Do People Care about the Origin of Wildlife? The Role of Social Stereotypes on Public Preference for Exotic Animals

Rocio Alejandra Díaz 1, Verónica Sevillano 2 and Marcelo Hernán Cassini 1,*

1 Laboratory of Biology of Behavior, Institute of Biology and Experimental Medicine, Consejo Nacional de Investigaciones Científicas y Técnicas, Buenos Aires 1429, Argentina
2 Department of Methodology and Social Psychology, Faculty of Psychology, Campus of Cantoblanco, Universidad Autónoma de Madrid, 28049 Madrid, Spain
* Correspondence: mhcassini@yahoo.com.ar

Simple Summary: Many species have been introduced to regions outside their original habitat range. These non-native species are of great concern to conservation biologists, because they are considered to be dangerous to native species and ecosystems. However, the general public does not always agree with this appreciation and therefore conflicts are generated when trying to manage non-native species. This is one reason as to why it is important to understand the human dimension of this problem. We asked a group of college students about their favorite free-living animals and found that most preferred non-native species. To explain this result, we applied the theory of social animal stereotypes.

Abstract: People’s attitudes to animals are becoming increasingly important for the success of invasive species management. We asked college students from Argentina to fill a questionnaire that included a question about their favorite free-living animal. A total of 159 responses were obtained. Native species were significantly less preferred than non-native species. We tested if these preferences were associated with animal stereotypes. The stereotype hypothesis predicts that animals from the contemptible stereotype (invertebrate, rodents, and reptiles) should be the least preferred taxa, and animals from the protective stereotype (pets, horses, and primates) should be the most preferred taxa; animals from the subordination (lagomorphs and birds) and threatening–awe stereotype (large carnivores) should show intermediate preferences. The first prediction was supported. However, students showed significant preference for non-native taxa included in the threatening–awe stereotype. We proposed that people prefer large carnivores (stereotypically strong, intelligent, and beautiful animals) when they are exotic, because they did not represent a risk.

Keywords: social stereotypes; non-native species; animals

1. Introduction

Many species have been introduced into regions outside their native habitat range. Many of these non-native species are harmless, but others can cause different degrees of damage to biodiversity and natural ecosystems [1]. Non-native species are defined as “invasive” when they threaten biodiversity, food security, health, or economic development [2]. For decades, invasive non-native species have been considered the second greatest threat to global biodiversity after habitat destruction [3]. They are also considered a major cause of economic losses worldwide [4]. Nevertheless, there is not a universal consensus among scientists around the native-non-native dichotomy. Davis et al. [5] published a seminal paper with a compelling title: ‘Don’t judge species on their origins’. The authors urged conservationists and land managers to focus much more on the functions of species rather than on where they are native or non-native. In recent years, the debate has intensified [3,6–9].
The social dimension of non-native species has been intensively investigated (reviewed by [10–14], among others). Attitudes to animals and their management are becoming increasingly important for the success of conservation and environmental initiatives [15]. One of the reasons is that conflicts frequently occur between different social actors. Several values, beliefs, or attitudes in relation to animals can determine different responses to the removal of non-native species that cause damage. While conservation biologists tend to agree that harmful species should be controlled, there are many non-specialists who do not consider these species to be a problem and are even opposed to the animals being eliminated [16–24].

In this study, we analyzed possible psycho-social factors involved in the preference of lay people about non-native species. A questionnaire was provided to students and recent graduates of psychology at the University of Buenos Aires, Argentina. This group can be considered as non-specialists regarding the invasive species issue. Among a variety of questions, we included: “which free-living animal do you like the most?”. We then separated preferred species according to whether they were native or exotic. This approach is different from the usual method in which the public is asked to select among an a priori list of species (e.g., [24–28]).

We tested the hypothesis of social animal stereotypes to explain preferences for animals. Some animal species are more positively perceived than others based on the characteristics socially attributed to them (i.e., social stereotype), which are not related to species origin but to the role of animals in society. Sevillano and Fiske [29] applied the Stereotype Content Model [30] to human-animal relationships. They defined four animal stereotypes: subordination (high warmth and low competence), threatening–awe (low warmth and high competence), contemptible (low warmth and low competence) and protective (high warmth and high competence) (Figure 1). They grouped animal species in accordance with these four categories: farm animals, lagomorphs, and birds are perceived similarly and were grouped in the subordination stereotype; large carnivores are included in the threatening–awe stereotype; invertebrate, rodents, and reptiles in the contemptible stereotype; and pets, horses, and primates, in the protective stereotype. Arguably, the beliefs associated with animal species can be ranked in relation to these four stereotypes [31]: the protective type is expected to include the most preferred animals because they elicited high ratings in both dimensions. The threatening–awe and subordination species should show an intermediate level of preference because of their ambivalent nature, with a positive perception in one dimension and a negative one in the other. The contemptible type should bring together the least preferred species because both dimensions show low ratings.

![Figure 1. Sevillano and Fiske’s [29] model of animal stereotypes. Description in the Introduction.](image-url)
2. Methods

Data were collected at the Faculty of Psychology of the University of Buenos Aires by the first author (RAD). Each respondent was asked to participate voluntarily in the study, providing informed consent in order not to compromise the confidentiality and anonymity of their data (Table A1). The questionnaire included questions about demographic characteristics and environmental concerns that were analyzed in another publication [32]. This paper analyzes the answers obtained to the question about which free-living animal the respondents preferred. The responses to this open question were categorized according to two criteria: (i) whether the preferred species were native or exotic to Argentina and (ii) to which social stereotype the preferred species belonged.

Native species are those belonging to Argentinean fauna [33]. We used Darwin’s [34] definition of domestic animals, i.e., species that are the result of artificial selection processes. Domestic species were considered non-native or exotic species. When a response refers to a taxonomic category (e.g., felids) which includes species that could be both native and non-native, the response was categorized as ‘both’. Other methodological details can be found in Appendices A and B.

3. Results

A total of 159 responses of preferred species were obtained (Appendix C). Native species were significantly less preferred than non-native species, both when measured as frequencies of responses ($\chi^2 (2) = 89.9, p < 0.00001$) (Figure 2A) or number of preferred species ($\chi^2 (2) = 10.9, p < 0.004$) (Figure 2B). Among the first ten most preferred species (out of a total of 49 preferred species), seven were non-native (tiger, lion, horse, elephant, wolf, bear, and dog), three could be both native and non-native (deer, birds, and felids), and none were native. However, people who had the experience of living or those who already lived in the countryside showed a greater preference for native species than those who have always lived in the city (Figure 3, $\chi^2 (2) = 7.1, p < 0.028$).

![Figure 2.](image-url) (A) Frequencies of responses and (B) number of different taxa, when the preferred species was a non-native taxon, a native taxon, or a taxon that could be regarded as both native and non-native species.
There was a pattern of most preferred animals linked to the type of stereotype associated with the animal species. The most preferred species belonged to the threatening-awe stereotype and the least preferred animals were those belonging to the contemptible stereotype ($\chi^2 (3) = 58.0, p < 0.00001$) (see Figure 4). The species associated with the other two stereotypes showed intermediate preference.

4. Discussion

Respondents expressed a strong preference for non-native species. This result agrees with those obtained in previous studies that found positive attitudes of non-experts towards non-native species. Boshoff et al. [35] found that most visitors to the Addo Elephant National Park in South Africa accepted the park having non-native species. Farnworth et al. [22] described substantial differences on the attitude towards the lethal control of eight non-native species in Australia: while conservationists routinely considered all species deserved...
control, the general public provided the lowest scores. Complementarily, the native nature of animals was not a main factor for non-experts. Fischer et al. [28], through a survey in eight sites across Europe, found strong relationships between beliefs about species and their control, in particular regarding their harmlessness and the desirability of an increase in this species. Other beliefs, such as perceived nativeness, were less influential. Moskwa [36] found that tourists did not show significant differences in their opinion regarding culling non-native and native species and only changed their opinion when given information regarding why animals may be culled. Nate et al. [37] found that young Argentinian rural student’s preferences and perceptions were strongly directed towards 18 non-native domestic species. Remmele and Lindemann-Matthies [38] found that German students perceived invasive alien species as beautiful and desired, especially mammals. In a study on student attitudes towards potential animal flagship species in Switzerland, Schlegel and Rupf [39] commented that, before the project started, most children showed preference for pets and exotic animal species. In North Carolina, USA, Schuttler et al. [40] found that children, whether they lived in urban or rural areas, preferred non-native mammals and were more likely to list local animals as scary than as liked. Ballouard et al. [41] found that French schoolchildren were more prone to protect exotic rather than local animal species.

The preference for animals varied significantly according to the four types of stereotypes. As predicted by Sevillano and Fiske [29], animals included in the contemptible stereotype were the species less frequently selected as the most preferred, while those included in the subordinate stereotype occupied an intermediate position. Instead, the expected result was not obtained for the other two types: the most preferred animals were those of the threatening–awe stereotype, while those of the protective stereotype showed intermediate frequencies. This mismatch in predictions may have been due in part to the way the question was asked, as only a preference for ‘free-living’ species was requested. Bearing in mind that several species included in the protective stereotype are domestic and can live in captivity, it could be possible that their lower representation was due to this bias in the question. Nevertheless, there were students who answered that their preference was for domestic animals such as dogs, cats, and horses, and these data were included in the analysis. Even with this methodological limitation, the remarkable preference for exotic wild species belonging to the threatening–awe stereotype requires an additional ad-hoc explanation.

Previous research indicated that people could have negative beliefs or emotions towards the animals included in the threatening–awe stereotype. For example, Jürgens and Hackett [42] proposed that negative feelings toward wolves are in part associated with aspects of wolf behavior, which corresponds to the human understanding of the notion of evil, due to a stereotype that may help fuel the heated societal debates about wolves. Sevillano et al. [43] identified spontaneous stereotypes of large carnivores in Spaniards that also included negative components. Therefore, we expected a medium or low preference for the animals included within the threatening–awe stereotype. However, species that do not inhabit the Neotropics such as tigers, lions, elephants, and wolves occupied the highest positions within the ranking of most preferred species of our interviewees. We propose an ad-hoc hypothesis for this unexpected preference, described in the following paragraph.

According to Sevillano and Fiske’s [29] model, each animal stereotype is defined by two socio-perceptive axes: warmth and competence (Figure 1). The threatening–awe stereotype is applied to species that are characterized by low warmth and high competence. On the one hand, they are perceived as unfriendly and even dangerous animals but, on the other hand, they are considered intelligent, strong, and beautiful (Sevillano et al. [43]). We propose that the low warmth component would be less accentuated in those countries where the species are exotic due to the fact that they would never represent a real danger for people as they do not inhabit the regions near them. Direct contact with these animals can only occur in zoos, where a distorted image of their dangerousness is fostered, since caged animals are perceived as tame and passive compared to animals in the wild [44]. In contrast, these non-native animals are salient in Western societies, since they are frequently used...
as symbols of strength, agility, or intelligence [37]. Based on this hypothesis, we propose that the preference for non-native animals belonging to the threatening–awe stereotypes expressed by the Argentine public is due to the fact that, in places where these species do not naturally inhabit, values of warmth and competence increase in relation to those places where these species are native. In other words, our findings suggest that the exotic origin of a species could favor the development of species preferences by overshadowing their negative traits.

5. Conclusions

The results of this study may have relevance in the management of animal diversity. Even when the importance of the human dimension in this management has long been recognized, invasion biology is still dominated by a ‘top-down’ approach in which ‘experts’ define the problem, evaluate the evidence and management options, and advise decision makers, who must then persuade ‘the public’ to accept their decisions, justifications, and supporting evidence [19,45]. It is difficult to imagine that this top-down approach would work in a context in which lay people have strong preferences for non-native species or express favorable emotions towards species that should be eliminated, because they would be causing harm. This difficulty will be even greater if those preferences, opinions, emotions, or attitudes towards non-native species are based on deep psychological mechanisms such as moral principles or social stereotypes. Furthermore, if the opinion of the non-experts coincided in downplaying the geographical origin of the species, the experts should reanalyze the validity of the axiom that non-native species are all potentially harmful. The message given by the public in this study and others appears to be that conservationists should be worried about the negative impacts of species independent of their native status.

Author Contributions: R.A.D.: methodology, investigation and review, V.S.: conceptualization, methodology, supervision, review, M.H.C., writing—original draft preparation, editing, conceptualization. All authors have read and agreed to the published version of the manuscript.

Funding: V.S. was supported by a financial aid from Universidad Autónoma de Madrid.

Institutional Review Board Statement: The research protocol was approved by the Institutional Review Board of the Faculty of Psychology, University of Buenos Aires (date of approval: 8/8/2018, without code number).

Informed Consent Statement: Informed consent was obtained from all subjects involved in the study.

Data Availability Statement: Data provided in the Appendices.

Conflicts of Interest: The authors declare no conflict of interest.

Appendix A. Details on Methodology

Appendix A.1. Data Collection

We conducted a face-to-face questionnaire (in Spanish) that consisted of three parts:

1. Demography, ideology and habits: includes data on age, sex, number of children, current situation (student or graduate), place of residence (city of Buenos Aires or department of the so-called Greater Buenos Aires), other activities, previous residence in the countryside or small towns, political ideology, religion and type of diet.

2. Questions about environmental problems: severity level, most worrying problem among a list of three, reason for concern, garbage recycling behavior and reasons associated with recycling.

3. Animal issues: current and past animal ownership, type, reasons for ownership, degree of agreement with consumption of wild animals other than fish and shellfish, degree of agreement with consumption of cats and dogs and rats, preference for wild animals (open question), feelings of fear towards some type of animal, associated reasons, feelings of disgust towards some type of animal, associated reasons, opinion about zoos and associated reasons.
Appendix A.2. Data Processing

The data were collected in the three branches of the Faculty of Psychology of the University of Buenos Aires, by one of the authors (RAD). Each participant was asked to participate voluntarily in the study, providing informed consent in order not to compromise the confidentiality and anonymity of their data. Once the data was collected, they were subjected to various statistical analyzes using the Statistica 10.0.2 software (StatSoft Europe, Hamburg, Germany).

Appendix B

Table A1.Demographic parameters and other respondent characteristics (modified from Díaz et al. [32]).

| Question                                      | %    |
|-----------------------------------------------|------|
| Student?                                      | 95.3 |
| Over 24 years old?                            | 49.7 |
| Woman?                                       | 52.1 |
| Have children?                                | 8.9  |
| Lived in the countryside?                    | 20.0 |
| Politically leftist?                          | 28.3 |
| Religious person?                             | 19.6 |
| Vegetarian?                                   | 9.0  |
| Activity linked to the environmental problems?| 0.6  |
| Pets in the past?                             | 95.3 |
| Pets now?                                     | 68.3 |
| Density (inhabitants/km\(^2\))?               |      |
| 0 to 10                                       | 0.0  |
| 10 to 100                                     | 1.2  |
| 100 to 1000                                   | 4.2  |
| 1000 to 5000                                  | 16.4 |
| More than 5000                                | 78.2 |

Appendix C

Table A2. Species, number of positive responses, taxa, type of stereotype and nativeness. ’Both’ refers to cases in which a species was not defined but a taxon that could include both native and non-native species.

| Species       | N  | Taxa  | Stereotype | Nativeness |
|---------------|----|-------|------------|------------|
| Tiger         | 28 | Mammal| Threatening| No-native  |
| Lion          | 20 | Mammal| Threatening| No-native  |
| Bird          | 10 | Mammal| Subordinate| Both       |
| Deer          | 8  | Mammal| Subordinate| Both       |
| Horse         | 7  | Mammal| Protective | No-native  |
| Elephant      | 6  | Mammal| Protective | No-native  |
| Wolf          | 6  | Mammal| Threatening| No-native  |
| Bear          | 5  | Mammal| Threatening| No-native  |
| Felines       | 5  | Mammal| Threatening| Both       |
| Dog           | 4  | Mammal| Protective | No-native  |
| Primate       | 4  | Mammal| Protective | Both       |
| Hare          | 3  | Mammal| Subordinate| No-native  |
| Panda         | 3  | Mammal| Subordinate| No-native  |
| Fox           | 3  | Mammal| Threatening| Both       |
| Dolphin       | 3  | Mammal| Protective | Both       |
| Chameleon     | 2  | Reptile| Contemptible| No-native  |
| Cat           | 2  | Mammal| Protective | No-native  |
| Chimpanzee    | 2  | Mammal| Protective | No-native  |
| Hedgehog      | 2  | Mammal| Subordinate| No-native  |
| Rabbit        | 2  | Mammal| Subordinate| No-native  |
Table A2. Cont.

| Species            | N  | Taxa   | Stereotype | Nativeness |
|--------------------|----|--------|------------|------------|
| Koala              | 2  | Mammal | Subordinate| No-native  |
| Panther            | 2  | Mammal | Threatening| No-native  |
| Puma               | 2  | Mammal | Threatening| Native     |
| Coati              | 2  | Mammal | Protective | Native     |
| Jaguar             | 2  | Mammal | Threatening| Native     |
| Gecco              | 1  | Mammal | Contemptible| No-native  |
| Axolotl            | 1  | Amphibian| Contemptible| No-native  |
| Komodo dragon      | 1  | Reptile| Contemptible| No-native  |
| Lynx               | 1  | Mammal | Threatening| No-native  |
| Squirrel           | 1  | Mammal | Subordinate| No-native  |
| Sparrow            | 1  | Bird   | Subordinate| No-native  |
| Giraffe            | 1  | Mammal | Subordinate| No-native  |
| Platypus           | 1  | Mammal | Subordinate| No-native  |
| Cow                | 1  | Mammal | Subordinate| No-native  |
| Goose              | 1  | Bird   | Subordinate| No-native  |
| Raccoon            | 1  | Mammal | Protective | No-native  |
| Snake              | 1  | Reptile| Contemptible| Both       |
| Rodents            | 1  | Mammal | Contemptible| Both       |
| Fish               | 1  | Fish   | Contemptible| Both       |
| Turtle             | 1  | Reptile| Subordinate| Both       |
| Duck               | 1  | Bird   | Subordinate| Both       |
| Whale              | 1  | Mammal | Threatening| Both       |
| Seals              | 1  | Mammal | Protective | Both       |
| Capybara           | 1  | Mammal | Subordinate| Native     |
| Llama              | 1  | Mammal | Subordinate| Native     |
| Parrots            | 1  | Bird   | Subordinate| Native     |
| Otter              | 1  | Mammal | Subordinate| Native     |
| Anteater           | 1  | Mammal | Subordinate| Native     |
| ‘Hurón’            | 1  | Mammal | Threatening| Native     |

References

1. Williamson, M. Biological Invasions; Chapman and Hall: London, UK, 1996.
2. Jeschke, J.M.; Heger, T. (Eds.) Invasion Biology: Hypotheses and Evidence; CABI: Wallingford, UK, 2018; Volume 9.
3. Simberloff, D.; Souza, L.; Nuñez, M.A.; Barrios-Garcia, N.M.; Bunn, W. The natives are restless, but not often and mostly when disturbed. Ecology 2012, 93, 598–607. [CrossRef] [PubMed]
4. Pimentel, D.; Rodolfo, Z.; Doug, M. Update on the environmental and economic costs associated with alien-invasive species in the United States. Ecol. Econ. 2005, 52, 273–288. [CrossRef]
5. Davis, M.A.; Chew, M.K.; Hobbs, R.J.; Lugo, A.E.; Ewel, J.J.; Vermeij, G.J.; Brown, J.H.; Rosenzweig, M.L.; Gardener, M.R.; Carroll, S.P.; et al. Don’t judge species on their origins. Nature 2011, 474, 153–154. [CrossRef] [PubMed]
6. Carey, M.P.; Sanderson, B.L.; Barnas, K.A.; Olden, J.D. Native invaders–challenges for science, management, policy and society. Front. Ecol. Environ. 2012, 10, 373–381. [CrossRef]
7. Valéry, L.; Fritz, H.; Lefevre, J.C. Another call for the end of invasion biology. Oikos 2013, 122, 1143–1146. [CrossRef]
8. Hassan, A.; Ricciardi, A. Are non-native species more likely to become pests? Influence of biogeographic origin on the impacts of freshwater organisms. Front. Ecol. Environ. 2014, 12, 218–223. [CrossRef]
9. Wallingford, P.D.; Morelli, T.L.; Allen, J.M.; Beaurry, E.M.; Blumenthal, D.M.; Bradley, B.A.; Dukes, J.S.; Early, R.; Fusco, E.J.; Goldberg, D.E.; et al. Adjusting the lens of invasion biology to focus on the impacts of climate-driven range shifts. Nat. Clim. Chang. 2020, 10, 398–405. [CrossRef]
10. Crandall, S.G.; Ohayon, J.L.; de Wit, L.A.; Hammond, J.E.; Melanson, K.L.; Moritsch, M.M.; Davenport, R.; Ruiz, D.; Keitt, B.; Holmes, N.D.; et al. Best practices: Social research methods to inform biological conservation. Australas. J. Environ. Manag. 2018, 25, 6–23. [CrossRef]
11. Fitzgerald, G. Public Attitudes to Current and Proposed Forms of Pest Animal Control. A Summary and Review of the Australasian and Selected International Research; Invasive Animals Cooperative Research Centre, University of Cranberra: Cranberra, Australia, 2009.
12. Floress, K.; Huff, E.S.; Snyder, S.A.; Koshollek, A.; Butler, S.; Allred, S.B. Factors associated with family forest owner actions: A vote-count meta-analysis. Landsc. Urban Plan. 2019, 188, 19–29. [CrossRef]
13. Kapitza, K.; Zimmermann, H.; Martin-Lopez, B.; von Wehrden, H. Research on the social perception of invasive species: A systematic literature review. NeoBiota 2019, 43, 47–68. [CrossRef]
14. Shackleton, R.T.; Adriaens, T.; Brundu, G.; Dehnen-Schmutz, K.; Estévez, R.A.; Fried, J.; Larson, B.M.H.; Liu, S.; Marchante, E.; Marchante, H.; et al. Stakeholder engagement in the study and management of invasive alien species. *J. Environ. Manag.* 2019, 229, 88–101. [CrossRef][PubMed]

15. Marriott, S.; Cassady, H.J. Attitudes to animal use of named species for different purposes: Effects of speciesism, individualising morality, likeability and demographic factors. *Humant. Soc. Sci. Commun.* 2022, 9, 138. [CrossRef]

16. Buijs, A.E.; Elands, B.H. Does expertise matter? An in-depth understanding of people’s structure of thoughts on nature and its management implications. *Biol. Conserv.* 2013, 168, 184–191. [CrossRef]

17. Cordeiro, B.; Marchante, H.; Castro, P.; Marchante, E. Does public awareness about invasive plants pays off? An analysis of knowledge and perceptions of environmentally aware citizens in Portugal. *Biol. Invasions* 2020, 22, 2267–2281. [CrossRef]

18. Farnworth, M.J.; Watson, H.; Adams, N.J. Understanding attitudes toward the control of nonnative wild and feral mammals: Similarities and differences in the opinions of the general public, animal protectionists, and conservationists in New Zealand (Aotearoa). *J. Appl. Anim. Welf. Sci.* 2014, 17, 1–17. [CrossRef]

19. Crowley, S.L.; Hinchliffe, S.; Mcdonald, R.A. Conflict in invasive species management. *Front. Ecol. Environ.* 2017, 15, 133–141. [CrossRef]

20. Sevillano, V.; Fiske, S.T. Stereotypes, emotions, and behaviors associated with animals: A causal test of the stereotype content model and BIAS map. *Group Process. Intergroup Relat.* 2019, 22, 879–900. [CrossRef]

21. Drijfhout, M.; Kendal, D.; Green, P.T. Understanding the human dimensions of managing overabundant charismatic wildlife in Australia. *Biol. Conserv.* 2020, 244, 108506. [CrossRef]

22. Caplenor, C.A.; Poudyal, N.C.; Muller, L.I.; Yoest, C. Assessing landowners’ attitudes toward wild hogs and support for control options. *J. Environ. Manag.* 2017, 201, 45–51. [CrossRef]

23. Cerri, J.; Mori, E.; Zozzoli, R.; Gigliotti, A.; Chirco, A.; Bertolino, S. Managing invasive Siberian chipmunks Eutamias sibiricus in Italy: A matter of attitudes and risk of dispersal. *Biol. Invasions* 2020, 22, 603–616. [CrossRef]

24. Fischer, A.; Selge, S.; Van Der Wal, R.; Larson, B.M. The public and professionals reason similarly about the management of non-native invasive species: A quantitative investigation of the relationship between beliefs and attitudes. *PLoS ONE* 2014, 9, e105495. [CrossRef]

25. Fiske, S.T.; Cuddy AJ, C.; Glick, P.; Xu, J. A model of (often mixed) stereotype content: Competence and warmth, respectively, 28. Fischer, A.; Langers, F.; Bednar-Friedl, B.; Geamana, N.; Skogen, K. Mental representations of animal and plant species in their 31. Sevillano, V.; Fiske, S.T. Stereotypes, emotions, and behaviors associated with animals: A causal test of the stereotype content 35. Boshoff, A.F.; Landman, M.; Kerley, G.I.; Bradfield, M. Visitors’ views on alien animal species in national parks: A case study from South Africa. Research in action. *S. Afr. J. Sci.* 2008, 104, 326–328.

26. Moskwa, E.C. Tourist opinions on animal culling: A South Australian example. *Aust. J. Environ. Educ.* 2015, 31, 208–222.

27. Fiske, S.T. Stereotypes, emotions, and behaviors associated with animals: A causal test of the stereotype content model and BIAS map. *Process Group. Intergroup Relat.* 2019, 22, 879–900. [CrossRef]

28. Diaz, R.A.; Sánchez, F.J.; Sevillano, V.; Cassini, M.H. Desenredando el ambiente: Valores y afectos asociados a los animales en estudiantes de psicología de la ciudad de buenos aires, Argentina. *Rev. Interam. Psicol.* 2020, 54, e1098. [CrossRef]

29. Bauni, V.; Bertonatti, C.; Giachino, A.; Inventario Biológico Argentina: Vertebrados; Fundación de Historia Natural Félix de Azara: Buenos Aires, Argentina, 2021; 534p.

30. Davies, J. On the Origin of Species by Means of Natural Selection (Murray, London). 1858. Available online: http://darwin-online.org.uk/content/frameset?pagename=1&itemID=F373&viewtype=side (accessed on 1 July 2022).

31. Boshoff, A.F.; Landman, M.; Kerley, G.I.; Bradfield, M. Visitors’ views on alien animal species in national parks: A case study from South Africa: Research in action. *S. Afr. J. Sci.* 2008, 104, 326–328.

32. Moskwa, E.C. Tourist opinions on animal culling: A South Australian example. *Aust. J. Environ. Educ.* 2015, 31, 208–222.

33. Nates, J.; Campos, C.; Lindemann-Matthies, P. Students’ perception of plant and animal species: A case study from rural Argentina. *Ampl. Environ. Stud.* 2010, 9, 131–141. [CrossRef]

34. Remmele, M.; Lindemann-Matthies, P. Dead or alive? Teacher students’ perception of invasive alien animal species and attitudes towards their management. *EURASIA J. Math. Sci. Technol. Educ.* 2010, 16, em1840. [CrossRef]

35. Schlegel, J.; Rupp, R. Attitudes towards potential animal flagship species in nature conservation: A survey among students of different educational institutions. *J. Nat. Conserv.* 2010, 18, 278–290. [CrossRef]

36. Schuttler, S.G.; Stevenson, K.; Kays, R.; Dunn, R.R. Children’s attitudes towards animals are similar across suburban, exurban, and rural areas. *Peer* 2019, 7, e7326.

37. Jürgens, U.M.; Hackett, P.M. The big bad wolf: The formation of a stereotype. *Ecopsychology* 2017, 9, 33–43. [CrossRef]
43. Sevillano, V.; Talayero, F.; López-Bao, J.V.; Estrella, S. The social stereotypes of wolves and brown bears. *Hum. Dimens. Wildl.* 2022, 28, 1–16. [CrossRef]

44. Finlay, T.; James, L.R.; Maple, T.L. People’s perceptions of animals: The influence of zoo environments. *Environ. Behav.* 1988, 20, 508–528. [CrossRef]

45. Lute, M.L.; Gore, M.L. Stewardship as a path to cooperation? Exploring the role of identity in intergroup conflict among Michigan wolf stakeholders. *Hum. Dimens. Wildl.* 2014, 19, 267–279. [CrossRef]