Who cares for the environment? Recycling and Composting in Bogotá

Carlos J. Celis

THE NEW SCHOOL
Tishman Environment and Design Center

Who cares for the environment in Bogotá?

Who cares for the environment in Bogotá?

The care crisis

Climate change

Who cares for the environment in Bogotá?

Climate change

Bogotá produces 7,945 tons of trash daily [1]

Climate change

[1] Special Administrative Office of Public Services of Bogotá (2021).


256 Valentine Lane
Yonkers
New York
Jersey City
Hoboken
Newark
Empire State Building
George Washington Bridge
The Met Cloisters
Van Cortlandt Park
Kingsbridge
Washington Heights
Harlem
Bronx
Parkchester
Yankee Stadium
Randall's Island Park
The Metropolitan Museum of Art
Museum of the City of New York
LaGuardia Airport
Queens
Long Island City
Greenwich Village
Lower Manhattan
Williamsburg
Fort Lee
Edgewater
Palisades Park
Teaneck
Englewood
Hackensack
Union City
West New York
North Bergen
Secaucus
Bronxville
Mt Vernon
Pelham Manor
City Island
Orchard Beach
Throgs Neck Bridge
Great Neck
Manhasset
Flushing
Citi Field
Forest Hills Stadium
Newark Liberty International Airport
Liberty State Park
Hudson River
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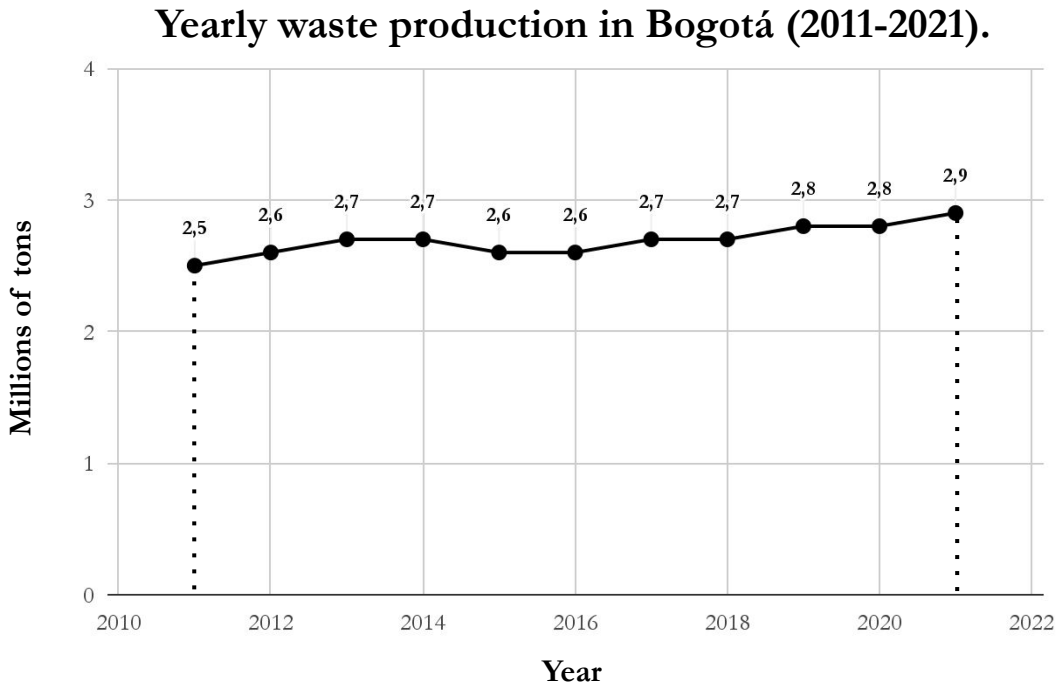
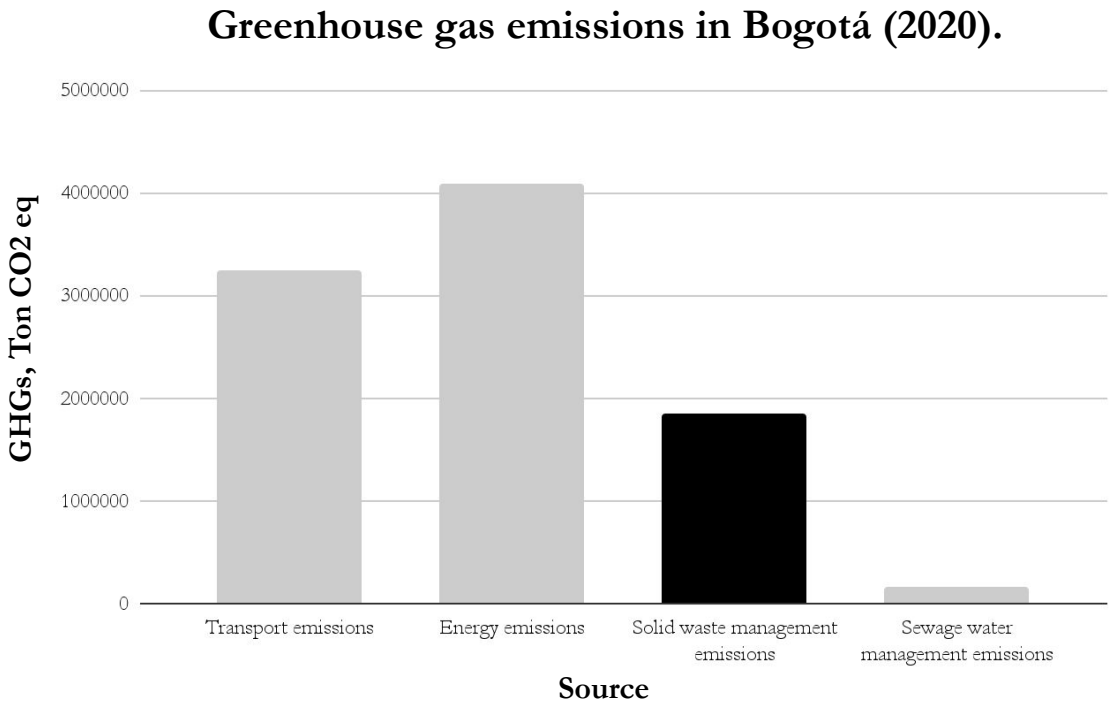
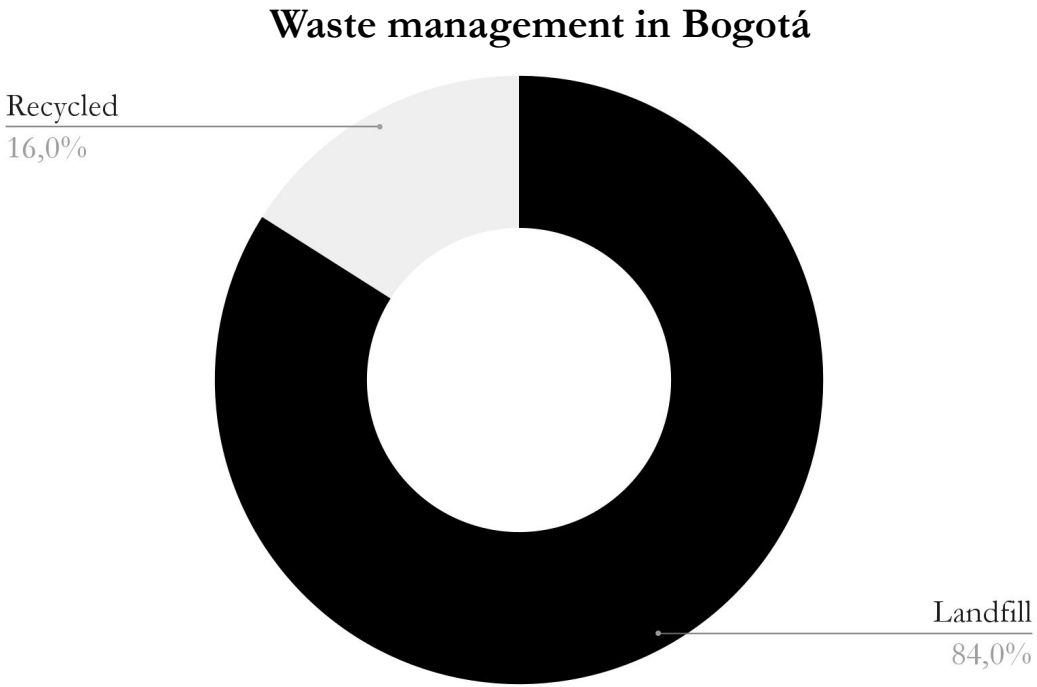
Layers
EASY TAXI
TAXIS LIBRES 3-111



Source: Special Administrative Office of Public Services of Bogotá (2021).



Source: Bogotá's Environmental Affairs Office (2020).



Source: Special Administrative Office of Public Services of Bogotá (2017).

Who cares for the environment in Bogotá?

30,500 informal waste pickers [2]

Care crisis

[2] Florez (2022).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754

Who cares for the environment in Bogotá?

The care crisis

"The majority do not have personal protection elements to carry out their work, they are not affiliated with the social security system that protects them against the various contingencies that may arise, and sometimes they must work much more than 8 hours a day" [3]

Care crisis

[3] Orduz (2022).

(1) increasing demand for care [4] **(2)** a global economic model that systematically "free-rides" [5] care labor or underpays it [6]; **(3)** enormous inequities in terms of who assumes this type of labor. [7]

Care crisis

[4] Dowling (2020), [5] Fraser (2016), [6] Folbre & Smith (2017), [7] Federici (2012).

Consume

Waste

Landfill

Recycle II

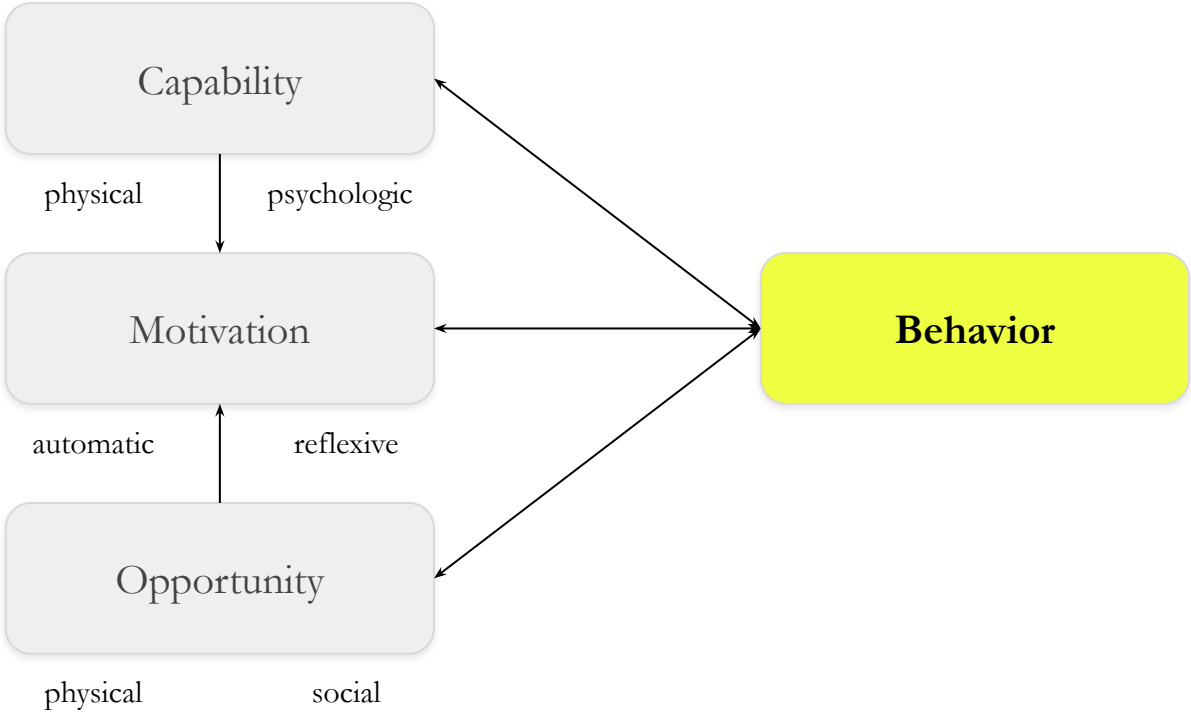
Collection
In the Streets

Recycle I

Separation
in Households and
street.

Statistically representative citywide, 2200 observations, 2% margin of error, and 95% confidence interval.

Source: Bogotá's Cultural Affairs Office (2021).



Source: West & Michie (2020).

$$P(Y) = \frac{1}{1 + e^{-(b_0 + b_1 X_{1i} \ldots + b_n X_{ni})}}$$

(Y_1) Recycling
(Y_2) Composting

(X) Factors

(Step 1) Following the literature review, selected the factors, **(Step 2)** cross tables and Chi2; **(Step 3)** Logistic regression.

Adaptation from Field et al., 2012, p. 314

recycle
compost

predict

(1) female, **(2)** no prejudices, **(3)** senior, **(4)** belief_impact, **(5)** lvl_4, **(6)** animals, **(7)** university.

Dependent variable

Independent variables (factors)

Variable	Coef	Exp(Coef)	Std. Err.	Z value	Pr(>|z|)	VIF
(Intercept)	-0.85062	0.4271515	0.19696	-4.319	1.57e-05 ***	
female	0.01209	1.0121626	0.10825	0.112	0.911079	1.011325
noprejudices	0.41024	1.5071778	0.14326	2.864	0.004190 **	1.023315
senior	0.91725	2.5024031	0.12845	7.141	9.28e-13 ***	1.030936
belief_impact	0.27023	1.3102609	0.12078	2.237	0.025262 *	1.021971
k_product	0.70739	2.0286993	0.12915	5.477	4.32e-08 ***	1.010330
lvl_4	0.60496	1.8311753	0.17421	3.472	0.000516 ***	1.048912
animals	0.29049	1.3370796	0.10938	2.656	0.007912 **	1.013666
university	0.55245	1.7375132	0.13598	4.063	4.85e-05 ***	1.045502

Notes	Signif. codes: 0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1
Nagelkerke R^2	0.109
P-value, Hosmer & Lemeshow test	0.1932
Accuracy	0.72268
ROC AUC	0.67

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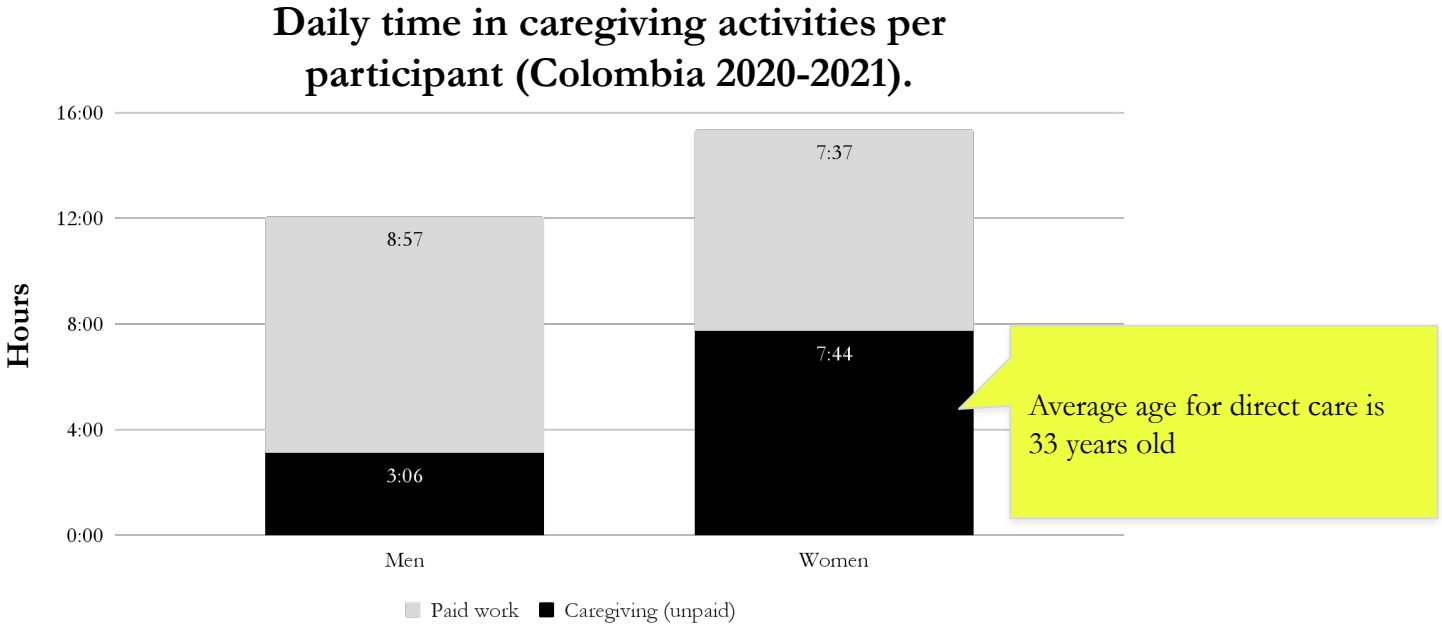
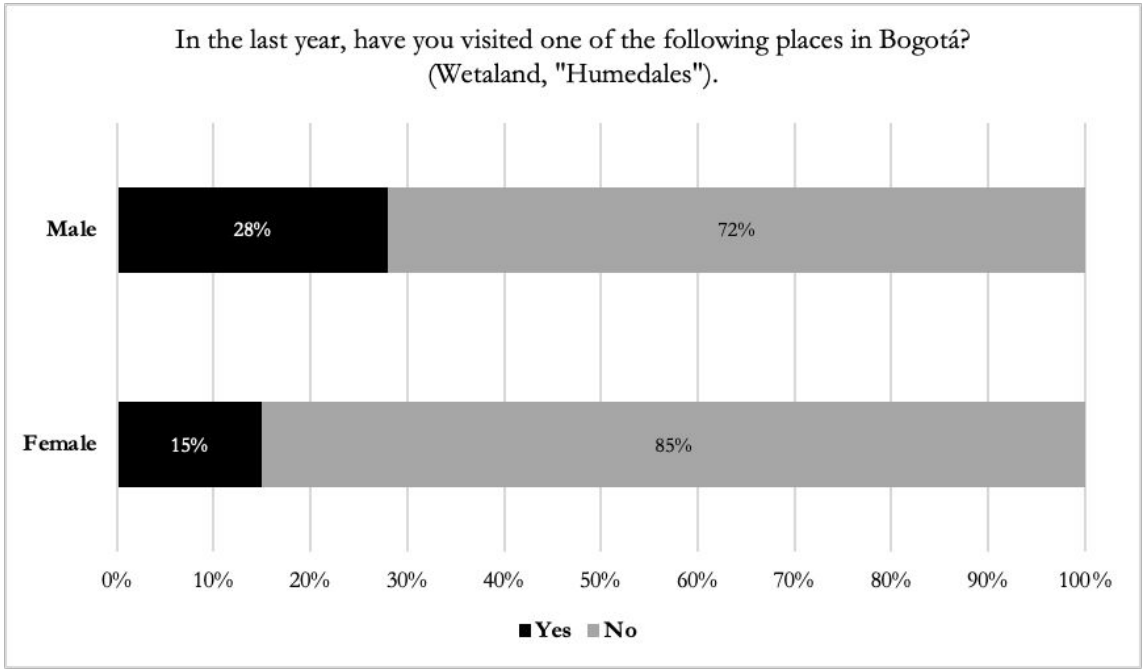
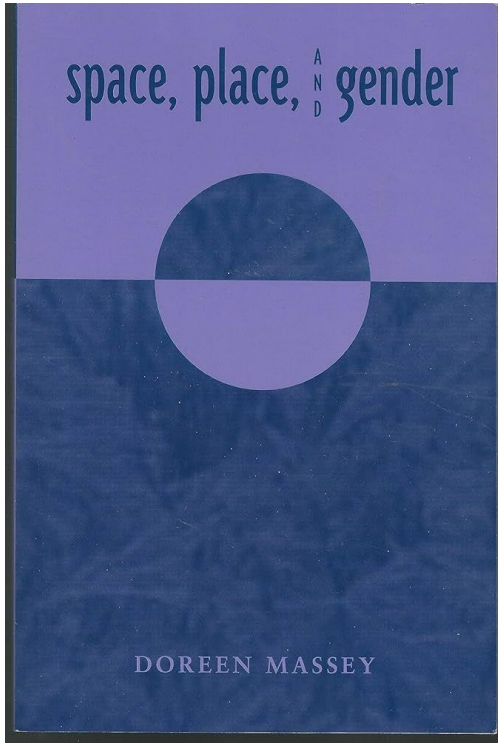
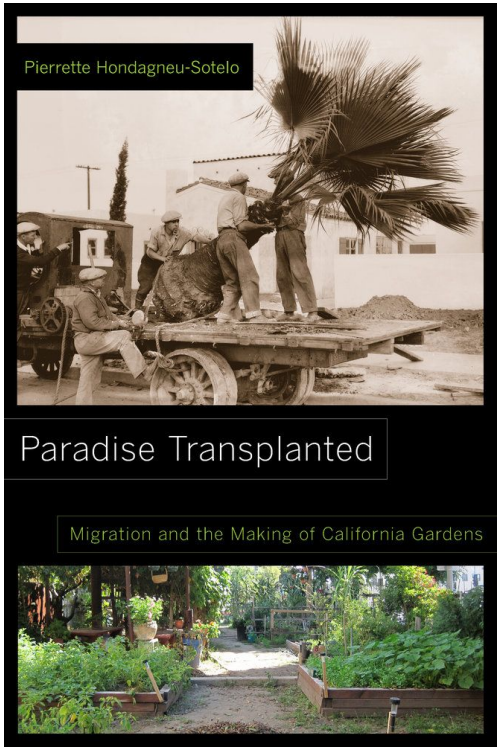


Source: National Survey of Use of Time, DANE (2020).



Source: Executive Document Environmental Culture Survey (2021).


space, place, AND gender
DOREEN MASSEY


Pierrette Hondagneu-Sotelo
Paradise Transplanted
Migration and the Making of California Gardens

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people living with animals are 1.3 more likely to recycle

Independent variable

"companion species [for instance, dogs and humans] infect each other all the time…for good and for ill. Bodily ethical and political obligations are infectious, or they should be"

Donna Haraway (2016, p. 29)


57% lives with animals (ECA, 2021)
48% consider animals “sensitive life beings with emotions” (ECA, 2021)

Thanks!