

## **George N. Zaimes**

Lecturer TEI Kavallas &  
Affiliate Assistant Professor University of Arizona

### Work Address Greece

Department of Forestry and Natural Environment,  
TEI Kavallas, Annex Drama  
1<sup>st</sup> Km Drama-Microhorion, Drama, Greece 66100  
Email: [zaimesgeorge@gmail.com](mailto:zaimesgeorge@gmail.com)  
Website: <http://www.teidasoponias.gr/english/index.php>

### Work Address USA

School Of Natural Resources, University of Arizona, P.O. Box 210043  
Fax: 520-621-8821, Email: [zaimesgeorge@gmail.com](mailto:zaimesgeorge@gmail.com)  
Website: [http://ag.arizona.edu/research/zaimes/zaimes\\_web/](http://ag.arizona.edu/research/zaimes/zaimes_web/)

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## **I. EDUCATION**

- Ph.D.** Department of Natural Resources Ecology and Management, Iowa State University. December 2004.  
*Land-use practice impacts on stream bank erosion with an emphasis on grazing practices in three Iowa regions.*  
GPA: 3.87 out of 4.00.
- M.S.** Department of Forestry. Iowa State University. December 1999.  
*Streambank erosion adjacent to different riparian land-use practices and stream patterns along Bear creek in north central Iowa.*  
GPA: 3.79 out of 4.00.
- B.S.** Department of Forestry, Iowa State University. May 1997.  
GPA: 3.82 out of 4.00.
- Ptyxio** Department of Forestry, Technological Institute of Kavala, Drama Annex, Greece. Spring, 1995.  
GPA: 6.8 out of 10,0.  
Thesis (with V. Iakovoglou): *Stochastic Flood Model of the Hydrologic Behavior of Privou Torrent, Thasou.*

## **II. PROFESSIONAL EXPERIENCE**

### **Research Interests – Specializations**

Management and Restoration of Riparian Areas  
Management of Watersheds and Ecosystems  
Management of Mountainous Waters and Torrents  
Hydrology  
Hydrogeomorphology and River Morphology

<b>Employer</b>	<b>Position</b>	<b>Town</b>	<b>Dates of employment</b>
TEI Kavalas	Lecturer	Drama, Greece	10/2010- present
TEI Kavalas	Research Assistant	Drama, Greece	03/2008- 09/2010
Univ. of Arizona	Affiliate As. Professor	Tucson, USA	02/2009- present
Univ. of Arizona	Assistant Professor	Tucson, USA	01/2005- 01/2009
Iowa State Univ.	Research Assistant	Ames, USA	08/1997-12/2004
Iowa State Univ.	Teaching Assistant	Ames, USA	01/1998- 05/1998 & 01/2001- 12/2004

### **Editor of International Scientific Journals**

- 2009 - present                      The Open Journal of Hydrology  
(<http://www.bentham.org/open/tohyd/EBM.htm>)

### **Reviewer of International Scientific Journals**

- 2010 - present                      Forest Ecology and Management
- 2009 - present                      Water Resources Management
- 2009 - present                      Journal of Environmental Biology
- 2008 – present                      Catena
- 2008 – present                      Earth Surfaces and Processes and Landforms
- 2008 – present                      Restoration Ecology
- 2008 – present                      Hydrological Processes
- 2007 – present                      Journal of Soil and Water Conservation.
- 2006 – present                      Water Resources Research.
- 2006 – present                      Scientia Agricola.
- 2005 – present                      Journal of American Water Resources Association.
- 2005 – present                      Ecological Applications Journal.

### **Grants received**

1. 2007. 30% responsible. From: National Learning Center for Private Forest and Range Land Owners for \$14,842. Title: *Watershed Function and Water Conservation for Range Management*). Co-PI's: T. Crimmins and A. Thwaites.
2. 2007. 25% responsible. From: Institute for the Study of Planet Earth (ISPE). Translational Science Fellowship for \$15,000. Τίτλος: *Άλταρ Χείμαρρος Πρόγραμμα Αποκατάστασης (Altar Wash Restoration Project)*. Co-PI: T. Sheridan.
3. 2007. 5% υπεύθυνος. From: Institute for the Study of Planet Earth (ISPE). Translational Science Fellowship for \$15,302. Title: *Translating Climate Variability Information for Use by Watershed Managers Through Process-Sensitive Upscaling*. Co-P.I.s K. K. Hirschboeck, M. Crimmins, G. Zaimes and C. Jones.
4. 2006. 60% responsible. FROM: United States Environmental Protection Agency Wetlands Program Development Region IX for 157,907. Title: *Characterization of Microclimate and Vegetation Structure within Riparian Areas along Urbanized and Non-urbanized Ephemeral Streams*. Co-PI: M. Crimmins.
5. 2006. 40% responsible. From: TRIF Fund Water Sustainability Program. University of Arizona Grant Proposal for \$41,469. Title: *On-line Access to Distance-Learning Tools for Watershed Stewardship in Rural Arizona*). Co-PI's: R.M. Emanuel, G.J. Forger, and M. Crimmins.
6. 2006. 30% responsible. From: TRIF Fund Anyplace Access for Arizonans Program. University of Arizona Grant Proposal for \$76,363. Title: *On-line Access to Distance-*

*Learning Tools for Watershed Stewardship in Rural Arizona*. Co-PI's: R.M. Emanuel, G.J. Forger, and M. Crimmins.

7. 2006. 100% responsible. From: Renewable Resources Extension Grant for \$72,000. Title: *Classification, Assessment and Management of Riparian Areas Associated with Upland Rangeland Watersheds (Desert Shrub to Alpine Forest)*.
8. 2006. 33% responsible. From: CALS Cooperative Extension for \$6,000. Title: *Climate and Natural Resources Working Group and State Initiative*. Co-P.I.s: C. Jones and M. Crimmins.
9. 2006. 34% responsible. From: CALS Cooperative Extension for \$3,000. Title: *Using State and Transition Models for Range Management under a Changing Climate*. Co-PI's: M. Crimmins and C. Jones.
10. 2006. 100% responsible. From: Arizona Department of Environmental Quality for 259,820. Title: *Arizona Master Watershed Steward Program (MWS)*.
11. 2005. 100% responsible. From: Agricultural Experiment Station Project for \$14,100. Title: *Grazing Management Practices to Sustain Healthy Riparian Areas and Proper Monitoring Protocols of Arizona*.
12. 2005. 70% responsible. From: Renewable Resources Extension Act for \$10,000. Title: *Importance and Uses of Riparian Areas in Arizona*. Co-PI's: K. McReynolds, J. Sprinkle, J. Schalau, B. Hutchinson, M. Nichols, R. Grumbles, C. Jones.
13. 2005. 100% responsible. From: Faculty Small Grant Proposal for \$7,881. Τίτλος: *Healthy riparian areas; what grazing practices are compatible*.
14. 2003. 75% responsible. From: North Central Region Sustainable Agriculture Research and Education για \$ 10,000. Title: *Are Livestock Grazing and Healthy Streams Compatible? Livestock Grazing Systems that Reduce Erosion and Improve Stream Bank Stability*. Co-PI: Richard Schultz.

#### **Research contracts received**

1. 2008. Contract for the period 01/07/2008-31/10/2008 For 3,000 Euros. Title: *Integrated Development and Management of NATURA 2000 Protected Areas through Innovative Techniques in East. Mediterranean*.

### **III. TEACHING EXPERIENCE**

**Research Assistant** for the Department of Forestry and Management of the Natural Environment, Drama Annex, T.E.I. Kavalas. Courses taught:

- 08-04/07/08. Mountainous Hydrogeomorphology, Technical Hydrology and Control Structures from Mountainous Waters.
- Academic Year 2008-2009. Mountainous Hydrogeomorphology, Snow Management and Control Structures from Mountainous Waters.
- Academic Year 2009-2010. Mountainous Hydrogeomorphology, Snow Management and Control Structures from Mountainous Waters.

**Assistant Professor** for the School Of Natural Resources, University of Arizona, Tucson, USA.

- Seminar series for the School of Natural Resources (RNR 696A, School of Natural Resources Seminar) spring semester 2007.
- Seminar on riparian areas from the WSM 532, Agroforestry course, spring semester 2005.
- Seminar for the RAM 487/587, Rangeland Planning course, spring semester 2007.

**Teaching Assistant** for the Department of Forestry and Natural Resources Ecology and Management, Iowa State University, Ames, USA for the following courses:

- Forestry 416, Plant pathology, spring semester 1997.
- NREM 301 Forest Ecology and Soils every fall semester from 2001-2004.
- NREM 407 Watershed Management every spring semester from 2001-2004

#### **Educational Web-Modules**

- Arizona's Riparian Areas  
Στο: <http://ag.arizona.edu/extension/riparian>
- Crimmins, T., G. Zaimes, G. Forger, C. Rupprecht, and M. Crimmins. 2007 *Arizona Master Watershed Steward online learning modules*.  
Στο: <http://ag.arizona.edu/watershedsteward/resources/module/>

### **IV. LIST OF PUBLICATIONS**

#### **Editor**

1. Zaimes, G. (editor). 2007. Hydrology and Water Resources in: Arizona and the Southwest. Proceedings from the 2006 meeting of the hydrology section of the Arizona-Nevada Academy of Science.
2. Zaimes G.N. (editor). 2007. *Understanding Arizona's Riparian Areas*. University of Arizona Cooperative Extension, Publication # AZ1432.  
Available at: <http://cals.arizona.edu/pubs/natresources/az1432.pdf>

#### **Books (with reviewers)**

3. Zaimes G.N. and R. Emanuel. 2006. *Stream Processes for Watershed Stewards*. University of Arizona Extension Publication # AZ1378g. pp. 28.  
Available at: <http://cals.arizona.edu/pubs/natresources/az1378g.pdf>

#### **Book Chapters (with reviewers)**

4. Zaimes G. 2007. *Defining Arizona's Riparian Areas and their Importance to the Landscape*. In: Zaimes G. (editor), *Understanding Arizona's Riparian Areas*. University of Arizona Cooperative Extension, Publication # AZ1432. pp.1-13.  
Available at: <http://cals.arizona.edu/pubs/natresources/az1432.pdf>
5. Zaimes G., M. Nichols, and D. Green. 2007. *Characterization of riparian areas*. In: Zaimes G. (editor), *Understanding Arizona's Riparian Areas*. University of Arizona Cooperative Extension, Publication # AZ1432. pp. 15-29.  
Available at: <http://cals.arizona.edu/pubs/natresources/az1432.pdf>
6. Zaimes G. 2007. *Human alteration to riparian areas*. In: Zaimes G. (editor), *Understanding Arizona's Riparian Areas*. University of Arizona Cooperative Extension, Publication # AZ1432. pp. 83-109.  
Available at: <http://cals.arizona.edu/pubs/natresources/az1432.pdf>

#### **International Scientific Journals (with reviewers)**

7. Zaimes, G.N. and Crimmins, M.A. 2010. Riparian Areas of the Southwest: Learning from Repeat Photographs. *Journal of Natural Resources and Life Sciences Education*. 39:63-69. doi:10.4195/jnrlse.2009.0042
8. Zaimes, G.N., R.C. Schultz, and M. Tufekcioglu. 2009. *Gully and Stream Bank Erosion in Three Pastures with Different Management in Southeast Iowa*. *Journal of the Iowa Academy of Science* (accepted).
9. Zaimes, G.N., R.C. Schultz, and T.M. Isenhardt. 2008. *Total phosphorus concentrations and compaction in riparian areas under different riparian land-uses of Iowa*. *Agriculture, Ecosystems and Environment* 127:22-30. (Impact Factor: 2,308)

10. Zaimes, G.N., R.C. Schultz, and T.M. Isenhardt. 2008. *Streambank soil and phosphorus losses under different riparian land-uses in Iowa*. Journal of American Water Resource Association 44(4):935-947. DOI: 10.1111/j.1752-1688.2008.00210. (Impact Factor: 1,436)
11. Crimmins, M.A., G. Zaimes, N. Haas, C. Jones, G. Garfin, and T. Crimmins. 2007. *Changes on the Range: A Novel Exercise to Explore Interactions between Range Management Decision Making and Climate Change*. Journal of Natural Resources and Life Sciences Education. 36:76-86.
12. Zaimes, G.N., R.C. Schultz, and T.M. Isenhardt. 2006. *Riparian land-uses and precipitation influences on stream bank erosion in central Iowa*. Journal of American Water Resource Association 42:83-97. (Impact Factor: 1,436)
13. Zaimes, G.N., R.C. Schultz, and T.M. Isenhardt. 2004. *Stream bank erosion adjacent to riparian forest buffers, row-cropped fields, and continuously-grazed pastures along Bear Creek in central Iowa*. Journal of Soil and Water Conservation 59:19-27. (Impact Factor: 1,054)

**Conferences (with reviewers), Technical Reports, and other**

14. Zaimes, G.N., J.R. Martin, M.A. Crimmins, D.M. Green, A.H. Glancy and C. Rupprecht. 2008. *Urbanization Effects on Microclimate and Vegetation Structure of Riparian Areas along Ephemeral Streams – Air Temperature Data*. AWRA Summer Specialty Conference. Riparian Ecosystems and Buffers: Working at the Water's Edge. June 30-July 2, 2008. Virginia Beach, VA.
15. Rupprecht, C. and G. Zaimes. 2008. *Addressing Riparian Needs through Education Volunteer Actions and Community Partnership*. AWRA Summer Specialty Conference. Riparian Ecosystems and Buffers: Working at the Water's Edge. June 30-July 2, 2008. Virginia Beach, VA.
16. Manousis, L., D. Myronidis, G. Zaimes and D. Emmanouloudis. 2008. *Evaluation of Trans-boundary Water Affairs Between Greece and F.Y.R.O.M. under the E.U. Water Framework Directive*. Proceedings for the International Center for Arid and Semiarid Land Studies. November 15-17, 2006. Lubbock, TX.
17. Zaimes, G.N., J.R. Martin, M.A. Crimmins and D.M. Green. 2007. *Characterization of microclimate and vegetation structure within riparian areas along urbanized and non-urbanized ephemeral streams – Preliminary results*. Proceedings for the Regional Water Symposium presented by Southwest Hydrology and Arizona Hydrological Society: Sustainable water, unlimited growth, quality of life; Can we have it all? August 29-September 1, 2007. Tucson, AZ.
18. Schultz, R., G. Zaimes, L Long, M. Tufekcioglu, and T. Isenhardt. 2007. *Stream Bank Erosion along Grazed, Cropped and Buffered Low Order Streams in Midwestern Agricultural Landscapes*. Proceedings for the Third National Conference on Grazing Lands: Grazinglands, Gateway to Success. December 10-13, 2006. St. Louis, MI.
19. Zaimes, G., K. McReynolds, M. Nichols, D. Green, M. Crimmins, J. Sprinkle, J. Schalau, C. Jones. 2006. *A New Approach to Riparian Area Education in Arizona*. Hydrology and Water Resources in: Arizona and the Southwest. Proceedings from the 2006 meeting of the hydrology section of the Arizona-Nevada Academy of Science 36:97-103.
20. Emanuel, R. and G.N. Zaimes. 2006. *Involving Citizens in Watershed Management: The Arizona Master Steward Watershed Program*. Proceedings for the Universities Council on Water Resources/National Institutions for Water Resources Annual Conference: Increasing Freshwater Supplies. July 18-20, 2006. Santa Fe, NM.

21. Zaimes, G.N., K. McReynolds, J. Sprinkle, J. Schalau, B. Hutchinson, M. Nichols, R. Grumbles, C. Jones, M. Crimmins, D. Green. 2006. *A New Approach to Riparian Area Education in Arizona*. Universities Council on Water Resources/National Institutions for Water Resources Annual Conference: Increasing Freshwater Supplies. July 18-20, 2006. Santa Fe, NM.
22. Zaimes, G.N, R.C. Schultz, T.M. Isenhardt, S.K. Mickelson, J.L. Kovar, J.R. Russell, and W.P. Powers. 2005. *Stream bank erosion under different riparian land-use practices in northeast Iowa*. In: Brooks, K.N. and P.F. Ffolliott (eds.) *Moving agroforestry into the mainstream*. The 9th North American Agroforestry Conference Proceedings, June 12-15, 2005, St. Paul, Minnesota. Dept. of Forest Resources, University of Minnesota, St. Paul, MN. CD-ROM.
23. Zaimes, G and D. Green. 2008. *Ribbons of Green; The Riparian Areas of Arizona*. *Backyards and Beyond* 2(2):15-16.
24. Zaimes, G. 2008. *Riparian Areas, Floods, Droughts and Arizona*. *Backyards and Beyond* 2(3):5-6.
25. Zaimes, G.N. (compiled by). 2007. *The Dynamic Nature and Natural Diversity of Riparian Areas: Learning from the Past, Looking at the Present and Planning for the Future. Program and Abstracts*. A University of Arizona Cooperative Extension Workshop. November 8-9, 2007. Camp Verde, AZ.
26. Medina, A.L., J. Sprinkle, D.G. Neary, G. Zaimes, G. Ruyle, L. Smith, J. Maynard, J. Dyess, D. M. Green, and J. G. Hiller. 2006. *Technical Review: Tonto National Forest Riparian Area Management Utilization Guidelines (RAMUG)*. A Report to Mr. David Cook and the Gila County Cattlegrowers.
27. Zaimes, G.N. and R.C. Schultz. 2001. *Phosphorus in Agricultural Watersheds: A Literature Review*. Iowa State University, Ames, IA.  
Available at: [http://www.buffer.forestry.iastate.edu/Assets/Phosphorus\\_review.pdf](http://www.buffer.forestry.iastate.edu/Assets/Phosphorus_review.pdf)
28. Zaimes, G. 2007. *Spatial and Temporal Variability of the Riparian Areas of Arizona*. A newsletter of the Arizona Section Society for Range Management. Fall Issue.  
Available at: <http://azrangelands.org/newsletters/archive.html>
29. Zaimes, G., M.L. Maloney and C. Rupprecht. 2007. *Riparian Areas of Arizona: Climate Driven Ecosystem Changes*. Recharge: A newsletter of the Arizona Master Watershed Steward Program. Volume 2, Issue 3.  
Available at: <http://ag.arizona.edu/watershedsteward/newsletter/>
30. Zaimes, G.N. 2007. *Universities and the average citizen*. The Arizona Wildlifer (newsletter). The Voice of Arizona Chapter of the Wildlife Society. Spring Issue.  
Available at: <http://www.aztws.org/newsletters/TWS07%20Spring.pdf>
31. Zaimes, G.N. 2002. Research Updates: *Stream Bank Erosion*. Riparian Buffer News. Agroecology Issue Team. Iowa State University. Winter Issue.