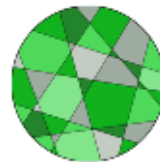


# Green areas use during a lockdown in Croatia caused by a Covid-19 pandemic



Ana Marija Marin, Martina Kičić, Dijana Vuletić, Silvija Krajter Ostoić  
Department for International Scientific Cooperation in Southeast Europe –  
EFISEE  
Croatian Forest Research Institute

# Introduction

- Sudden changes locally and globally
- **March 16, 2020** - Decision on the suspension of teaching at higher education institutions, secondary and primary schools and the regular operation of preschool and distance education institutions
- Reduced interpersonal contact
- Decline in daily migrations
- How does the new situation affect the use of green areas?



# Material and methods

- Network questionnaire designed in early March 2020.
  - Institute of Bioeconomics of the Italian National Research Council
  - University of Bari, Italy
  - Ben-Gurion Negev University, Israel
  - 30 - 45 closed and open questions (additional questions related to yes / no answers)
- Conducted in Croatia, Israel, Italy, Lithuania, Slovenia and Spain
- From April 17 to May 4, 2020.
- Respondents residing in the Republic of Croatia
- Statistical processing
- Interpretation



Section 1 of 9

Upitnik: Korištenje gradskih zelenih površina u svjetlu ograničenja kretanja zbog COVID-19

Ovaj upitnik je rezultat međunarodnog istraživanja kojem je cilj ispitati ponašanje, stavove i razmišljanja građana o korištenju zelenih površina u svjetlu mjera ograničenja kretanja zbog COVID-19. Istraživanje se osim u Hrvatskoj istovremeno provodi u Italiji, Izraelu, Sloveniji, Španjolskoj, te nekoliko gradova u Sjedinjenim Američkim Državama. Ispunjavanje upitnika traje otprilike 15 minuta.

Upitnik je u potpunosti anonimn. Traženi sociodemografski podaci koristit će se isključivo u statističke svrhe, a za izvještavanje rezultata koristit će se zbirni rezultati. Upitnik su razvili talijanski istraživači, a u Hrvatskoj ga provodi Hrvatski šumarski institut. Za sva pitanja vezana za upitnik slobodno se obratite dr.sc. Silviji Krajter Ostoić (silvijak@sumins.hr) ili Ani Mariji Marin, mag.ing silv. (anamari@sumins.hr).

Pročitao/pročitala sam informaciju o načinu obrade i korištenja podataka na ovom linku: <https://drive.google.com/file/d/1hB2scQthSCZ9cC2Xw4pzVAjJlRaeugu4l/view?usp=sharing>

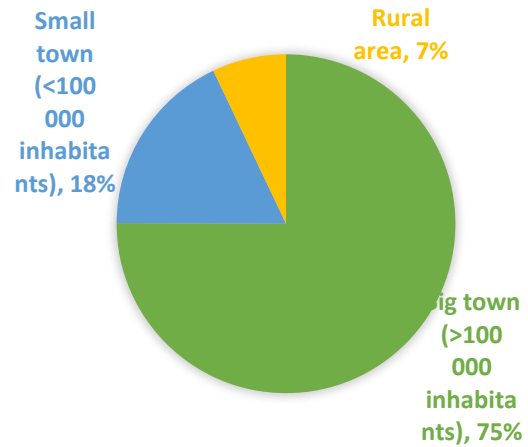
Da

1.1 Gdje živite? \*

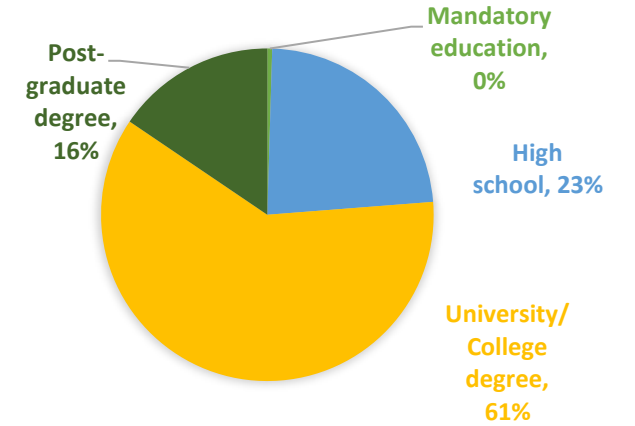
# Results

## Socioeconomic characteristics of respondents

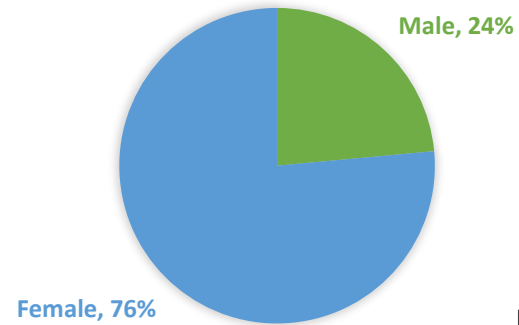
### Residence place



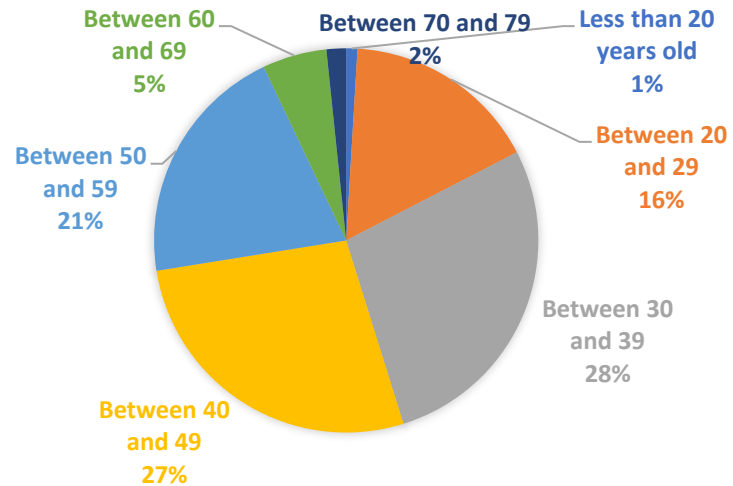
### Education



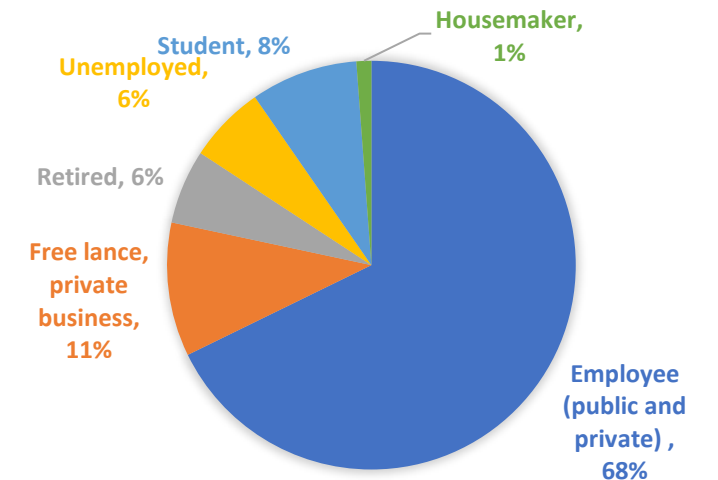
### Gender



### Age

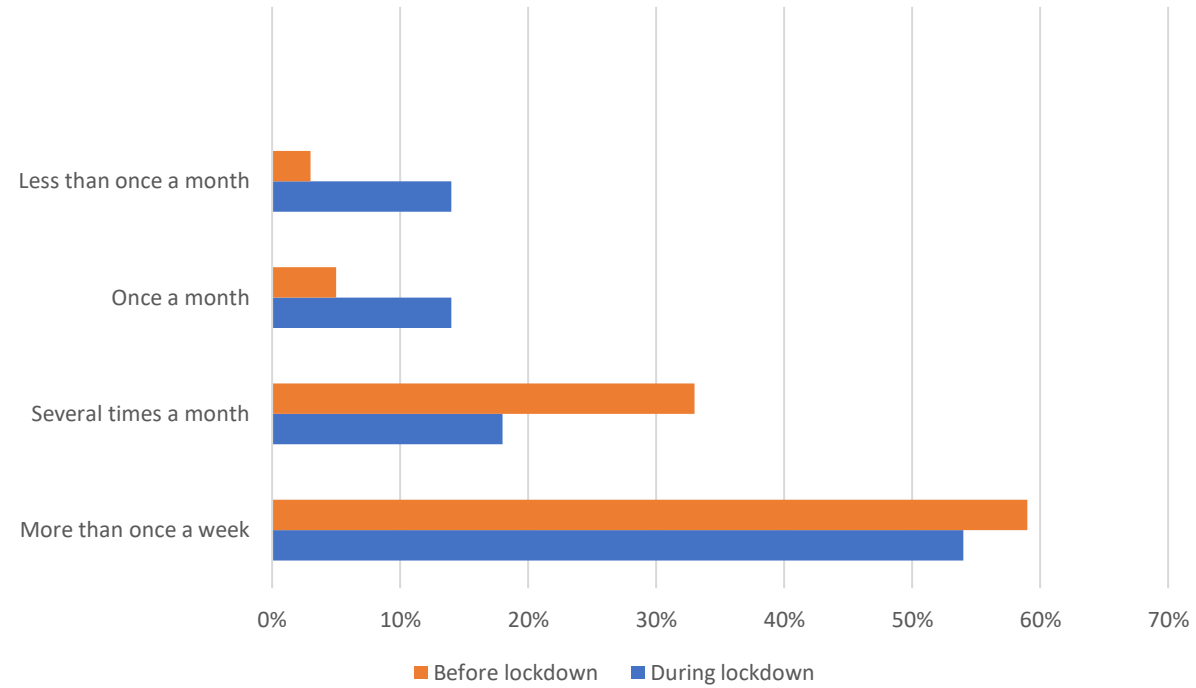


### Employment



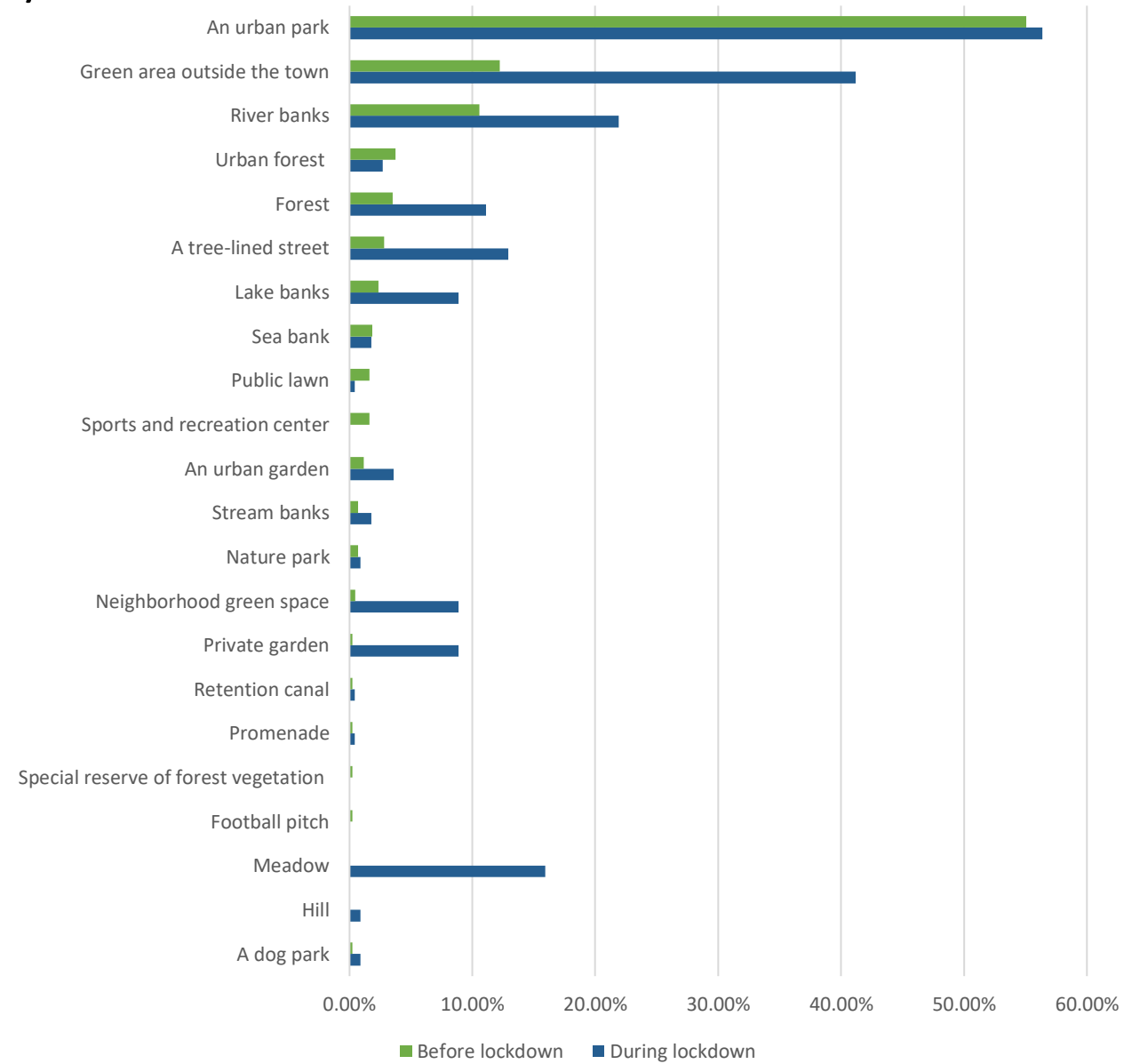
# Results

How often do they visit green areas?



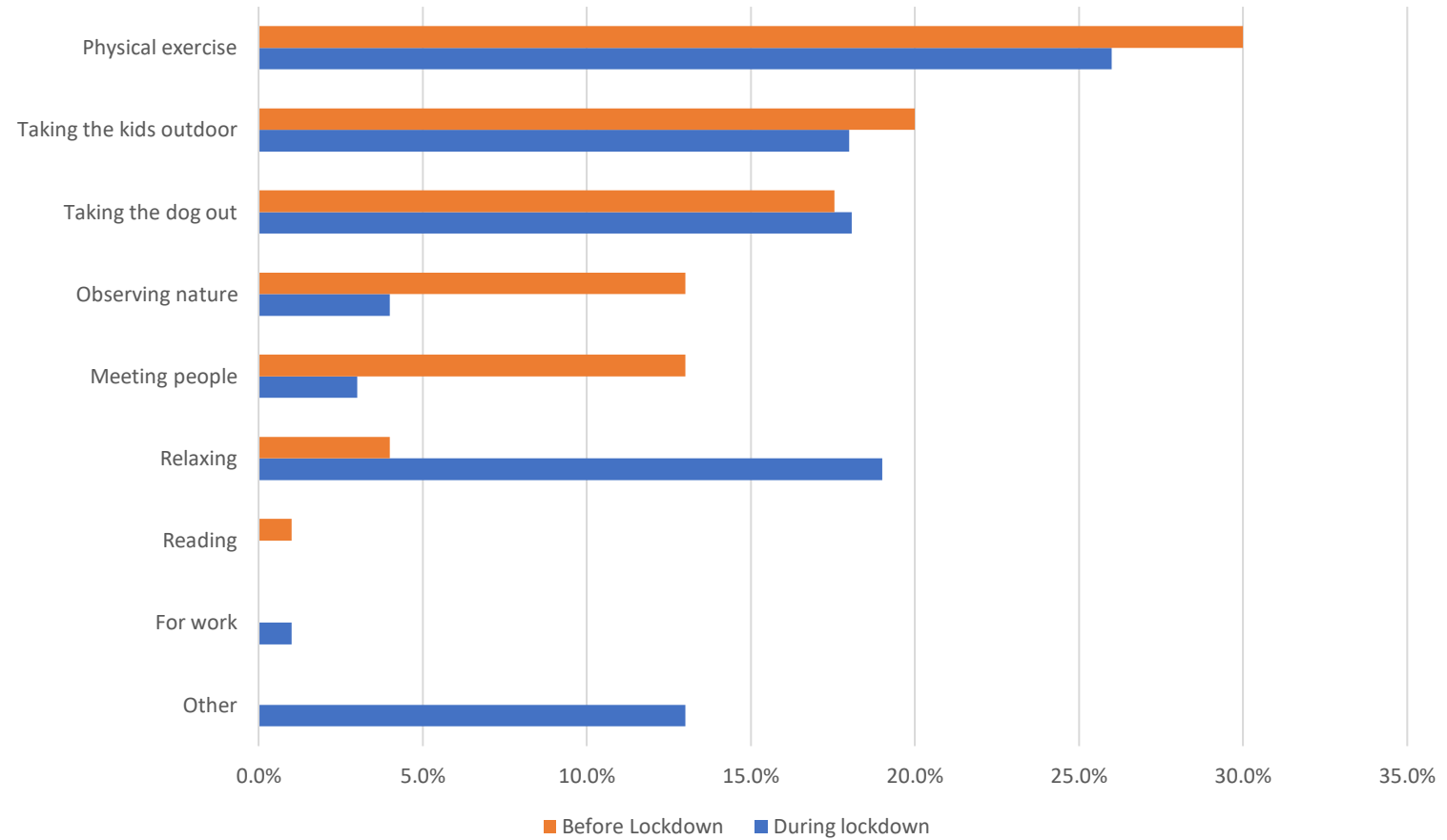
# Results

## What green areas do they visit?



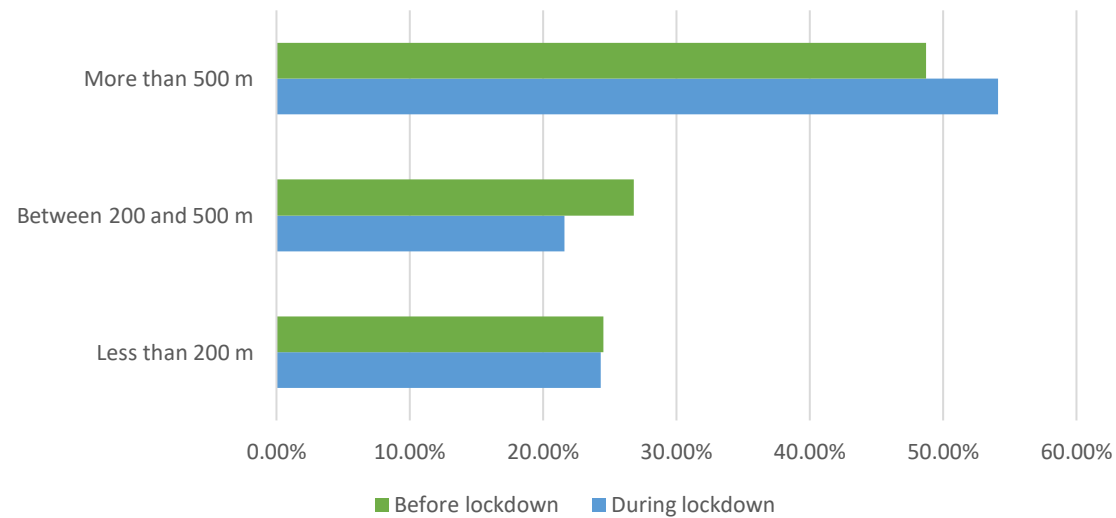
# Results

## For what reasons do they visit green areas?

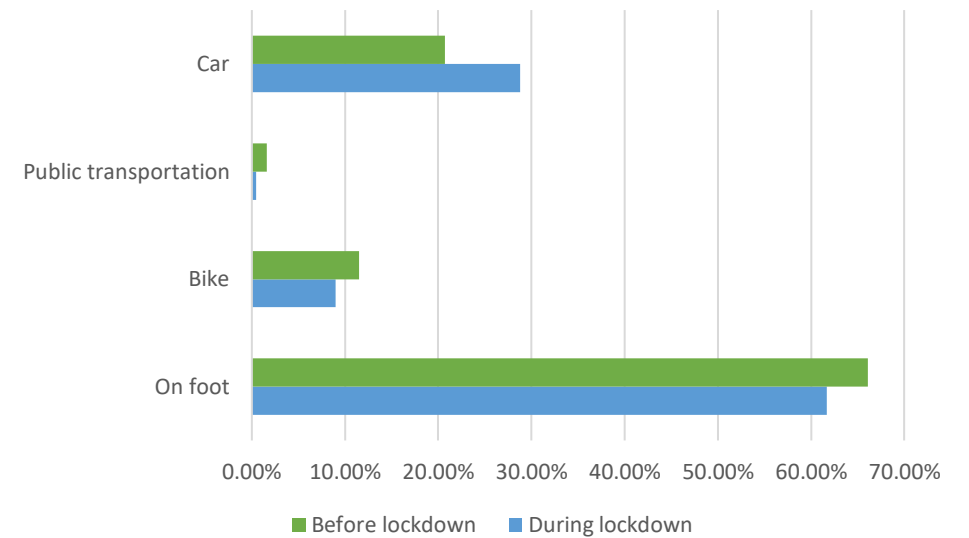


# Results

The distance respondents travel to visit desired green areas



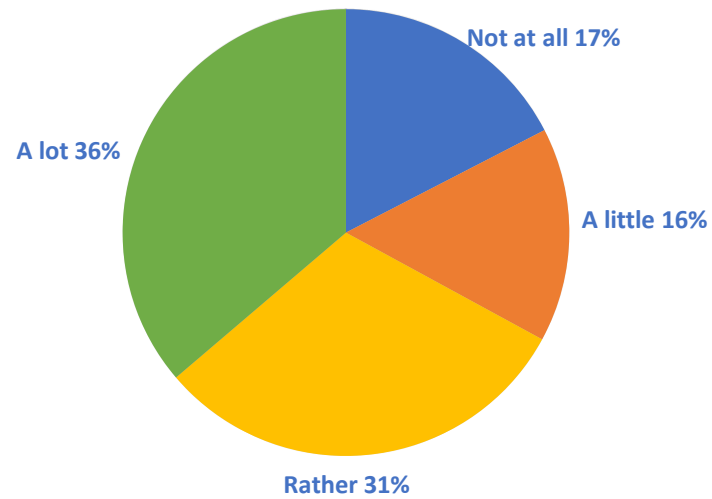
How they travel to the selected green area



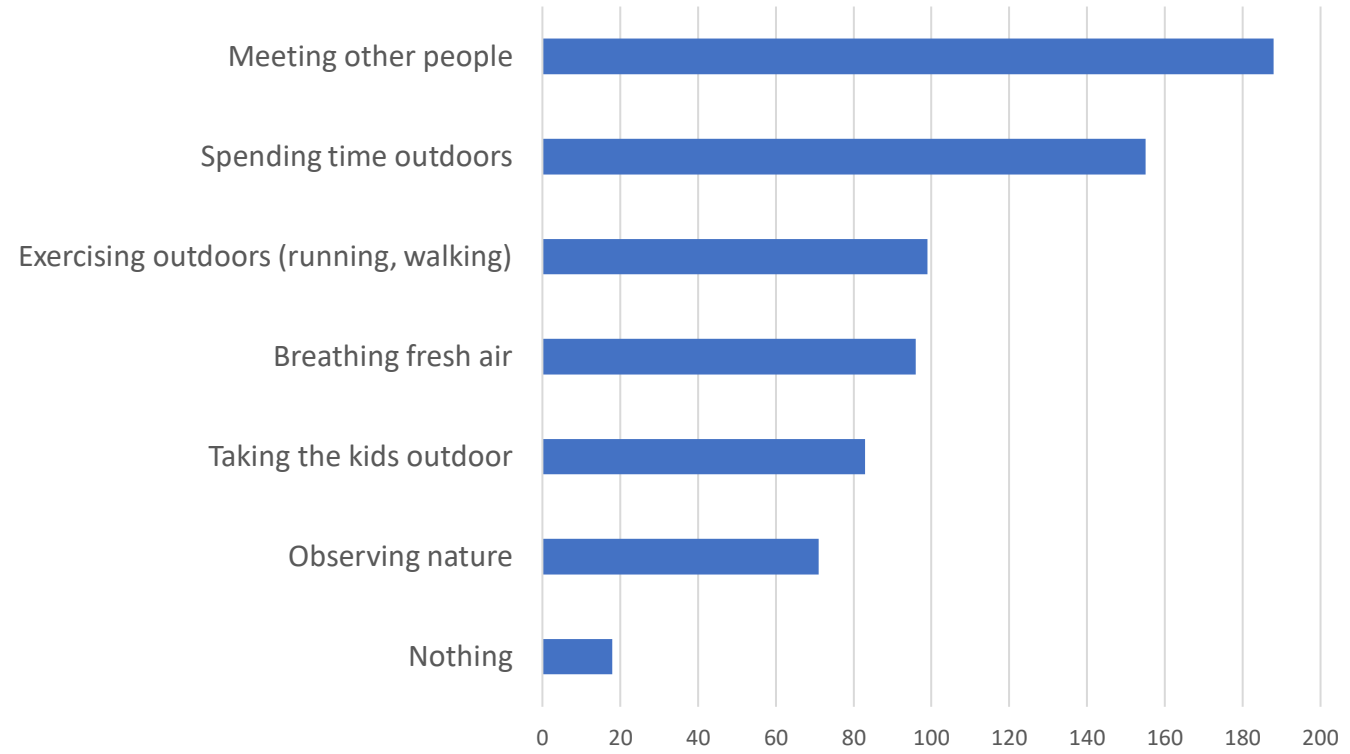


# Results

Do respondents miss visiting green areas during lockdown?



What are they missing?



# Conclusion

## Changes in the behavior and perception of the respondents towards the green areas that surround them were observed

- Frequency of visits: a decrease in visits once a week and an increase in visits once a month and less than once a month
- Most visited areas before and during lockdown: City parks
  - Significant increase in attendance of green areas outside the city, river banks, meadows, lake shores, forests, and greenery around residential buildings
- Reasons to visit green areas: Relaxation, taking children to nature, walking dogs, exercising
- 67% of respondents stated that they miss green areas during lockdown
  - Meeting other people, spending time outdoors, exercising in nature



# Literature

- Capolongo, S.; Rebecchi, A.; Buffoli, M.; Appolloni, L; Signorelli, C.; Fara, G.M.; D'Alessandro, D., 2020. COVID-19 and cities: From urban health strategies to the pandemic challenge. a decalogue of public health opportunities. *Acta Biomedica*, 91(2): pp. 13–22.
- Chakraborty, I. and Maity, P., 2020. COVID-19 outbreak: Migration, effects on society, global environment and prevention. *Science of the Total Environment*. Elsevier B.V., 728, 138882, doi: <https://doi.org/10.1016/j.scitotenv.2020.138882>
- Krajter Ostoić, S., Kičić, M., Marin, A.M., Vuletić, D. 2019. Kulturne (kulturološke) usluge urbane zelene infrastrukture. *Hrvatske šume*, 28-30. Preuzeto s <http://casopis.hrsume.hr/pdf/270.pdf#page=30> (12.10.2020.)
- Krajter Ostoić, S., Marin, A. M., Kičić, M., Vuletić, D. 2020. Qualitative Exploration of Perception and Use of Cultural Ecosystem Services from Tree-Based Urban Green Space in the City of Zagreb (Croatia). 1–21
- Reese, G.; Hamann, K.R.S.; Heidbreder, L.M.; Loy, L.S.; Menzel, C.; Neubert, S.; Tröger, J.; Wullenkord, M.C., 2020. SARS-Cov-2 and environmental protection: A collective psychology agenda for environmental psychology research. *Journal of Environmental Psychology*, 70(April), 101444, doi: <https://doi.org/10.1016/j.jenvp.2020.101444>

# Thank you for your attention

Contact information:

Ana Marija Marin  
e-mail: [anamari@sumins.hr](mailto:anamari@sumins.hr)

