

EROL AKÇAY
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EDUCATION

Postdoctoral Fellow	Stanford University , Stanford, CA <i>Department of Biology; Advisor: Joan Roughgarden</i>	August 2008 – present
Ph.D.	Stanford University , Stanford, CA <i>Department of Biological Sciences; Advisor: Joan Roughgarden</i> <i>Committee: Deborah Gordon, Shripad Tuljapurkar, Marcus W. Feldman, James Fearon (University Chair)</i>	June 2008
B.S.	Middle East Technical University , Ankara, Turkey <i>Double major with Honors in Physics and Biology</i>	June 2004

AWARDS AND FELLOWSHIPS

Samuel Karlin Prize in Mathematical Biology <i>Stanford University, Department of Biology</i>	June 2008
Excellence in Teaching Award <i>Stanford University, Department of Biology</i>	June 2008
Basic Sciences Undergraduate Fellowship in Physics <i>National Scientific and Technical Research Council of Turkey</i>	2001 – 2004

PUBLICATIONS

- Akçay, E. & Roughgarden, J. (2007). Extra-pair parentage: a new theory based on transactions in a cooperative game. *Evolutionary Ecology Research*, 9:1223–1243.
- Akçay, E. & Roughgarden, J. (2007). Extra-pair paternity in birds: review of the genetic benefits. *Evolutionary Ecology Research*, 9:855–868.
- Akçay, E. & Roughgarden, J. (2007). Negotiation of mutualism: Rhizobia and legumes. *Proc. R. Soc. B*, 274:25–32.
- Akçay, E. & Roughgarden, J. (2007). Neither should competition be assumed. *TREE*, 22:4.
- Roughgarden, J., E. Akçay and M. Oishi. (2006). in E. Kavanagh, ed., Debating sexual selection and mating strategies. *Science*. 312:689–697.
- Roughgarden, J., Oishi, M., & E. Akçay (2006). Reproductive social behavior: Cooperative games to replace sexual selection. *Science*, 311:965–970.
- Manuscripts in progress*
- Akçay, E. & Roughgarden, J. (in revision). The perfect family: biparental care in animals.
- Akçay, E., Van Cleve, J., Feldman, M. W., & Roughgarden, J. (in revision). The evolution of mutual regard. *Journal of Evolutionary Biology*.

PRESENTATIONS

Akçay, E. and J. Van Cleve. The evolution of cooperation by mutual regard. <i>Harvard University</i> , Cambridge, MA (Invited seminar)	February 2008
<i>University of Florida</i> , Gainesville, FL (Invited seminar)	April 2008
<i>Ecological Society of America Meeting</i> , Milwaukee, WI	August 2008
Akçay, E. and J. Roughgarden. The perfect family: a re-examination of biparental care in animals. <i>Ecological Society of America Meeting</i> , San Jose, CA	August 2007
Akçay, E.. Extra-pair paternity in birds: a review of data, and a new theory <i>Université Pierre et Marie Currie (Paris VI)</i> , Paris, France (Invited seminar)	October 2006
<i>Middle East Technical University</i> , Ankara, Turkey (Invited seminar)	December 2007
Akçay, E.. Negotiation of a mutualism: rhizobia and legumes <i>Ecole Normale Supérieure</i> , Paris, France (Invited seminar)	October 2006
Akçay, E.. Negotiation of a mutualism: rhizobia and legumes (poster presentation) <i>World Summit on Evolution</i> , Galapagos Islands, Ecuador (NSF-funded participant)	June 2005

PROFESSIONAL AND OUTREACH ACTIVITIES

Invited participant , Working group “Life History and Ant-Plant Interactions” <i>Santa Fe Institute</i>	January 2008
Organizer , Symposium on “New approaches to the Evolution of Social Behavior” <i>Ecological Society of America Meeting</i> , Milwaukee, WI	August 2008
Reviewer , <i>Proceedings of the Royal Society B, Theoretical Population Biology</i>	
Editor , evrimianlamak.org <i>A website on evolution for the Turkish public, based on UC Berkeley’s “Understanding Evolution” site</i>	Winter 2007 - present
Ph.D. Admissions Committee <i>Department of Biology, Stanford University</i>	Winter 2007

TEACHING EXPERIENCE

Teaching assistant and guest lecturer , BioSci 185: Reproductive Social Behavior <i>Instructor: Joan Roughgarden</i>	Fall 2008
Teaching assistant , BioSci 43: Plant Biology, Ecology and Evolution <i>Instructors: Kathryn Barton, Matthew Evans, Dmitri Petrov, Deborah Gordon</i>	Spring 2007
Guest lecturer , BioSci 284: Theoretical Ecology <i>Instructor: Joan Roughgarden</i>	Winter 2007
Teaching assistant and guest lecturer , BioSci 221: Theoretical Population Biology <i>Instructor: Shripad Tuljapurkar</i>	Spring 2006
Teaching assistant , BioSci 163: Neural Systems and Behavior <i>Instructor: Russell Fernald</i>	Fall 2005

SPECIAL SKILLS

Software: Mathematica, Matlab, R, LaTeX

Languages: Turkish (native), English (fluent), German (fluent)