1	Working paper
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3	Running title: Urban colonization traits
4	Urban colonization is driven by a mixture of evolutionarily conserved and
5	labile traits
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22	Abstract
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24	Urbanization is a fast and dramatic transformation of habitat that generally forces native
25	fauna into novel ecological challenges. The biological prerequisites necessary to establish in
26	urban areas have been widely studied, but the macroevolutionary characteristics of traits that
27	allow urban colonization remain poorly understood. Urban colonization might be facilitated
28	by traits that are evolutionarily conserved and which lead to a diversity of closely related
29	species. Alternatively, urban colonization might be associated with labile traits that
30	frequently arise and are lost. In a large data set from passerine birds, we find that urban
31	colonization has a signal of highly labile traits, despite many traits associated with
32	colonization being highly conserved. Urban colonization is associated with traits that allow
33	faster speciation than non-urban-colonizing counterparts, and more frequently transition to
34 25	non-urban trait states than in the opposite direction. Overall, the traits that facilitate urban
35	colonization are a mix of highly conserved and labile traits and appear to provide an
36 27	evolutionarily successful strategy.
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39 Keywords: body mass, brain size, anthropic habitats, evolutionary distinctiveness,

40 urbanization.

#### 41 Introduction

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43 Urbanization is one of the most rapid anthropogenic changes to the environment, and can 44 have a dramatic impact on local communities [1,2]. While urbanization is often associated 45 with a loss of biodiversity and of evolutionary distinctiveness [3], a broad range of species 46 have successfully established in these novel environments. Understanding the biological traits 47 that allow urban colonization can be important for predicting the impact of urbanization on 48 biodiversity. In birds, there are several biological predictors of successful urban colonization 49 including lack of plumage dichromatism, large body mass, large brain size, migration ability 50 and broad environmental tolerance [4-8]. Such a collection of traits might impact species 51 survival, leaving a mark across deep evolutionary timescales [9,10]. However, the 52 macroevolutionary trajectory of the complete set of traits in urban-colonizing species remains 53 poorly understood. 54 The macroevolution of traits that facilitate urban colonization is driven primarily by

55 three processes: speciation, extinction, and the transition among species that do not have such 56 traits and those that do. In consequence, the distribution of urban colonizing species in a 57 phylogeny will depend on the rate of each of these processes. One possible scenario is that 58 the transition between traits that do not allow urban colonization and those that do is 59 infrequent in either direction. In such cases, the traits that allow colonization might only 60 occur among closely related species and will be clustered across the phylogeny. Any 61 differences in the current diversity of the urban colonizers versus non-colonizers is then 62 driven by differences in rates of speciation and extinction, and not by the rate of appearance 63 and disappearance of traits. In birds, however, urban colonizers come from a broad range of 64 taxa, suggesting that the rate of transition between traits is actually high [3,11].

In another scenario, species might frequently transition between having traits that facilitate urban colonization and those that do not. The speciation and extinction rates of urban colonizers might be similar to those of non-colonizers, but the traits that allow colonization might be frequently gained and lost. If urban colonization is driven by such evolutionarily labile traits, colonizers and non-colonizers will be highly dispersed across their phylogeny. However, there is also evidence against this hypothesis, since many of the traits associated with urban colonization are conserved, such as brain size [11].

72 Alternatively, urban-colonizers and non-colonizers might differ in rates of both 73 diversification (speciation and extinction) and transition. In this case, colonizers and non-74 colonizers might differ in their pattern of phylogenetic clustering, and several combinations 75 of rates of speciation, extinction and transition can lead to such an observation. One 76 interesting case occurs when transition is high in a single direction (e.g., non-urban colonizer 77 traits to urban-colonizer traits), and the frequently-emerging traits cause an increased rate of 78 extinction by benefitting individuals at the expense of the population. This phenomenon has 79 been termed "evolutionary suicide" [12,13]. Examples of traits that have been proposed to 80 emerge often but reduce the evolutionary success of species include self-compatibility in 81 plants [14] or some forms of specialization [15]. The traits that allow urban colonization 82 might be such an evolutionary "dead-end", if urban colonization increases the already-high 83 chances of extinction in those species. This hypothesis might explain the loss of evolutionary 84 distinctiveness in urban areas [2] and the lack of phylogenetic clustering in urban colonizers

[3], and should appear as a highly dispersed or "tippy" pattern of urban colonizers in theirphylogeny [16].

87 Apart from the main three scenarios explained so far, there are other combinations of 88 rates of speciation, extinction, and transition that might govern the macroevolution of current 89 urban-colonizers and non-colonizers. Therefore, to test the pattern associated with urban 90 colonization and whether it is driven by traits that are evolutionarily successful or 91 detrimental, and either conserved or labile, we analyzed published data from passerine birds. 92 We first tested whether urban colonization and three traits previously associated with urban 93 colonization (brain size, body mass, and plumage dichromatism) are phylogenetically 94 dispersed within the passerines. We then used maximum likelihood and simulation 95 approaches to test whether the collection of traits that might have allowed colonization of 96 urban areas are either evolutionarily conserved, or tend to be either labile or even suicidal at a 97 macroevolutionary scale.

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### 99 Methods

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101 To gain insight into the types of traits that allow urban colonization, we examined the 102 macroevolutionary features of the species that have successfully colonized urban areas. We 103 gathered information about urban presence/absence [17] of passerine birds, and three traits of 104 species associated with the colonization and establishment of passerines in urban areas: brain 105 size ([4,18], but see [11,19]), body mass [5,8] and plumage dichromatism [8] (see 106 Supplementary Information for data collection).

107 We first tested whether brain size, body mass, plumage dichromatism and urban 108 colonization of the set of species for which the latter variable was available are either 109 taxonomically grouped or randomly dispersed across their phylogeny. Previous studies have 110 already explored the phylogenetic characteristics of brain size, body mass, plumage 111 dichromatism in datasets including large samples of the extant passerine species (e.g., [20]). 112 To explore whether similar patterns are seen only for the set of species for which there are 113 data on presence/absence in urban areas, we ran these analyses on the reduced data set for 114 which all variables were available (brain size, n = 251; body mass, n = 506; plumage 115 dichromatism, n = 506).

116 We first estimated the maximum clade credibility (MCC) phylogenetic tree of a 117 random sample of 1000 time-calibrated trees containing every species of birds [21]. The 118 complete MCC tree was pruned to contain the 506 species of passerine birds for which the 119 other data were available (or 251 species for the dataset in brain size), and was then used for 120 subsequent analyses. We tested whether urban habitat colonization is either significantly 121 phylogenetically clustered or over-dispersed by calculating Fritz and Purvis' D statistic [22] 122 and comparing that value to 1000 simulations under each of the two null models, using the R 123 package *caper* [23]. Similarly, we tested the hypotheses that the variables of brain size, body 124 mass and plumage dichromatism have phylogenetic signal by testing the significance of 125 Pagel's  $\lambda$  [24] as implemented in the R package *phytools* [25].

To assess whether traits that allow urban colonization are highly labile or even
suicidal, we performed two tests of the macroevolution of successfully colonizing species
(see [16] for full details on this method): (i) we tested whether colonizing species have had a

greater number of evolutionary origins (*NoTO*), and (ii) whether they have a lower number of also-colonizing sister species (*SSCD*) than expected under a null process in which rates of gain and loss of a trait are equal in both directions (as proposed in [16]), using the R package *phylometrics* [26]. Traits that are likely to be significantly labile or suicidal have values of these metrics that are significantly different from the null, and also have a D statistic of phylogenetic clustering indicating a significantly dispersed phylogenetic distribution [16]. We performed these analyses assuming that we have an incomplete sample from the

136 passerines (506 / 5966 = 0.085).

137 We examined whether the data contained a signal of significant differences in rates of 138 speciation, extinction, or transition between colonizing and non-colonizing species by testing 139 models of binary state-speciation and extinction (BiSSE; [27,28]). The diversification rates in 140 passerine birds are likely to be affected by many factors that are not considered in this study 141 (e.g., [29]). Therefore, we restricted our analyses to testing whether the distinction between 142 colonizers and non-colonizers is superior to more simple models where the distinction is not 143 present. If the primary drivers of diversification rates in passerines are entirely unrelated with 144 the traits associated with urban colonization, the distinction between colonizers and non-145 colonizers will not be meaningful and lead to similar fit in models of diversification.

146 We tested whether a model in which colonizing and non-colonizing species have 147 different rates of speciation, extinction, and transition (hereafter "full model"), was superior 148 to four alternative models in which colonizing and non-colonizing species have (i) identical 149 speciation rates, (ii) identical extinction rates, (iii) identical transition rates, or (iv) equivalent 150 values for each of these traits across the two groups. The models were corrected for 151 incomplete taxon sampling and likelihood ratio tests were performed comparing the full 152 model and each of these alternative hypotheses. Results were corrected for multiple tests 153 using false discovery rates.

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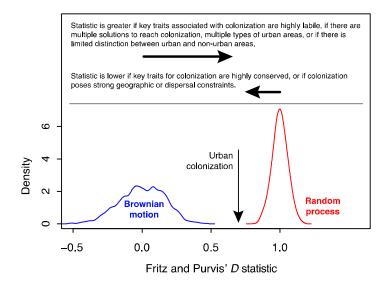
#### 155 **Results**

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157 We found that in passerine birds there is significant phylogenetic signal in plumage 158 dichromatism ( $\lambda = 0.78$ , p < 0.001), brain size ( $\lambda = 0.88$ , p < 0.001), and body mass ( $\lambda = 0.88$ , 159 p < 0.001). Meanwhile, colonization of urban areas is significantly more phylogenetically 160 dispersed than a pattern emerging from Brownian motion. However, it is also significantly 161 more clustered than a random assortment of species across the phylogeny of passerine birds 162 (D = 0.695, p < 0.001; Fig. 1). Nonetheless, we find that evolutionary factors associated with 163 urban colonization lead to a greater number of evolutionary origins, and a smaller number of 164 also-colonizing sister taxa than expected under a Brownian motion evolutionary process 165 (NoTO = 3.35, p < 0.001; SSCD = 193.21, p < 0.001).

166 Tests of BiSSE models showed that the full model, which makes a distinction 167 between urban colonising species and non-colonizers, provided a significantly better fit than 168 models that did not make a distinction between the two groups in terms of their speciation 169 rates ( $p = \langle 0.001 \rangle$ , rates of transition ( $p = 0.003 \rangle$ , or in all of speciation, extinction, and 170 transition rates (p < 0.001; Fig. 1; Table S1). However, the full model was not significantly 171 superior to a model in which the two groups share an identical extinction rate (p = 0.099;  $\varepsilon =$ 172 0.146). In the full model and the more simple model where extinction rates are identical,

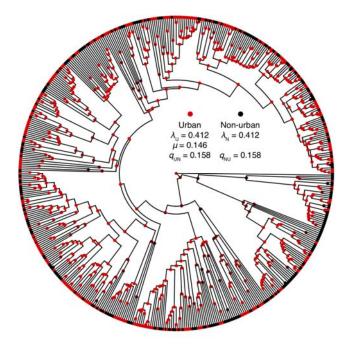
- 173 speciation rates were estimated to be greater in urban colonizing species ( $\lambda_{\rm U} = 0.412$ ) than in
- 174 non-colonizing species ( $\lambda_N = 0.149$ ), and the estimated rate of transitions between states was
- 175 estimated to be greater in the direction from colonizing species to non-colonizers ( $q_{\rm UN} =$
- 176 0.158) than the opposite ( $q_{\rm NU} = 0.023$ ).
- 177
- 178 Figure 1. Fritz and Purvis' D statistic of phylogenetic clustering for urban colonization
- 179 (black vertical arrow) as a proxy of the traits that allow this phenomenon. Expected
- 180 distributions shown are drawn from simulations of the data under an evolutionary processes
- 181 of Brownian motion (blue) and random change (red). We describe some of the factors that
- 182 might cause an increase in phylogenetic dispersal versus clustering of traits associated with
- 183 urban colonization.



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- 187 **Figure 2.** Phylogenetic tree of the passerine species sampled showing the positioning of
- 188 urban colonizers (red) and non-urban colonizers (black). Internal nodels and the statistics
- 189 shown are drawn from the maximum likelihood estimate of the ancestral states under the
- 190 BiSSE model. The estimates shown are not intended to represent the model that best
- 191 describes the processes the drove the diversification of passerine birds.
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#### 195 Discussion

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197 Some collections of traits can influence the chances of species success or demise, so the 198 macroevolutionary history of different groups of traits have been a longstanding matter of 199 interest (e.g., [10,22]). Our data show that rates of transition and speciation might be uneven 200 while extinction rates are similar. This suggests that many of the traits that are associated 201 with urban colonization of species of passerine birds are evolutionarily conserved. However, 202 urban colonizers are not significantly grouped phylogenetically in passerine birds, suggesting 203 that urban colonization is not driven by purely conserved or labile traits. Some of the traits 204 that allow urban colonization are likely to be labile and have frequently been lost in the 205 evolution of passerines. Interestingly, the complete collection of traits has provided a 206 comparatively successful strategy over the traits that occur in non-urban species. Therefore, 207 our data suggest that urban areas are not a sink of biodiversity that accelerates the demise of 208 species with already unfortunate macroevolutionary trajectories.

Some of the traits explored here might have direct effects on the elevated rate of speciation in urban-colonizing species. However, this effect occurs in the opposite direction as might be expected, because urban species tend have large body size and have lower amounts of sexual selection [8], both of which are associated with slower rates of diversification [20,30]. Instead, other features of urban colonizers might have been associated with their relatively high speciation rates. One example is being a dietary generalist, which is

strongly associated with diversification rates in birds [20] and is a distinctive feature of urbancolonizers [11].

217 Urban colonizers are associated with relatively fast speciation rates and frequent 218 transition towards a different combination of traits. Some successful evolutionary strategies 219 can frequently breakdown and lead to novel diversity. Examples include the common switch 220 from self-incompatibility to the less-successful self-compatibility strategy in the plant family 221 Solanaceae [14], or the frequent switch from bisexuality to the less-successful unisexuality in 222 liverworts [31]. Similarly, generalist taxa sometimes have faster rates of diversification and 223 greater rates of transition to specialization than the opposite direction [15]. In addition to 224 being dietary generalists, urban-colonizing species have been proposed to have broad 225 environmental tolerances [7] and high behavioural flexibility ([4,32] but see [11,19]), which 226 are likely easily lost evolutionarily, yet might provide species with resilience and long term 227 evolutionary success.

228 Our results suggest that urban areas attract species with traits that are robust in 229 macroevolutionary terms, such that cities might serve as a reservoir of biodiversity [33,34]. 230 This is consistent with the lack of evidence for poor health in urban taxa [35–37] and the fact 231 that urban species are often in the process of becoming reproductively isolated from non-232 urban counterparts [33]. The high rate of transition out of the traits that allow urban 233 colonization means that novel diversity arising from urban areas might contain non-urban 234 traits (e.g., strong sexual selection, small body size, specialization). Understanding the 235 medium- and long-term evolutionary trajectories of urban species might aid urban planning 236 in the future, since the predicted increase in urbanization might impact species without 237 suitable traits (e.g., specialist species).

238 While urban areas are associated with the homogenization of biodiversity and the loss 239 of evolutionary distinctiveness, the traits that allow for colonization of these areas do not 240 appear to cause increased extinction rates at a macroevolutionary scale. Since urban 241 colonization is not phylogenetically clustered, it is also likely to be driven by highly labile 242 and common traits. Labile traits that are most likely to contribute to urban colonization might 243 include nesting location [5] or song type [38], while other conserved traits might include 244 feeding habits or brain size [4]. Exploring the macroevolution of traits further on species 245 colonization of novel habitats is likely to bring important insights into species sensitivity to 246 future urbanization.

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## 248 Author contributions

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# DAD, MIC, and CPD conceived the idea, MIC and CPD collected the data, DAD analysed the data, all the authors interpreted the results and helped drafting the manuscript.

252

## 253 Funding

254

This work was supported by funding from the Australian Research Council to D.A.D. (grant DE190100544).

- 257
- 258 Conflict of interest

<ul> <li>260 The authors declare no conflict of interest</li> <li>261</li> <li>262 Ethics</li> <li>263</li> <li>264 Not applicable</li> <li>265</li> <li>266 Data accessibility</li> <li>267</li> <li>268 The data used in this project are available at github.com/duchene/urbanSexSel.</li> <li>269</li> <li>270 References</li> <li>271 1. McKinney ML. 2002 Urbanization, biodiversity, and conservation. <i>Bioscience</i> 52, 883.</li> <li>272 2. Ibáñez-Álamo J, Rubio E, Benedetti Y, Morelli F. 2017 Global loss of avian evolutionary uniqueness in urban areas. <i>Clob. Chang. Biol.</i> 23, 2990–2998.</li> <li>273 3. Sol D, Bartomeus I, González-Lagos C, Pavoine S. 2017 Urbanisation and the loss of phylogenetic diversity in birds. <i>Ecol. Lett.</i> 20, 721–729.</li> <li>4. Maklakov A, Immiler S, Gonzalez-voyer A, Rönn J, Kolm N. 2011 Brains and the city: big-brained passerine birds succeed in urban environments. <i>Biol. Lett.</i> 7, 730–732.</li> <li>5. Croci S, Butte A, Clergeau P. 2008 Does urbanization filter birds on the basis of their biological traits? <i>Condor</i> 110, 223–240.</li> <li>6. Lowry H, Lill A, Wong BBM. 2013 Behavioural responses of wildlife to urban environments. <i>Biol. Rev.</i> 88, 537–549.</li> <li>7. Bonier F, Martin PR, Wingfield JC. 2007 Urban birds have broader environmental tolerance. <i>Biol. Lett.</i> 3, 670–673.</li> <li>8. I [glesias-Carrascov M, Duchén DA, Head ML, Møller AP, Cain K. 2019 Sex in the city: sexual selection and urban colonization in exstinction risk among birds: Chance or evolutionary predisposition? <i>Proc. R. Soc. B Biol. Sci.</i> 264, 401–408.</li> <li>10. Cardillo M, Mace GM, Jones KE, Bielby J, Bininda-Emonds ORP, Sechrest W, Orme CDL, Purvis A. 2005 Multiple causes of high extinction risk in large mammal species. <i>Science</i> 309, 1239–1241.</li> <li>11. Evans KL, Chamberlain DE, Hatchwell BJ, Gregory RD, Gaston KJ. 2011 What makes an urban bird? <i>Clob. Chang. Biol.</i> 17, 32–44.</li> <li>12. Kokko H, Heubel KU. 2011 Prudent males, group adaptation, and the tragedy of the commons. <i>Oikos</i> 120, 641–656.</li></ul>	259		
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