

ARPAT OZGUL

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RESEARCH INTERESTS

Population ecology, persistence and dynamics of animal populations, metapopulation dynamics, wildlife disease dynamics, evolutionary demography, quantitative techniques for estimation of population parameters, population modeling, spatially-explicit population viability analysis

EDUCATION

- 2006 PhD in Wildlife Ecology & Conservation, University of Florida, Gainesville, Florida
Dissertation: Metapopulation dynamics of yellow-bellied marmots
Advisor: Dr. Madan K. Oli
- 2001 MSc in Environmental Sciences, Bosphorus University, Istanbul, Turkey
Thesis: Population distribution of cave-dwelling bat species and conservation status of underground roosts in Northwestern Turkey
Advisor: Dr. Andrzej Furman
- 1999 BA in Management, Bosphorus University, Istanbul, Turkey
Thesis: Comparative analysis of the management of nongovernmental environmental organizations

EMPLOYMENT

- 2008 - current Postdoctoral Research Associate
Division of Biology, Imperial College London
Individual differences and the dynamics of animal populations
- 2006 - 2008 Postdoctoral Research Associate
Department of Wildlife Ecology & Conservation, University of Florida
Effect of upper respiratory tract disease on gopher tortoise population dynamics
- 2001 - 2006 Research Assistant
Department of Wildlife Ecology & Conservation, University of Florida
Analysis of animal population dynamics; metapopulation dynamics of the yellow-bellied marmot; small mammal population fluctuations
- 1999 - 2001 Research Assistant
Institute of Environmental Sciences, Bosphorus University
Community ecology of cave-dwelling bats

GRANTS AND AWARDS

- 2006 Graduate Student of the Year Award, Sigma Xi, University of Florida Chapter
- 2004 Rocky Mountain Biological Laboratory - Lee R. G. Snyder Memorial Fund, Gothic, CO
- 2004 Sigma Xi Grant-in-Aid of Research
- 2003 Best Student Presentation, The Wildlife Society, Florida Chapter

- 2002 William and Else Jennings Award, University of Florida
- 2001 Rufford Conservation Grant, Whitley Awards Foundation, UK
- 1999 Threatened Species Category Award, BP Conservation Programme - BirdLife, BP Amoco, Flora & Fauna International, UK

PUBLICATIONS

Published & in press

- Borrego N, Ozgul A, Armitage KB, Blumstein DT, Oli MK (2008) Spatiotemporal variation in survival of male yellow-bellied marmots. *Journal of Mammalogy* 89: 365–373
- Ozgul A, Oli MK, Olson LE, Blumstein DT, Armitage KB (2007) Spatiotemporal variation in the reproductive rates of the yellow-bellied marmot. *Oecologia* 154: 95-106
- Ozgul A, Armitage KB, Blumstein DT, Oli MK (2006) Spatiotemporal variation in age-specific survival rates: Implications for population dynamics of yellow-bellied marmots. *Ecology*, 87: 1027-1037
- Ozgul A, Armitage KB, Oli MK, Blumstein DT, Van Vuren DH (2006) Effects of patch quality and network structure on patch occupancy dynamics of a yellow-bellied marmot metapopulation. *Journal of Animal Ecology* 75: 191-202
- Dodd CK, Ozgul A, Oli MK (2006) Influence of disturbance events on survival and dispersal rates of Florida box turtles. *Ecological Applications*, 16: 1936–1944
- Blumstein DT, Ozgul A, Yovovich V, Van Vuren DH, Armitage KB (2006) Effect of predation risk on the presence and persistence of yellow-bellied marmot (*Marmota flaviventris*) colonies. *Journal of Zoology*, 270: 132-138
- Getz LL, Ozgul A, Oli MK, Hofmann JE, McGuire B (2006) Dynamics of vole populations: an experimental evaluation of the influence of food resources. *Acta Zoologica Sinica*, 26: 114-122
- Getz LL, Oli MK, Hofmann JE, McGuire B, Ozgul A (2005) Factors influencing movement distances of two species of sympatric voles. *Journal of Mammalogy* 86: 647-654
- Ozgul A, Getz LL, Oli MK (2004) Demography of fluctuating populations: temporal and phase-related changes in vital rates of *Microtus ochrogaster*. *Journal of Animal Ecology* 73: 201-215
- Blumstein DT, Runyan A, Seymour M, Nicodemus A, Ozgul A, Ransler F, Im S, Stark T, Zugmeyer C, Daniel JC (2004) Locomotor ability and wariness in yellow-bellied marmots. *Ethology* 110: 615-634
- Furman A & Ozgul A (2004) The distribution of cave-dwelling bats and conservation status of underground habitats in Northwestern Turkey. *Biological Conservation* 120: 243-248
- Karatas A & Ozgul A (2003) On the occurrence of *Myotis emarginatus* (Geoffroy, 1806) in Turkey (Chiroptera: Vespertilionidae). *Zoology in the Middle East* 28: 17-24
- Furman A & Ozgul A (2002) Distribution of cave-dwelling bats and conservation status of underground habitats in the Istanbul area. *Ecological Research* 17: 69-77
- Ozgul A, Bilgin R, Furman A (2000) Cave-dwelling bats of Çatalca-Kocaeli Region, Northwestern Turkey. *Proceedings of the 8th European Bat Research Symposium* (ed. BW Woloszyn) 17: 191-198

In review / preparation

- Ozgul A, Armitage KB, Blumstein DT, Van Vuren DH, Oli MK (in review) Influence of local demographic processes on the metapopulation dynamics of the yellow-bellied marmot.
- Ozgul A, Oli MK, Wendland L, Brown M, Klein P (in review) Effect of upper respiratory tract disease on population dynamics of gopher tortoises.

TEACHING EXPERIENCE

Instructor

Quantitative Wildlife Ecology (WIS4601C), University of Florida (Springs 2004, 2006)

Guest lecturer

Wildlife Population Modeling (WIS6466), University of Florida (Spring 2006)

Wildlife Population Ecology (WIS4501), University of Florida (Springs 2004, 2005, 2007)

Advanced Topics in Population Ecology (WIS6455), University of Florida (Springs 2004, 2005)

Quantitative Wildlife Ecology (WIS4601C), University of Florida (Springs 2005, 2007)

Teaching assistant

Wildlife Issues (WIS2040), University of Florida (Fall 2005)

Quantitative Data Analysis, Bosphorus University (Fall 2001)

Environmental Dimension, Bosphorus University (Fall 2000)

Models & Concepts in Ecology, Bosphorus University (Spring 2000)

Undergraduate mentoring

Independent research - Natalia Borrego, University of Florida (2005)

PROFESSIONAL REVIEW

Reviewed manuscripts for the following peer reviewed journals:

American Naturalist

Biology Letters

Chelonian Conservation and Biology
Ecology

Journal of Animal Ecology

Journal of Mammalogy

Journal of Wildlife Management

COMPUTER SKILLS

Proficient in MATLAB and R programming

Proficient in the use of several ecological (e.g. MARK, PRESENCE, DISTANCE, RMARK, MSURGE), statistical (R, S-plus, SAS, SPSS), spatial analysis (ARCVIEW/ARCGIS), and database management (MS ACCESS) software packages

PRESENTATIONS

Presentations at professional meetings

Ozgul A, Armitage KB, Blumstein DT, Van Vuren DH, Oli MK (2007) Influence of local demographic processes on the metapopulation dynamics of the yellow-bellied marmot. Ecological Society of America Meeting, San Jose, California (Oral presentation)

Wendland LD, Ozgul A, Perez-Heydrich C, White CL, Klein PA, Wooding J, Berish JD, Oli MK, Brown MB (2006) Effects of upper respiratory tract disease in gopher tortoise populations in Florida - populations in transition. National Science Foundation - Ecology of Infectious Diseases Meeting, Atlanta, Georgia (Poster presentation)

- Borrego N, Ozgul A, Armitage KB, Blumstein DT, Oli MK (2006) Spatiotemporal variation in survival of male yellow-bellied marmots. Florida Wildlife Society Meeting, Cocoa Beach, Florida (Oral presentation by Borrego N)
- Ozgul A, Armitage KB, Blumstein DT, Oli MK (2005) Spatiotemporal variation in vital rates: Implications for population dynamics of yellow-bellied marmots. Ecological Society of America Meeting, Montreal, Canada (Oral presentation)
- Ozgul, A, Oli MK, Armitage KB, Blumstein DT, Van Vuren D (2004) Patch occupancy dynamics of a yellow-bellied marmot metapopulation. Florida Wildlife Society Meeting, Mount Dora, Florida (Oral presentation)
- Ozgul, A, Getz LL, Oli MK (2003) Demography of fluctuating vole populations. Ecological Society of America Meeting, Savannah, Georgia (Oral presentation)
- Ozgul, A, Getz LL, Oli MK (2003) Demography of fluctuating vole populations. Florida Wildlife Society Meeting, Nero Beech, Florida (Oral presentation)
- Ozgul A, Bilgin R, Furman A (1999) Eurasian Bridge'99 - Bat research in Northwestern Turkey. BP Conservation Programme, London, UK (Oral presentation)
- Bilgin R, Ozgul A, Furman A (1999) The distribution of cave-dwelling bat species in Northwestern Turkey. European Bat Research Symposium, Krakow, Poland (Poster presentation)
- Furman A, Ozgul A, Bilgin R (1999) Bat research in Northwestern Turkey. Research and Development in Turkey Symposium, Istanbul, Turkey (Poster presentation)

Seminars and other presentations

- Ozgul A (2005) Metapopulation dynamics of yellow-bellied marmots. Ph.D. Exit Seminar, University of Florida (Oral presentation)
- Ozgul A, Armitage KB, Blumstein DT, Oli MK (2005) Spatiotemporal variation in vital rates: Implications for population dynamics of yellow-bellied marmots. Wildlife Graduate Student Seminar, University of Florida (Oral presentation)
- Ozgul, A, Oli MK, Armitage KB, Blumstein DT, Van Vuren D (2004) Patch occupancy dynamics of a yellow-bellied marmot metapopulation. Rocky Mountain Biological Laboratory, Gothic, Colorado (Oral presentation)
- Ozgul, A, Oli MK, Armitage KB, Blumstein DT, Van Vuren D (2004) Patch occupancy dynamics of a yellow-bellied marmot metapopulation. Wildlife Graduate Student Seminar, University of Florida (Oral presentation)
- Ozgul, A, Getz LL, Oli MK (2003) Demography of fluctuating vole populations. Rocky Mountain Biological Laboratory, Gothic, Colorado (Oral presentation)
- Ozgul, A, Getz LL, Oli MK (2003) Demography of fluctuating vole populations. Wildlife Graduate Student Seminar, University of Florida (Oral presentation)
- Ozgul A (2001) Population distribution of cave-dwelling bat species and conservation status of underground roosts in Northwestern Turkey. MSc Exit Seminar, Bosphorus University (Oral presentation)

POPULAR ARTICLES

- Ozgul A (1998) Peynirlikonu Sinkhole Expedition: A speleological expedition into the deepest cave in Turkey and the 12th deepest cave in the world (-1377m). Atlas Magazine 41: 57-71 (in Turkish)