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EDUCATION

1993 to 1998, 2009 M.Sc. in Entomology. The University of Kansas, Lawrence, Kansas

1987 to 1992 B.Sc. The University of Miami, Coral Gables, Florida

PUBLICATIONS

Refereed Publications:

- (1) Bardunias, P., and R. Jander. 2000. Three dimensional path integration in the house mouse (*Mus domestica*). *Naturwissenschaften* 87: 532-534
- (2) Su, N.-Y., B. M. Stith, H. Puche, and P. Bardunias. 2004. Characterization of tunneling geometry of subterranean termites (Isoptera: Rhinotermitidae) by computer simulation. *Sociobiology* 44: 471-483.
- (3) Bardunias, P., and N.-Y. Su. 2005. Comparison of tunnel geometry of subterranean termites (Isoptera: Rhinotermitidae) in "two dimensional" and "three dimensional" arenas. *Sociobiology* 45: 679-685
- (4) Lee, S.-H., P. Bardunias, and N.-Y. Su. 2006. Food encounter rates of simulated termite tunnels with variable food size/distribution pattern and tunnel branch length. *J. Theoretical Bio.* 243: 493-500.
- (5) Lee, S.-H., N.-Y. Su, P. Bardunias, and H.-F. Li. 2007. Food encounter rate of simulated termite tunnels in heterogeneous landscapes. *BioSystems* 90: 314-322
- (6) Lee, S.-H., P. Bardunias, and N.-Y. Su. 2007. Optimal length distribution of termite tunnel branches for efficient food search and resource transportation. *BioSystems* 90: 802-807
- (7) Lee, S.-H., N.-Y. Su, and P. Bardunias. 2007. Exploring landscape structure effect on termite territory size using a model approach. *BioSystems* 90: 890-896
- (8) Lee, S.-H., P. Bardunias, and N.-Y. Su. 2008. Rounding a corner of a bent termite tunnel and tunnel traffic efficiency. *Behav. Process.* 77: 135-138
- (9) Lee, S.-H., P. Bardunias, N.-Y. Su, and R.-L. Yang. 2008. Behavioral response of termites to tunnel surface irregularities. *Behav. Process.* 78: 397-400
- (10) Lee, S.-H., P. Bardunias, and N.-Y. Su. 2008. Two strategies for optimizing the food encounter rate of termite tunnels simulated by a lattice model. *Ecol. Modeling* 213: 381-388
- (11) Bardunias, P., and N.-Y. Su. 2009. Dead reckoning in the tunnel propagation of the Formosan subterranean termite (Isoptera: Rhinotermitidae). *Ann. Entomol. Soc. Am.* 102: 158-165

- (12) Yang, R.-L., N.-Y. Su, and P. Bardunias. 2009. Individual task load in tunnel excavation by the Formosan subterranean termite (Isoptera: Rhinotermitidae). *Ann. Entomol. Soc. Am.* 102: 906-910.
- (13) Bardunias, P., and N.-Y. Su. 2009. Opposing headings of excavating and depositing termites facilitate branch formation in the Formosan subterranean termite. *Animal Behav.* 78: 755–759.
- (14) Bardunias, P. M., and N.-Y. Su. 2010. Behavioral variation among tunnelers in the Formosan subterranean termite. *J. Asia-Pacific Entomol.* 13: 45-49
- (15) Lee, S.-H., P. Bardunias, and N.-Y. Su. 2010. A novel approach to shape recognition using the shape outline. *J. Korean Physical Soc.* 56: 1016-1019
- (16) Bardunias, P., and N.-Y. Su. 2010. Queue size determines the width of tunnels in the Formosan subterranean termite (Isoptera: Rhinotermitidae). *J. Insect Behav.* 23: 189–204
- (17) Bardunias, P., and N.-Y. Su. 2010. Tunnel orientation by workers of *Coptotermes formosanus* (Isoptera: Rhinotermitidae) subjected to unilateral antennal ablation. *Florida Entomol.* 93: 310-312.

Books, Contributor of Chapter:

Su, N.-Y. and P. Bardunias. 2005. Foraging behavior of subterranean termites (Isoptera: Rhinotermitidae): Food discovery and movement of termites within established galleries. *In* Lee, C.-Y. and W. H. Robinson [eds.], pp. 443-445, Proc. 5th Int'l. Conf. Urban Pests, Suntec, Singapore