

SZABOLCS SZÁMADÓ
CURRICULUM VITAE

PERSONAL INFORMATION

Name: Szabolcs Számadó
Birth date: May 27, 1971
Nationality: Hungarian
Status: married

WORK INFORMATION

POSITION 1.: SENIOR RESEARCH FELLOW

Institute: Centre for Social Sciences, Hungarian Academy of Science

Department: RECENS „Lendület” Research Group

Address: 1014 Budapest, országház u. 30.

Institute website: <http://www.tk.mta.hu/en>

POSITION 2.: SENIOR RESEARCH FELLOW

Institute: Centre for Ecological Research, Hungarian Academy of Science

Department: Evolutionary Systems Research Group

Address: Klebelsberg Kuno utca 3, Tihany 8237, Hungary

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SCIENTOMETRICS

Google Scholar: <https://scholar.google.hu/citations?user=t9oS4oIAAAAJ&hl=en&oi=ao>

ResearcherID: A-9804-2013 (link: <http://www.researcherid.com/rid/A-9804-2013>)

Researchgate: https://www.researchgate.net/profile/Szabolcs_Szamado

MTMT ID: 10019188 (link: <https://vm.mtmt.hu/www/index.php?AuthorID=10019188#>)

RELEVANT EDUCATION

- 1997- 2004* Eötvös Loránd University, Ph.D. in Ecology and Theoretical Biology, Title of Doctoral Dissertation: “Reliable communication in animals, a game theoretical approach” (written in English) Supervisor: Prof. Eörs Szathmáry
- 1991- 1996* Eötvös Loránd University, MSc in Biology. Diploma thesis: “Evolúció dinamikai vizsgálatok” (Studies in Evolutionary Dynamics, written in Hungarian) Supervisor: Prof. Eörs Szathmáry

EMPLOYMENT

- 2017-present* Hungarian Academy of Sciences, Centre for Ecological Research, Senior research fellow
- 2015-present* Hungarian Academy of Sciences, Centre for Social Sciences, Senior research fellow
- 2007-2016* MTA-ELTE Theoretical Biology and Evolutionary Ecology Research Group, Senior research f.
- 2004-2007* ECAgents group, Collegium Budapest, Research fellow
- 1999-2002* MTA Research Group of Ecology and Theoretical Biology, Junior research fellow

TEACHING (IN HUNGARIAN)

- 1999-present* History of Biology, Eötvös Loránd University
- 2000-present* Animal Communication: a game theoretical approach, Eötvös L. University
- 2005-present* Cultural Evolution, Eötvös Loránd University
- 1999-2003* Ecological Modelling, Eötvös Loránd University

REVIEWER

Animal Behaviour, Behavioral Ecology, Behavioural Ecology and Sociobiology, Biology Letters, Journal of Theoretical Biology, PLoS one, Proceedings of the Royal Society B, Royal Society Interface, Philosophical Transaction of the Royal Society B, Scientific Reports

GRANTS

- 2014-2018* OTKA K 112929; 23000 thousands FT, principal investigator
- 2014-2016* OTKA K 108974; 5900 thousands FT, principal investigator
- 2005-2009* OTKA K 49692; 8700 thousands FT, investigator
- 2001-2003* OTKA K 35223; 4200 thousands FT, investigator

JOURNAL ARTICLES:

1. Garay, J., Számadó, S., Varga, Z., & Szathmáry, E. (2018). Caring for parents: an evolutionary rationale. *BMC Biology*, **16**(1), 53.
2. Zachar, I., Szilágyi, A., Számadó, S., & Szathmáry, E. (2018). Reply to Garg and Martin: The mechanism works. *Proceedings of the National Academy of Sciences*, 201805021.
3. Zachar, I., Szilágyi, A., Számadó, Sz., & Szathmáry, E. (2018). Farming the mitochondrial ancestor as a model of endosymbiotic establishment by natural selection. *Proceedings of the National Academy of Sciences*, **115**(7), E1504-E1510.
4. Számadó, Sz., & Penn, D. J. (2018). Does the handicap principle explain the evolution of dimorphic ornaments? *Animal Behaviour* **138**, e7.
5. Garay, J., Csiszár, V., Móri, T. F., Szilágyi, A., Varga, Z., & Számadó, Sz. (2018). Juvenile honest food solicitation and parental investment as a life history strategy: A kin demographic selection model. *PLOS one*, **13**(3), e0193420.
6. Számadó, S. (2017). When honesty and cheating pay off: the evolution of honest and dishonest equilibria in a conventional signalling game. *BMC Evolutionary Biology*, **17**(1), 270.
7. Számadó, Sz., Szalai, F. & Scheuring, I. (2016) Deception Undermines the Stability of Cooperation in Games of Indirect Reciprocity. *PLOS one*. doi:10.1371/journal.pone.0147623
8. Számadó, Sz. (2015) Attention Seeking Displays. *PLOS one* **10**(8): e0135379. doi:10.1371/journal.pone.0135379
9. Számadó, Sz. & Penn, D.J. (2015) Why does costly signalling evolve? Challenges with testing the handicap hypothesis, *Animal Behaviour*. **110**, December 2015, Pages e9-e12. <http://dx.doi.org/10.1016/j.anbehav.2015.06.005>
10. Számadó, Sz. (2012) The rise and fall of handicap principle: a commentary on the "Modelling and the fall and rise of the handicap principle" *Biol. Philos.* **27**, 279-286. doi: 10.1007/s10539-011-9299-6
11. Számadó, Sz. (2011) Long-term commitment promotes honest status signalling. *Animal Behaviour*. **82** 295-302.
12. Számadó, Sz. (2011) The cost of honesty and the fallacy of the handicap principle. *Anim.Behav.* **81**, 3-10.
13. Boza, G. Számadó, Sz. (2010) Beneficial laggards: multilevel selection, cooperative polymorphism and division of labour in Threshold Public Good Games. *BMC Evolutionary Biology*. **10**, 336.
14. Szalai, F. & Számadó, Sz. (2009) Honest and cheating strategies in a simple model of aggressive communication. *Animal Behaviour*, **78**, 949-959.
15. Szathmáry, E. & Számadó, Sz. (2008) Language: a social history of words. *Nature*. **456**, 40-41.

16. Számadó, Sz. (2008) How threat displays work: species-specific fighting techniques, weaponry and proximity risk. *Animal Behaviour*, **76**, 1455-1463.
17. Számadó, Sz., Szalai, F. and Scheuring, I. (2008) The effect of dispersal and neighbourhood in games of cooperation. *Journal of Theoretical Biology*, **253**, 221-227.
18. Számadó, Sz. & Szathmáry, E. (2006) Selective scenarios for the emergence of natural language. *Trends Ecol. Evol.* **21(10)**, 555-561.
19. Számadó, Sz. (2003) Threat displays are not handicaps. *Journal of Theoretical Biology* **221**, 327-348
20. Bergstrom, C.T., Számadó, Sz. and Lachmann, M. (2002) Separating equilibria in continuous signalling games. *Philosophical Transactions of the Royal Society, London B.* **357**, 1595-1606.
21. Gyarmathy VA, Thomas RP, Mikl J, McNutt LA, Morse DL, DeHovitz J, Ujhelyi E, Számadó, Sz. (2002) Sexual activity and condom use among Eastern European adolescents-the Study of Hungarian Adolescent Risk Behaviours. *Int J STD AIDS.* **13(6)**, 399-405
22. Gyarmathy VA, McNutt LA, Molnár A, Morse DL, DeHovitz J, Ujhelyi E, Számadó, Sz. (2002) Evaluation of a comprehensive AIDS education curriculum in Hungary - the role of good educators. *Journal of Adolescence*, **25**, 495-508
23. Lachmann, M., Számadó, Sz. and Bergstrom, C.T. (2001) Cost and Conflict in Animal Signals and Human Language. *Proc.Natl.Acad.Sci.USA* **28**, 13189-13194.
24. Számadó, Sz. (2000) Cheating as a Mixed Strategy in a Simple Model of Aggressive Communication. *Animal Behaviour*, **59**, 221-230.
25. Számadó, Sz. (1999) The Validity of the Handicap Principle in Discrete Action-Response games. *Journal of Theoretical Biology*, **198**, 593-602.

BOOK CHAPTERS:

1. Számadó, Sz. & Szathmáry E. (2012) Evolutionary Biological Foundations of the Origin of Language: The co-evolution of language and brain. In: Maggie Tallerman & Kathleen R. Gibson (eds). *The Oxford Handbook of Language Evolution*. Oxford University Press, Oxford.
2. Számadó, Sz., Hurford, J., Bishop, D., Deacon, T., d'Errico, F., Fischer, J., Okanoya, K., Szathmáry, E. and White, S. (2009) What Are the Possible Biological and Genetic Foundations for Syntactic Phenomena?. In: Bickerton, D., and E. Szathmáry, eds. *Biological Foundations and Origin of Syntax*. Strüngmann Forum Report, vol. 3. Cambridge, MA: The MIT Press.
3. Szathmáry, E., Szatmáry, Z., Ittész, P., Gergő, O., Zachár, I., Huszár, F., Fedor, A., Varga, M. & Számadó, S. (2006) In silico evolutionary developmental neurobiology and the origin of natural language. In: (Lyon, C., Nehaniv, C. L. & Cangelosi, A., eds) *Emergence of Communication and Language*. Springer, Artington.
4. Számadó, Sz. & Szathmáry E. (1996) A HIV-1 szervezetben belüli evolúciója: a diverzitás és virulencia változása. *AIDS-tények és előrejelzések a legújabb kutatások tükrében*. pp 41-64. szerk: Gyarmathy Anna.