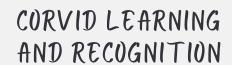
## ARE YOU

A glimpse into the world of the crow family (corvids) and their amazing ability to recognize human faces. Are crows and ravens actually able to recognize human faces? If so, how do they do it and why do they?

## BEING WATCHED?



Corvids are able to learn through– direct individual experience, observation, learning from their peers, and learning from their parents.<sup>3</sup> They are especially quick to learn about dangers/threats and remember them.<sup>1,5</sup> This allows corvids to be especially adept at discerning potential threats.<sup>1,3,4,5</sup>



## SOCIAL LIFE AND INFORMATION SHARING

Corvids spend their lives with their parents then peers and eventually their mates.<sup>2</sup> Through each life stage, corvids live in groups which are essential communication hubs.<sup>2,3</sup> These groups are important for learning and sharing about food sources and perceived dangers and threats.<sup>2,3</sup>



Recognition of an individual is an expensive resource to invest in– even more so for an individual that is not of the same species.<sup>3</sup> The evolutionary advantage of being able to recognize 'dangerous' humans is the main reason for corvids to behave in such manner.<sup>3,4</sup> Ability to anticipate potential dangers and threats can increase a corvid's chance of survival.<sup>3,4</sup>

Short answer?
Yes, you probably are!
If you are around
crows, ravens, or other
birds from the same
family, chances are, the
way you interact with
them is being closely
watched!

Next time you are around crows, ravens, or birds of the same family make sure you treat them right!

## SOURCES

- 1. Blum, C. R., Fitch, W. T., & Bugnyar, T. (2020). Rapid learning and long-term memory for dangerous humans in ravens (Corvus corax). Frontiers in Psychology, 11, 581794. https://doi.org/10.3389/fpsyg.2020.581794
- 2. Boucherie, P. H., Loretto, M.-C., Massen, J. J. M., & Bugnyar, T. (2019). What constitutes "social complexity" and "social intelligence" in birds? Lessons from ravens. Behavioral Ecology and Sociobiology, 73(1), 12. https://doi.org/10.1007/s00265-018-2607-2
- $3. \, Cornell, H. \, N., \, Marzluff, J. \, M., \, \& \, Peccararo, S. \, (2012). \, Social learning spreads knowledge about dangerous humans among American crows. \, Proceedings of the Royal Society B: Biological Sciences, 279 (1728), 499–508. \, https://doi.org/10.1098/rspb.2011.0957$
- $4. \, \text{Marzluff, J. M., Walls, J., Cornell, H. N., Withey, J. C., \& Craig, D. P. (2010). Lasting recognition of threatening people by wild American crows. Animal Behaviour, 79(3), 699–707. https://doi.org/10.1016/j.anbehav.2009.12.022$
- 5. Swift, K. N., & Marzluff, J. M. (2015). Wild American crows gather around their dead to learn about danger. Animal Behaviour, 109, 187–197. https://doi.org/10.1016/j.anbehav.2015.08.021

