution, award number, state
- Clustered by topic using Machine Learning
- Input domain areas or keywords to limit the view to target areas

Query the CIC by Keyword

Lingo4G Explorer Analyze

find settings, e.g. 'overlap' ×

ANALYSIS SCOPE

Defines the set of documents to process.

Query

epidemiology

Limit scope size

Max number of documents to analyze ?

10 k

Query parser

enhanced

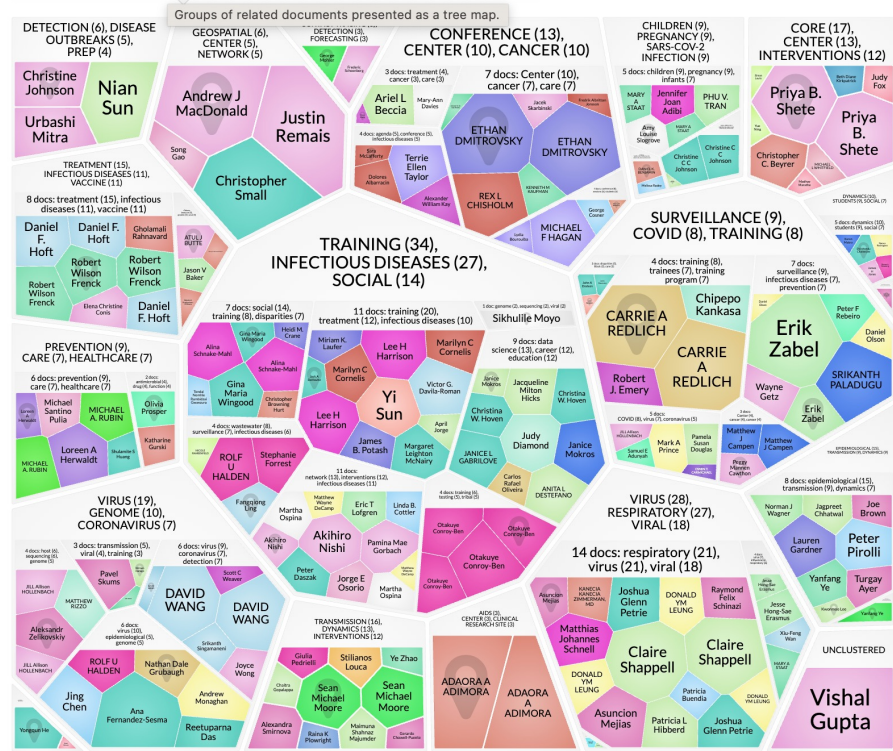
DOCUMENT MAP

Configuration of the documents 2d map.

291ms total time **387** docs in scope 305 labels 100% labeled docs 18 cluster sets 42 clusters 99.5% docs clustered 204 docs shown

Doc clusters map treemap list Topics treemap list Labels list

Docs list ? Fields ?



Top 10 of 387 docs in scope

COVID-Inspired Data Science Education through Epidemiology

The ongoing COVID-19 pandemic provides a starting point for empowering young people to understand uses of data science through epidemiology. Through this program, 400 underserved youth nationwide will engage in a 15-hour out-of-school multimedia program centered on a project-developed text, The Case of the COVID Crisis, which is integrated with data activities, modeling, animations, and career exploration. Participants will: 1) Learn to use data tools and models to track the spread of infectious...

...; and 3) Gain confidence in their ability to local audiences about epidemiological challenges. The program is also aimed at encouraging youth's interest in the myriad careers of the data-rich discipline of epidemiology. The project will achieve these goals through a multifaceted partnership involving Science Education Solutions, Tumblehome Books, Imagine Science/STEM Next, Concord Consortium, Jackson Laboratory (JAX), Strategic Learning Partners for...

...by: 1) Elucidating the ways in which youth use datasets and data tools to ask epidemiological questions, examine patterns, and make predictions; 2) Studying how youth become motivated to engage in work in the

CIC Research ML Explorer - View by PI or Institution

0ms total time 214 docs in scope 195 labels 100% labeled docs 11 cluster sets 26 clusters 100% docs clustered

Doc clusters [map](#) [treemap](#) [list](#) Topics [treemap](#) [list](#) Labels [list](#)



0ms total time 214 docs in scope 195 labels 100% labeled docs 11 cluster sets 26 clusters 100% docs clustered 200 docs shown

Doc clusters [map](#) [treemap](#) [list](#) Topics [treemap](#) [list](#) Labels [list](#)



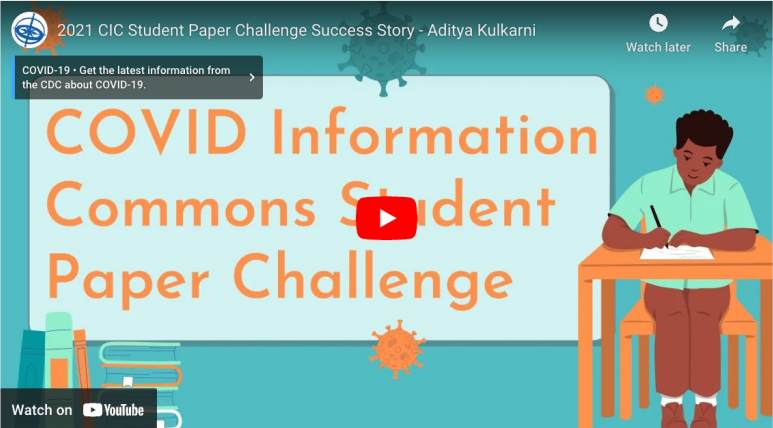
CIC Student Paper Challenge

2021 & 2022 CIC STUDENT PAPER CHALLENGE WINNERS




The inaugural CIC Undergraduate Student Paper Challenge was launched in December 2020 to bring students into the CIC community and encourage their professional development and training for their research careers.

In 2022, the CIC hosted its second annual Student Paper Challenge, broadening its reach to undergraduate, graduate, and recently-graduated students. With students participating from around the globe, the winning submissions represented higher education institutions from across the U.S. and South Africa.




The student winners were offered the opportunity to present their research in a virtual setting to the Northeast Big Data Innovation Hub and COVID Information Commons communities. The feedback was overwhelmingly positive: one of the student presenters was offered research funding by one of the PIs attending the webinar, and a potential internship in 2022 at another university.





Learn more about the 2021 Undergraduate CIC Student Paper Challenge Winners:

		
First Place: Jane Pan, Columbia University. <small>"Contradiction Detection of COVID-19 Randomized Controlled Trials via BERT Language Models"</small>	Second Place: Samson Qian, University of California, San Diego. <small>"Generating Explanations for Chest Medical Scan Pneumonia Predictions" ^{CF}</small>	Third Place: Aditya Kulkarni, University of Minnesota. <small>"Human Mobility Patterns Linked to COVID-19 Prone Locations" ^{CF}</small>

Learn more about the 2022 Graduate CIC Student Paper Challenge Winners:

		
First Place: Jiming Wan, Binghamton University <small>"Skillsets Networks with Higher-order Interaction Reveal the Impact of Collective Behavior on Epidemic Dynamics"</small>	Second Place: Ka Ying Toby Law, Columbia University <small>"The Association Between Educational Attainment and COVID-19 Vaccine Hesitancy in the United States"</small>	Third Place: Xin Zan, University of Florida <small>"Data-driven Adaptive Testing Resource Allocation Strategies for Real-time Monitoring of Infectious Diseases"</small>

Learn more about the 2022 Undergraduate CIC Student Paper Challenge Winners:

	
First Place: Evelyn Zhou, University of South Africa <small>"Inference in Heterogeneous Sustainability vs. Contagious Equity Market Sustainability in South Africa During the COVID-19 Era"</small>	Second Place: Paige Gavin and Sarah Frisman, George Washington University <small>"Tailed Linnéity and Disentangled Spatiotemporal COVID-19 Deaths in Nonlinear Homes"</small>

<https://covidinfocommons.datascience.columbia.edu/content/2023-cic-student-paper-challenge>

2023 CIC Student Paper Challenge

Undergraduate, community college, graduate students and recent graduates are invited to investigate and synthesize COVID-19 research into a short 4 to 5 page paper.

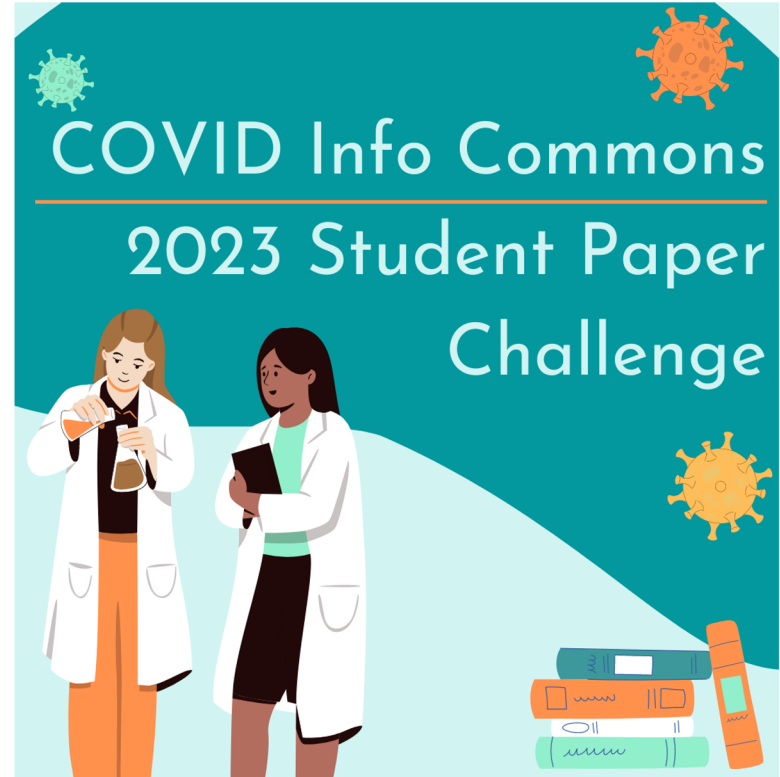
Winners will receive a prize and may be offered the chance to present their work at a future symposium.

Monthly virtual student mentoring sessions.

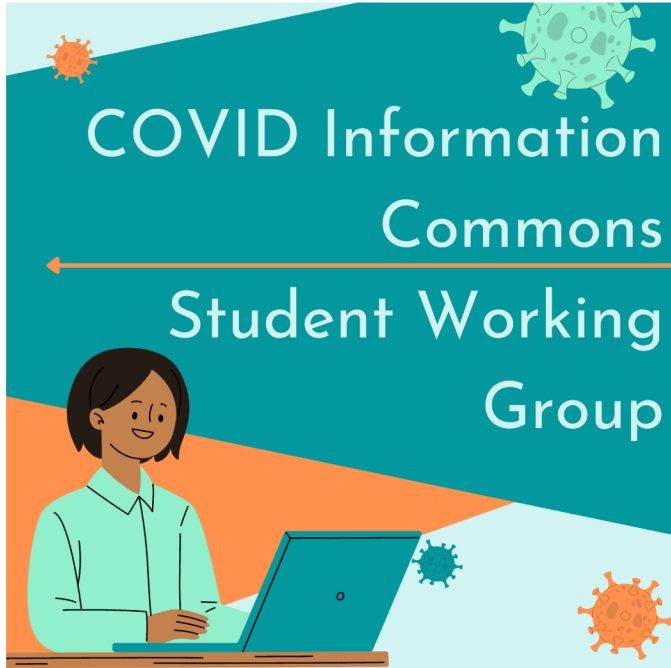
Professionals and grad students invited to be mentors and judges!

Final submissions due August 14th, 2023!

Learn more: <https://bit.ly/2023-cic-spc>



CIC Student Working Group



A community of young professionals and researchers interested in the future of COVID-19 research begun in late 2022 to further student research and collaboration.

Biweekly Meetings

Website: bit.ly/CICStudentWG

Mailing List: bit.ly/wg-email-signup

Slack: bit.ly/slack-cic

CIC Research Working Group

Join a collaborative **Working Group of scientists and researchers** interested in the future of COVID-19 research.

Monthly Meetings

Website: bit.ly/CICResearchWG

Mailing List: bit.ly/wg-email-signup

Slack: bit.ly/slack-cic





COVID-19 Research Webinars: Lightning Talks and Q&A

**Meet the scientists seeking
new insights on COVID-19**

April 2023 CIC Lightning Talks

Ellen Foxman, Yale University. [Host response-based screening for unexpected or emerging respiratory viruses](#). Funded by NIH National Institute of Allergy and Infectious Diseases.

Ioannis Paschalidis, Boston University. [Predictive Models of COVID-19 Severity and Patient Outcomes](#). Funded by NSF Computer and Information Science and Engineering (CISE) PIPP Phase 1.

Jeffrey Townsend, Yale University. [Infection by SARS-CoV-2 with alternate frequencies of mRNA vaccine boosting](#). Funded by NSF Biological Sciences.

Chang-Yu Wu, University of Miami. [Environmental Surveillance to Assess Aerosol Transmission Pathways of COVID-19 Enabled by On-The-Spot Sampling and Detection](#). Funded by NSF Engineering.

Niema Moshiri, University of California, San Diego. [Massively scalable reference-guided Multiple Sequence Alignment of viral genomes](#). Funded by NSF Biological Sciences.

July 2023 CIC Lightning Talks

- **Carlos Badenes-Olmedo**, Universidad Politécnica de Madrid. [Drugs4Covid: Knowledge Graph about Drugs used in the Clinical Control of the Coronavirus](#).
- **Niu Gao**, Public Policy Institute of California. [Impact of COVID-19 on Science Education: Early Evidence from California](#). Funded by NSF Education and Human Resources.
- **Hong Qin**, University of Tennessee, Chattanooga. [PIPP Phase I: Develop and Evaluate Computational Frameworks to Predict and Prevent Future Coronavirus Pandemics](#). Funded by NSF Computer and Information Science and Engineering (CISE).
- **Evelyn Yemurai Zhou**, University of South Africa. [Advances in Machine Learning Explainability to Contextualize Equity Market Sustainability in South Africa During the COVID-19 Era](#). 2022 COVID Information Commons Undergraduate Student Paper Challenge 1st Place Winner.
- **Xin Zan**, University of Florida. [Data-driven Adaptive Testing Resource Allocation Strategies for Real-time Monitoring of Infectious Diseases](#). 2022 COVID Information Commons Graduate Student Paper Challenge 3rd Place Winner.

Thank you!

Florence D. Hudson, Executive Director and PI
NSF Northeast Big Data Innovation Hub and COVID Information Commons
Florence.Hudson@columbia.edu

Stay in the loop about upcoming events: covidinfocommons.net/events

Sign up for our mailing list: bit.ly/HubNewsSignup

Join the CIC community on Slack: bit.ly/joincicslack

Follow us on Twitter: [@CIC_COVID](https://twitter.com/CIC_COVID), [#cicwebinar](https://twitter.com/cicwebinar)

Email us if you are interested in presenting
your NSF or NIH-funded COVID research at a future CIC webinar:

info@covidinfocommons.net