

The Center for Spatial Research (CSR)

Columbia University

Graduate School of Architecture, Planning and Preservation

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<https://github.com/CenterForSpatialResearch>

About the Center for Spatial research

- “CSR engages with data in order to understand the forces transforming cities today and to investigate the effects that data-based approaches to urban studies have on cities themselves.”
- “Its projects involve collaborations with researchers and advocates across disciplines and institutions.”

Ref: https://chicagoarchitecturebiennial.org/current/contributors/center_for_spatial_research

About the Center for Spatial research

- “A hub for urban research that links design, architecture, urbanism, the humanities and data science”.
- “It sponsors research and curricular activities built around new technologies of mapping, data visualization, data collection, and data analysis”.
- “Focuses on data literacy as well as interrogating the world of big data.”
- “Opens up new areas of research and inquiry with advanced design tools to help scholars, students as well as our collaborators and audiences, to understand cities worldwide.”

Ref: <http://c4sr.columbia.edu/#/about>

About the Center for Spatial research

- Established 2015, New York City
- CSR was founded through a grant from the Andrew W. Mellon Foundation and has received support from the Ford Foundation and the David Lion Gardiner Foundation.
- It builds on the work of Columbia's Spatial Information Design Lab in the Graduate School of Architecture, Planning and Preservation.

Ref: https://chicagoarchitecturebiennial.org/current/contributors/center_for_spatial_research

Faculty:



Laura Kurgan
Grga Basic
Dare Brawley
Brian House
Jia Zhang
Dan Miller
Wright Kennedy

Courses:

2019 – 2020 Courses

Subaltern Urbanism

Methods in Spatial Research

Data Visualization for Architecture, Urbanism, and the Humanities

Spatial History and Historical GIS

Mapping for Architecture, Urbanism and the Humanities

Points Unknown: Cartographic Narratives

Projects

Physical installations:

- Homophily: The Urban History of an Algorithm, 2019, Commissioned by the 2019 Chicago Architecture Biennial
- In Plain Sight at the 2018 Venice Biennale of Architecture
- Conflict Urbanism: Aleppo at the 2016 Istanbul Design Biennial

Ref: [https://chicagoarchitecturebiennial.org/current/contributors/center for spatial research](https://chicagoarchitecturebiennial.org/current/contributors/center_for_spatial_research)

Visualization projects (online):

<http://c4sr.columbia.edu/projects>

<https://www.arch.columbia.edu/research/centers/3-center-for-spatial-research>

Projects

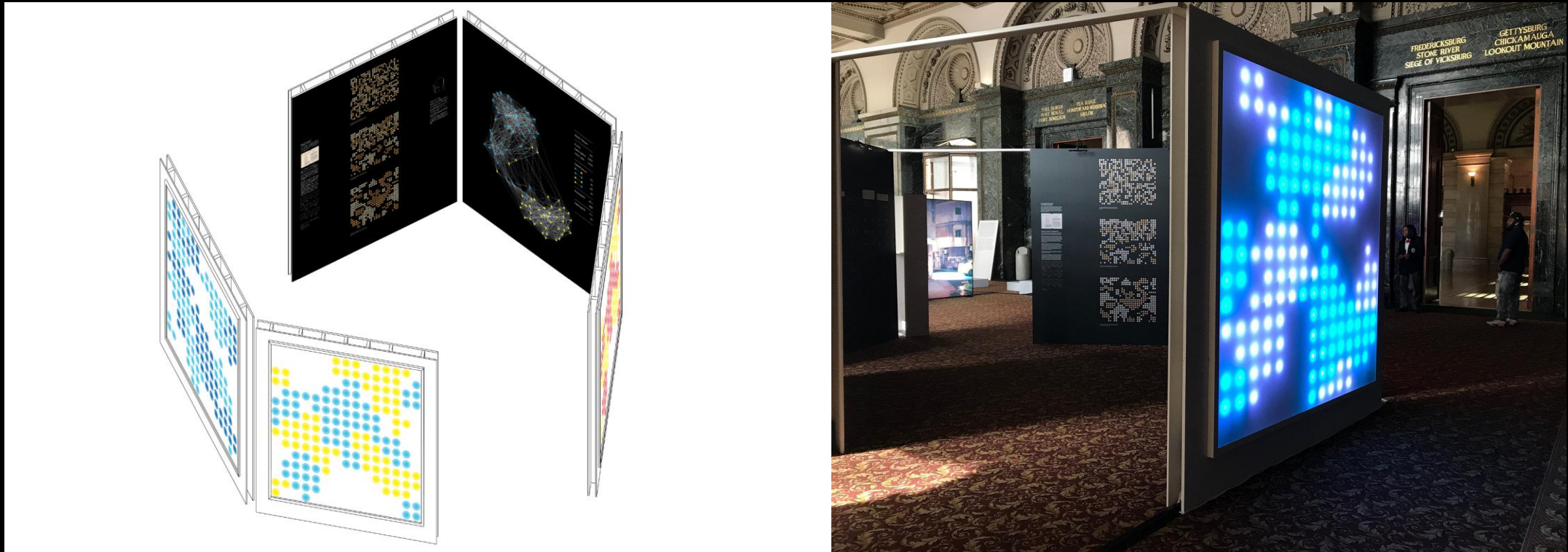
- Homophily: The Urban History of an Algorithm, 2019
- “Homophily” is “the tendency for friendships to form between people ‘of the same kind.’”
- The study concluded that close friendships form and persist not simply on the basis of shared racial identities but also thanks to shared values and beliefs.
- What began as a formal explanation of social life in a housing complex has today become an algorithm that shapes social dynamics in digital space.
- It perpetuates a social world in which positions are reinforced and concentrated rather than challenged or hybridized.

Ref: <https://www.e-flux.com/architecture/are-friends-electric/289193/homophily-the-urban-history-of-an-algorithm/>

Projects

- Homophily: The Urban History of an Algorithm, 2019

- Ref: <https://www.e-flux.com/architecture/are-friends-electric/289193/homophily-the-urban-history-of-an-algorithm/>



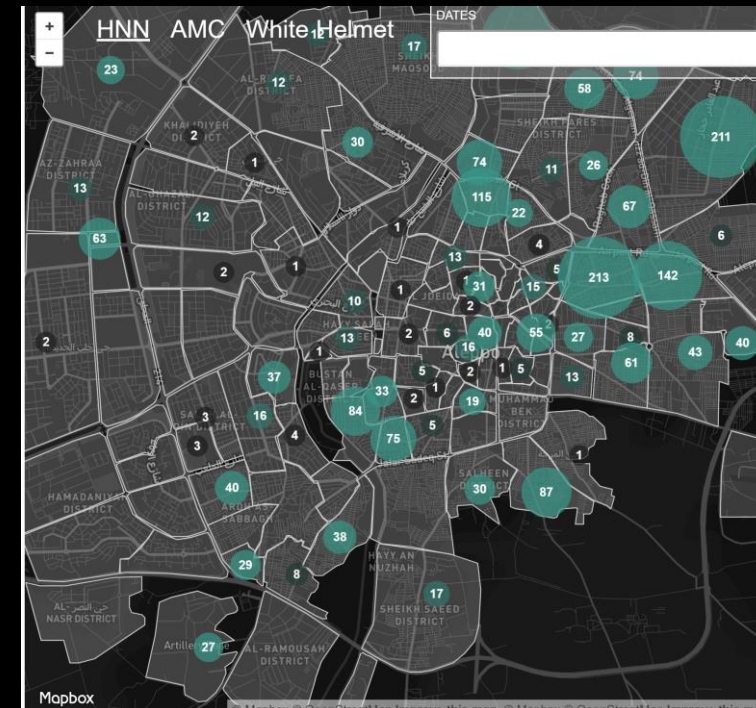
Projects

- In Plain Sight (at the 2018 Venice Biennale of Architecture & Vimeo)
- Ref: <http://c4sr.columbia.edu/projects/plain-sight>
- Ref: <https://vimeo.com/290575503>



Projects

- Conflict Urbanism: Aleppo at the 2016 Istanbul Design Biennial
- Ref: <http://c4sr.columbia.edu/conflict-urbanism-aleppo/>
<http://c4sr.columbia.edu/conflict-urbanism-aleppo/spatializing-youtube.html>

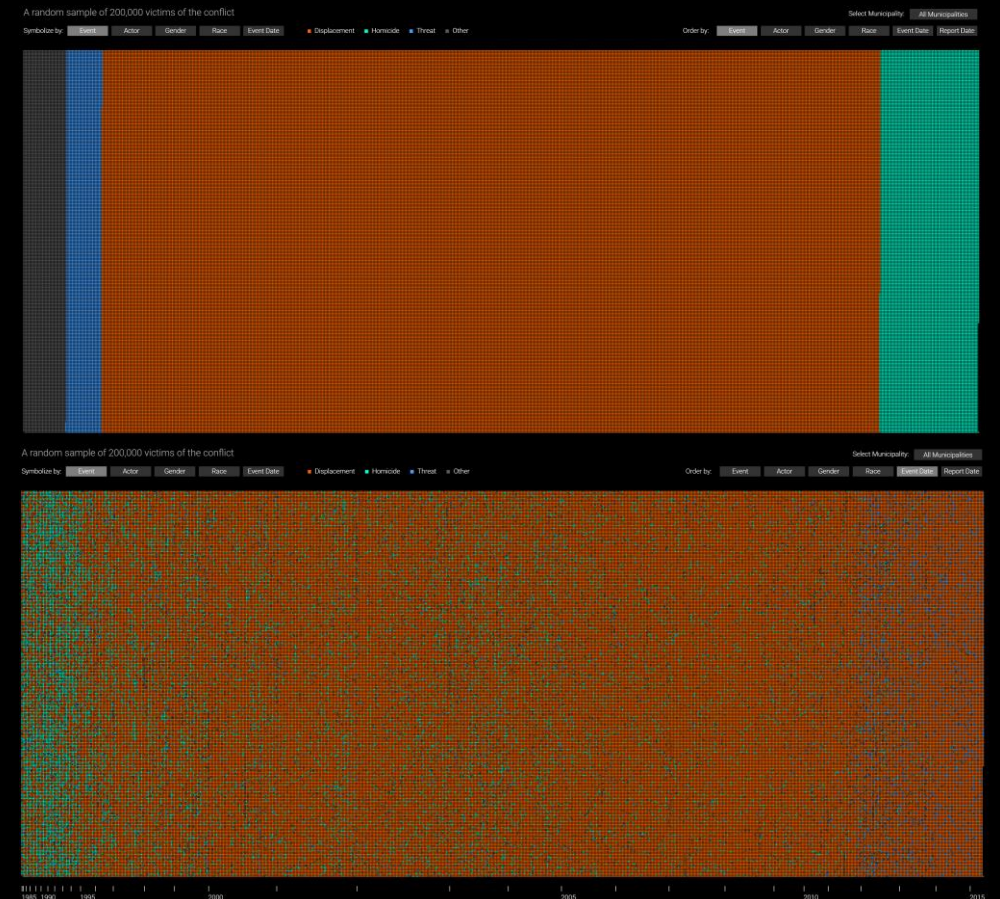


Projects

- Conflict Urbanism: CONFLICT URBANISM: COLOMBIA

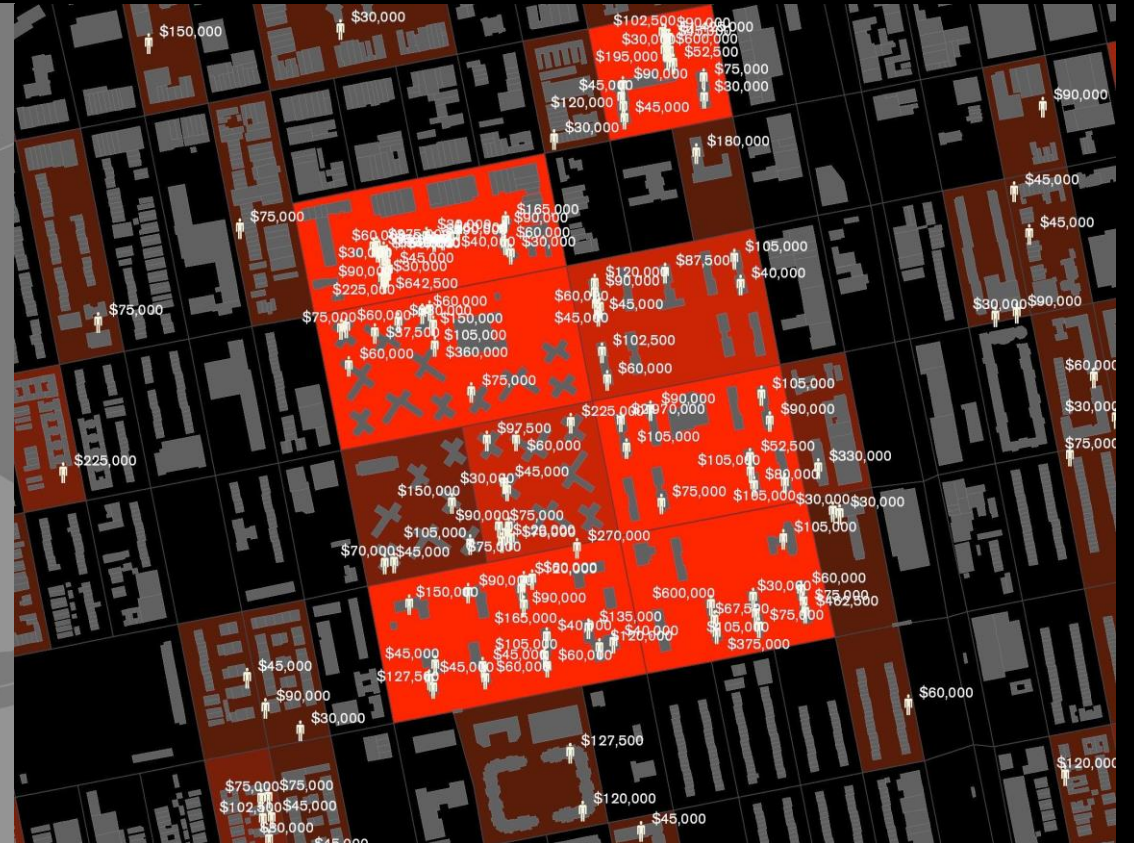
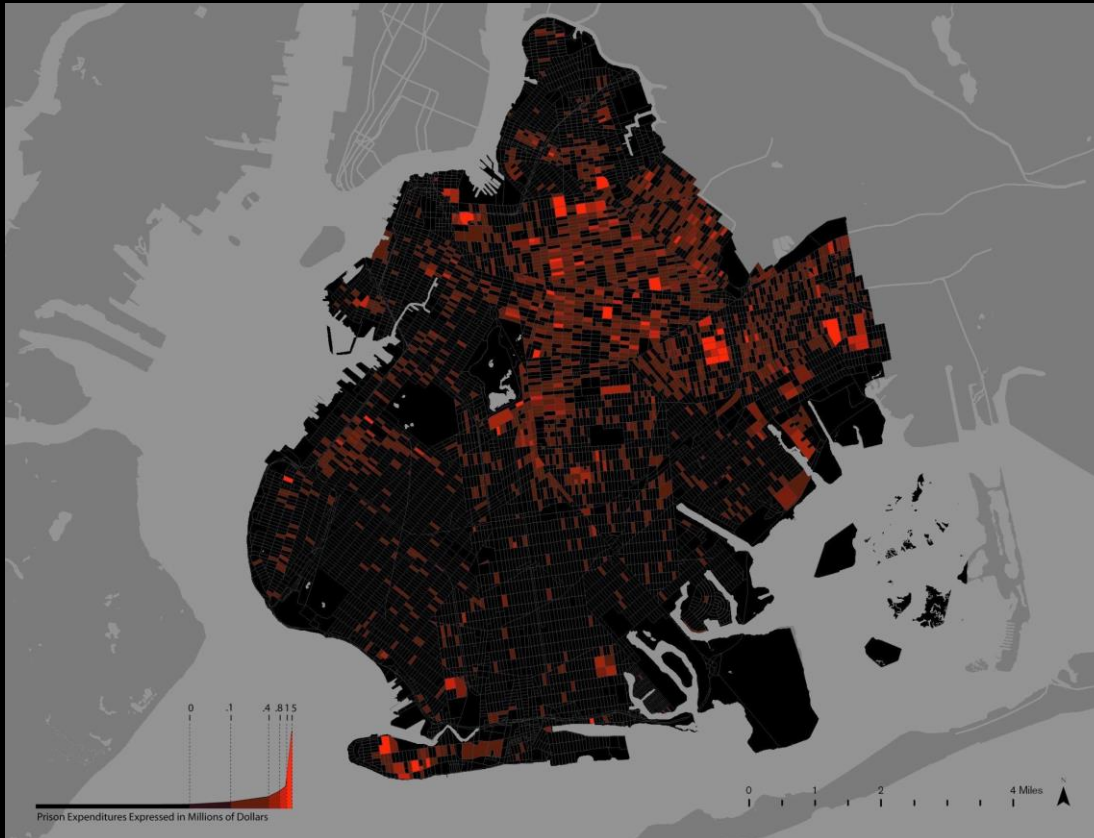
- Ref: <http://colombia.c4sr.columbia.edu/>

Ref: <http://c4sr.columbia.edu/projects/conflict-urbanism-colombia>



Projects

- Million Dollar Blocks



<http://c4sr.columbia.edu/projects/million-dollar-blocks>

Projects

- We Can: A data driven multimedia project on people who pick up cans and bottles on the street - experience the city

<https://canners.nyc/>

- The Banking Divide For Taxi Access

<http://c4sr.columbia.edu/projects/banking-divide-taxi-access-evidence-new-york-city>

- CitiBike Rebalancing Study

<http://c4sr.columbia.edu/projects/citibike-rebalancing-study>

- Hurricane Sandy

http://spatialinformationdesignlab.org/project_sites/sandy/ny_coast.html

Projects

- The Haven Project

http://spatialinformationdesignlab.org/project_sites/the-haven-project/

- Jumping the Great Firewall

<http://spatialinformationdesignlab.org/jumping-the-great-firewall/>

- Port to Port

http://spatialinformationdesignlab.org/project_sites/port_to_port/

- The Library Project

<http://c4sr.columbia.edu/projects/library-project>

Discussion:

- Which data viz. niche's can you think of? (architecture, design...)
- What are Columbia's CSR strengths and weaknesses and how does these compare with The New School?
- Human living in urban context provide rich data sets. How does this tie in with Major Studio 2 thesis projects?
- What data stories are out there in the world – other countries, rural contexts. Etc.?