

## UČENJE I KOGNICIJA KOD ŽIVOTINJA

Predavanje ([mky](#) format)

Predavanje ([pdf](#) - otvara se u "full screen" modalitetu)

### Za učenje:

1. Poglavlje "Learning and Cognition" udžbenika: J. Goodenough, B. McGuire, E. Jakob: "*Perspectives on Animal Behavior, 3<sup>rd</sup> ed.*" (J. Wiley & Sons, 2010, ISBN 9780470045176)
2. Poglavlja "Learning" i "Cognition" udžbenika: M. D. Breed, J. Moore: "*Animal Behavior, 2<sup>nd</sup> ed.*" (Academic Press/Elsevier, 2016, ISBN 9780128015322)

### Popularne knjige:

Znanstveno proučavanje kognicije u životinja, u posljednjih 15-tak godina, postalo je vrlo popularno područje istraživanja. Stoga je napisano i mnogo popularnih knjiga iz toga područja. Popularnih knjiga zaista je puno, a ovo je moj odabir<sup>1</sup> za one koji se ne bave znanošću odn. tim znanstvenim područjem, a žele se o njemu informirati:

F. de Waal: "*Mama's Last Hug: Animal Emotions and What They Teach Us About Ourselves*", Granta Books, 2020, ISBN: 9781783784110 ([poveznica](#)) (pristupljeno 5.4.2021.)

C. Safina: "*Beyond Words: What Animals Think & Feel*", Souvenir Press, 2020, ISBN: 9781788164238 ([poveznica](#)) (pristupljeno 5.4.2021.)

F. de Waal: "*Are We Smart Enough to Know How Smart Animals Are?*", Granta Books, 2017, ISBN: 9781783783069 ([poveznica](#)) (pristupljeno 5.4.2021.)

K. Cheng: "*How Animals Think and Feel: An Introduction to Non-Human Psychology*", ABC-CLIO/Greenwood Press, 2016, ISBN: 9781440837142 ([poveznica](#)) (pristupljeno 5.4.2021.) - IMHO, najbolja knjiga za onoga koji želi nešto informativno saznati o znanosti o kogniciji životinja (npr. učenici srednjih škola i oni koji žele biti dobro informirani o području!

M. Bekoff: "*Why Dogs Hump and Bees Get Depressed: The Fascinating Science of Animal Intelligence, Emotions, Friendship, and Conservation*", New World Library, 2013, ISBN: 9781608682195 ([poveznica](#)) (pristupljeno 5.4.2021.)

I. M. Pepperberg: "*Alex & Me: How a Scientist and a Parrot Discovered a Hidden World of Animal Intelligence - and Formed a Deep Bond in the Process*", Scribe Publications, 2013, ISBN: 9781921372728 ([poveznica](#)) (pristupljeno 5.4.2021.)

M. Bekoff: "*The Emotional Lives of Animals: A Leading Scientist Explores Animal Joy, Sorrow, and Empathy - and Why They Matter*", New World Library, 2013, ISBN: 9781577316299 ([poveznica](#)) (pristupljeno 5.4.2021.)

### Radovi:

"Learning & Cognition Survival Kit" može se skinuti [odavde](#).

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<sup>1</sup> Odabir je subjektivne naravi; netko drugi možda bi odabrao druge knjige!

### **Neke istraživačke skupine:**

Odjel za kognitivnu biologiju, Sveučilište u Beču - <https://cogbio.univie.ac.at/>

Laboratorij za komparativnu kogniciju, Tufts University - <http://www.pigeon.psy.tufts.edu/>

Laboratorij za komparativnu kogniciju, University of Iowa -

<https://psychology.uiowa.edu/comparative-cognition-lab/research/>

Laboratorij za komparativnu kogniciju, University of California at San Diego -

<https://cclab.ucsd.edu/>

Comparative Cognition, Aix-Marseille Université - <https://ipc.univ-amu.fr/en/comparative-cognition>

Laboratorij za ponašanje životinja i kogniciju, Università di Padova -

<https://dpg.unipd.it/en/abclab>

Nicola Clayton - <https://www.psychol.cam.ac.uk/ccl>

Josep Call - [https://risweb.st-andrews.ac.uk/portal/en/persons/josep-call\(e16c323e-1faa-4dc8-8b9c-f6e9432766a2\).html](https://risweb.st-andrews.ac.uk/portal/en/persons/josep-call(e16c323e-1faa-4dc8-8b9c-f6e9432766a2).html)

Kevin Laland - [https://risweb.st-andrews.ac.uk/portal/en/persons/kevin-neville-laland\(4ae352f3-32ca-418e-9d07-9b8ee17e6183\).html](https://risweb.st-andrews.ac.uk/portal/en/persons/kevin-neville-laland(4ae352f3-32ca-418e-9d07-9b8ee17e6183).html)

Katie Slocombe - <https://www.york.ac.uk/psychology/staff/academicstaff/ks553/>

Anna Wilkinson - <https://staff.lincoln.ac.uk/awilkinson>

Ludwig Huber - <https://www.vetmeduni.ac.at/en/messerli/science/cognition/staff/head-of-unit/ludwig-huber/>

Auguste von Bayern - <https://www.orn.mpg.de/Comparative-Cognition-Research-Group-von-Bayern>

Juan Manuel Toro Soto - <https://www.upf.edu/web/lcc/>

Caroline DeLong - <https://www.rit.edu/delonglab/>

Sarah Brosnan - <https://www.sarah-brosnan.com/>

Noam Miller - <http://www.millerlab.ca/>

Primate Cognition Lab, Sveučilište Columbia -

<http://www.columbia.edu/cu/psychology/primatecognitionlab/>

Robert Hampton - <https://hamptonlab.wordpress.com/>

Robyn Crook - <https://crooklab.org/>

Family Dog Project - <https://familydogproject.elte.hu/>

### **Pojmovi i osobe spomenute u predavanju:**

<https://en.wikipedia.org/wiki/Learning>

<https://en.wikipedia.org/wiki/Habituation>

[https://en.wikipedia.org/wiki/Classical\\_conditioning](https://en.wikipedia.org/wiki/Classical_conditioning)

[https://en.wikipedia.org/wiki/Little\\_Albert\\_experiment](https://en.wikipedia.org/wiki/Little_Albert_experiment)

[https://en.wikipedia.org/wiki/Mary\\_Cover\\_Jones](https://en.wikipedia.org/wiki/Mary_Cover_Jones)

[https://en.wikipedia.org/wiki/Operant\\_conditioning](https://en.wikipedia.org/wiki/Operant_conditioning)

[https://en.wikipedia.org/wiki/Operant\\_conditioning\\_chamber](https://en.wikipedia.org/wiki/Operant_conditioning_chamber)

[https://en.wikipedia.org/wiki/Latent\\_learning](https://en.wikipedia.org/wiki/Latent_learning)

[https://en.wikipedia.org/wiki/Cognitive\\_map](https://en.wikipedia.org/wiki/Cognitive_map)

[https://en.wikipedia.org/wiki/Observational\\_learning](https://en.wikipedia.org/wiki/Observational_learning)

[https://en.wikipedia.org/wiki/Social\\_learning\\_in\\_animals](https://en.wikipedia.org/wiki/Social_learning_in_animals)

[https://en.wikipedia.org/wiki/Animal\\_culture](https://en.wikipedia.org/wiki/Animal_culture)

[https://en.wikipedia.org/wiki/Cultural\\_learning](https://en.wikipedia.org/wiki/Cultural_learning)

[https://en.wikipedia.org/wiki/Animal\\_cognition](https://en.wikipedia.org/wiki/Animal_cognition)

[https://en.wikipedia.org/wiki/Tool\\_use\\_by\\_animals](https://en.wikipedia.org/wiki/Tool_use_by_animals)  
[https://en.wikipedia.org/wiki/Number\\_sense\\_in\\_animals](https://en.wikipedia.org/wiki/Number_sense_in_animals)  
[https://en.wikipedia.org/wiki/Theory\\_of\\_mind\\_in\\_animals](https://en.wikipedia.org/wiki/Theory_of_mind_in_animals)  
[https://en.wikipedia.org/wiki/Animal\\_consciousness](https://en.wikipedia.org/wiki/Animal_consciousness)  
[https://en.wikipedia.org/wiki/Bird\\_intelligence](https://en.wikipedia.org/wiki/Bird_intelligence)  
[https://en.wikipedia.org/wiki/Cephalopod\\_intelligence](https://en.wikipedia.org/wiki/Cephalopod_intelligence)  
[https://en.wikipedia.org/wiki/Fish\\_intelligence](https://en.wikipedia.org/wiki/Fish_intelligence)  
[https://en.wikipedia.org/wiki/Cetacean\\_intelligence](https://en.wikipedia.org/wiki/Cetacean_intelligence)  
[https://en.wikipedia.org/wiki/Dog\\_intelligence](https://en.wikipedia.org/wiki/Dog_intelligence)  
[https://en.wikipedia.org/wiki/Cat\\_intelligence](https://en.wikipedia.org/wiki/Cat_intelligence)  
[https://en.wikipedia.org/wiki/Animal\\_language](https://en.wikipedia.org/wiki/Animal_language)  
[https://en.wikipedia.org/wiki/Herbert\\_S.\\_Terrace](https://en.wikipedia.org/wiki/Herbert_S._Terrace)  
[https://en.wikipedia.org/wiki/Francine\\_Patterson](https://en.wikipedia.org/wiki/Francine_Patterson)  
[https://en.wikipedia.org/wiki/Irene\\_Pepperberg](https://en.wikipedia.org/wiki/Irene_Pepperberg)  
[https://en.wikipedia.org/wiki/Personality\\_in\\_animals](https://en.wikipedia.org/wiki/Personality_in_animals)

### **Životinje spomenute u predavanju:**

<https://en.wikipedia.org/wiki/Nereis>  
<https://en.wikipedia.org/wiki/Chasmagnathus>  
[https://en.wikipedia.org/wiki/Pachygrapsus\\_crassipes](https://en.wikipedia.org/wiki/Pachygrapsus_crassipes)  
<https://en.wikipedia.org/wiki/Dog>  
[https://en.wikipedia.org/wiki/Gonodactylus\\_smithii](https://en.wikipedia.org/wiki/Gonodactylus_smithii)  
[https://en.wikipedia.org/wiki/Three\\_spot\\_gourami](https://en.wikipedia.org/wiki/Three_spot_gourami)  
[https://en.wikipedia.org/wiki/Gryllus\\_bimaculatus](https://en.wikipedia.org/wiki/Gryllus_bimaculatus)  
[https://en.wikipedia.org/wiki/North\\_American\\_porcupine](https://en.wikipedia.org/wiki/North_American_porcupine)  
<https://en.wikipedia.org/wiki/Coyote>  
<https://en.wikipedia.org/wiki/Lion>  
<https://en.wikipedia.org/wiki/Macaw>  
[https://en.wikipedia.org/wiki/Bottlenose\\_dolphin](https://en.wikipedia.org/wiki/Bottlenose_dolphin)  
[https://en.wikipedia.org/wiki/European\\_beewolf](https://en.wikipedia.org/wiki/European_beewolf)  
<https://en.wikipedia.org/wiki/Rhinogobiops>  
[https://en.wikipedia.org/wiki/Eastern\\_screech\\_owl](https://en.wikipedia.org/wiki/Eastern_screech_owl)  
<https://en.wikipedia.org/wiki/Chimpanzee>  
[https://en.wikipedia.org/wiki/Nim\\_Chimpsky](https://en.wikipedia.org/wiki/Nim_Chimpsky)  
[https://en.wikipedia.org/wiki/Washoe\\_\(chimpanzee\)](https://en.wikipedia.org/wiki/Washoe_(chimpanzee))  
[https://en.wikipedia.org/wiki/Koko\\_\(gorilla\)](https://en.wikipedia.org/wiki/Koko_(gorilla))  
<https://en.wikipedia.org/wiki/Kanzi>  
<https://en.wikipedia.org/wiki/Panbanisha>  
<https://en.wikipedia.org/wiki/Chantek>  
[https://en.wikipedia.org/wiki/Grey\\_parrot](https://en.wikipedia.org/wiki/Grey_parrot)  
[https://en.wikipedia.org/wiki/Alex\\_\(parrot\)](https://en.wikipedia.org/wiki/Alex_(parrot))  
[https://en.wikipedia.org/wiki/Southern\\_pig-tailed\\_macaque](https://en.wikipedia.org/wiki/Southern_pig-tailed_macaque)  
[https://en.wikipedia.org/wiki/Great\\_tit](https://en.wikipedia.org/wiki/Great_tit)  
[https://en.wikipedia.org/wiki/Western\\_jackdaw](https://en.wikipedia.org/wiki/Western_jackdaw)  
[https://en.wikipedia.org/wiki/Woodpecker\\_finch](https://en.wikipedia.org/wiki/Woodpecker_finch)  
[https://en.wikipedia.org/wiki/Sea\\_otter](https://en.wikipedia.org/wiki/Sea_otter)  
[https://en.wikipedia.org/wiki/Egyptian\\_vulture](https://en.wikipedia.org/wiki/Egyptian_vulture)

[https://en.wikipedia.org/wiki/American\\_crow](https://en.wikipedia.org/wiki/American_crow)  
[https://en.wikipedia.org/wiki/Blue\\_jay](https://en.wikipedia.org/wiki/Blue_jay)  
[https://en.wikipedia.org/wiki/Green\\_heron](https://en.wikipedia.org/wiki/Green_heron)  
[https://en.wikipedia.org/wiki/Hyacinth\\_macaw](https://en.wikipedia.org/wiki/Hyacinth_macaw)  
[https://en.wikipedia.org/wiki/Burrowing\\_owl](https://en.wikipedia.org/wiki/Burrowing_owl)  
[https://en.wikipedia.org/wiki/Marsh\\_tit](https://en.wikipedia.org/wiki/Marsh_tit)  
[https://en.wikipedia.org/wiki/Rook\\_\(bird\)](https://en.wikipedia.org/wiki/Rook_(bird))  
[https://en.wikipedia.org/wiki/Tanimbar\\_corella](https://en.wikipedia.org/wiki/Tanimbar_corella)  
[https://en.wikipedia.org/wiki/Large-billed\\_crow](https://en.wikipedia.org/wiki/Large-billed_crow)  
[https://en.wikipedia.org/wiki/New\\_Caledonian\\_crow](https://en.wikipedia.org/wiki/New_Caledonian_crow)  
[https://en.wikipedia.org/wiki/Satin\\_bowerbird](https://en.wikipedia.org/wiki/Satin_bowerbird)  
<https://en.wikipedia.org/wiki/Kea>  
[https://en.wikipedia.org/wiki/Common\\_raven](https://en.wikipedia.org/wiki/Common_raven)  
<https://en.wikipedia.org/wiki/Guppy>  
[https://en.wikipedia.org/wiki/Blue\\_acara](https://en.wikipedia.org/wiki/Blue_acara)  
[https://en.wikipedia.org/wiki/Grey\\_seal](https://en.wikipedia.org/wiki/Grey_seal)  
[https://en.wikipedia.org/wiki/Harbor\\_seal](https://en.wikipedia.org/wiki/Harbor_seal)  
[https://en.wikipedia.org/wiki/Bornean\\_orangutan](https://en.wikipedia.org/wiki/Bornean_orangutan)

#### **Radio emisije:**

BBC Radio 4, 2011, "The Life Scientific": Nicola Clayton on bird intelligence ([mp3](#))

BBC Radio 4, 2016, "The Life Scientific": Frans de Waal on chimpanzees ([mp3](#))

#### **Edukacijske emisije:**

Uniview Productions, 1997, "Classical and Operant Conditioning" ([mkv](#))

#### **Znanstveno-popularne TV emisije:**

Janus Films, 1978, "Koko: A Talking Gorilla" ([mkv](#))

BBC, 2014, "Inside the Animal Mind": "The Problem Solvers" ([mkv](#))

"Secrets of the Social World" ([mkv](#))

Deutsche Welle, 2015, "Intelligent Creatures" ([mkv](#))

BBC, 2015, "Koko – The Gorilla Who Talks to People" ([mkv](#))

90<sup>th</sup> Parallel, 2016, "Think Like an Animal" ([mkv](#))

Terra Mater, 2016, "Bird Brain" ([mkv](#))

#### **Za one koji žele znati više:**

A. B. Kaufman, J. Call, J. C. Kaufman (eds.): "The Cambridge Handbook of Animal Cognition", Cambridge University Press, 2021, ISBN: 9781108445481 ([poveznica](#)) (pristupljeno 5.4.2021.)

C. ten Cate, S. D. Healy: "Avian Cognition", Cambridge University Press, 2020, ISBN: 9781107465466 ([poveznica](#)) (pristupljeno 5.4.2021.)

C. D. L. Wynne, M. A. R. Udell: "Animal Cognition: Evolution, Behavior and Cognition, 3rd ed.", Red Globe Press/Macmillan, 2020, ISBN: 9781137611260 ([poveznica](#)) (pristupljeno 5.4.2021.)

- K. Andrews: "The Animal Mind: An Introduction to the Philosophy of Animal Cognition, 2nd ed", Taylor & Francis/Routledge, 2020, ISBN: 9781138559578 ([poveznica](#)) (pristupljeno 5.4.2021.)
- D. T. Willingham, C. Reiner: "Cognition: The Thinking Animal, 4th ed.", Cambridge University Press, 2019, ISBN: 9781107525122 ([poveznica](#)) (pristupljeno 5.4.2021.)
- A.-S. Darmaillacq, L. Dickel, J. Mather (eds.): "Cephalopod Cognition", Cambridge University Press, 2018, ISBN: 9781108464697 ([poveznica](#)) (pristupljeno 5.4.2021.)
- A. Miklosi: "Dog Behaviour, Evolution and Cognition, 2nd ed.", Oxford University Press, 2016, ISBN: 9780198787778 ([poveznica](#)) (pristupljeno 5.4.2021.)
- M. Domjan: "The Principles of Learning and Behavior, 7th ed", Cengage Publishing, 2015, ISBN: 9780357671016 ([poveznica](#)) (pristupljeno 5.4.2021.)
- M. C. Olmstead, V. A. Kuhlmeier: "Comparative Cognition", Cambridge University Press, 2015, ISBN: 9781107648319 ([poveznica](#)) (pristupljeno 5.4.2021.)
- C. M. Sanz, J. Call, C. Boesch: " Tool Use in Animals: Cognition and Ecology", Cambridge University Press, 2014, ISBN: 9781107657434 ([poveznica](#)) (pristupljeno 5.4.2021.)
- S. J. Shettleworth: "Fundamentals of Comparative Cognition", Oxford University Press, 2012, ISBN: 9780195343106 ([poveznica](#)) (pristupljeno 5.4.2021.)
- E. A. Wasserman, T. R. Zentall (eds.): " The Oxford Handbook of Comparative Cognition", Oxford University Press, 2012, ISBN: 9780195392661 ([poveznica](#)) (pristupljeno 4.5.2021.)
- S. J. Shettleworth: "Cognition, Evolution, and Behavior", Oxford University Press, 2010, ISBN: 9780195319842 ([poveznica](#)) (pristupljeno 5.4.2021.)
- E. A. Wasserman, T. R. Zentall (eds.): " Comparative Cognition: Experimental Explorations of Animal Intelligence", Oxford University Press, 2009, ISBN: 9780195377804 ([poveznica](#)) (pristupljeno 5.4.2021.)
- J. M. Pearce: "Animal Learning and Cognition: An Introduction, 3rd ed.", Taylor & Francis/Psychology Press, 2008, ISBN: 9781841696560 ([poveznica](#)) (pristupljeno 5.4.2021.)
- M. Bekoff, C. Allen, G. M. Burghardt (eds.): " The Cognitive Animal: Empirical and Theoretical Perspectives on Animal Cognition", Bradford Book/MIT Press, 2002, ISBN: 9780262523226 ([poveznica](#)) (pristupljeno 5.4.2021.)