Timothy D. Baird

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EDUCATION

Ph.D. Geography, University of North Carolina, 2012M.A. Geography, University of North Carolina, 2007

B.A. Economics, Bowdoin College, 1999

General Course, London School of Economics and Political Science, 1998

ACADEMIC APPOINTMENTS

Assistant Professor, 2012-present, Department of Geography, College of Natural Resources and Environment, Virginia Tech

RESEARCH INTERESTS

Conservation, pastoral systems, management of common-pool resources, coupled human and natural systems, complex adaptive systems, regime shifts, sustainable development, information and communication technologies, social networks, undergraduate creativity and education.

PEER-REVIEWED JOURNAL ARTICLES

- * Student Mentee
- Ashley L. Lewis*, Timothy D. Baird and Michael G. Sorice (2016) Mobile phone use and human-wildlife conflict in northern Tanzania. *Environmental Management* **58** (1): 117-129.
- Marc J. Stern and Timothy D. Baird (2015) Trust ecology and the resilience of natural resource management institutions. *Ecology and Society* **20** (2): 14.
- Timothy D. Baird, David J. Kniola, Ashley L. Lewis* and Shelli B. Fowler (2015) Pink Time: Evidence of self-regulated learning and academic motivation in undergraduate students. *Journal of Geography* **114** (4) 146-157.
- Timothy D. Baird (2015) Conservation implications of the diffusion of Christian religious ideals in rural Africa. *Population and Environment* **36** (4): 373-399.
- Catrina A. MacKenzie, Timothy D. Baird, Joel Hartter (2014). Use of Single Large or Several Small Policies as Strategies to Manage People-Park Interactions. *Conservation Biology* **28** (6): 1645-1656.
- Timothy D. Baird and Clark L. Gray (2014). Livelihood Diversification and Shifting Social Networks of Exchange: A Social Network Transition? *World Development* **60**: 14-30.
- Timothy D. Baird (2014). Conservation and unscripted development: Proximity to park associated with development and financial diversity. *Ecology and Society* **19** (1): 4.
- Timothy D. Baird and Paul W. Leslie (2013). Conservation as disturbance: Upheaval and livelihood diversification near Tarangire National Park. *Global Environmental Change* **23** (5): 1131-1141.

- Timothy D. Baird (2013). Parks and Place Fragments: The Implications of Biodiversity Protection in Tanzania and Indiana. *African Geographical Review* **32** (1): 100-104.
- Timothy D. Baird, Paul W. Leslie, and J. Terrence McCabe (2009). Effect of Conservation on Local Perceptions of Risk and Behavioral Response. *Human Ecology* **37** (4): 463-474.
- Thaddeus R. Miller, Timothy D. Baird, Caitlin Littlefield, Gary P. Kofinas, F. Stuart Chapin III, and Charles L. Redman (2008). Epistemological Pluralism: Reorganizing Interdisciplinary Research. *Ecology and Society* **13** (2).

INVITED COMMENTARIES

- Timothy D. Baird (2015) Comment on C. Kasper and M. Borgerhoff Mulder, Who Helps and Why? Cooperative Networks in Mpimbwe. *Current Anthropology* **56** (5): 701-732.
- Timothy D. Baird (2015) Motivate the Future. *Pedagogy in Practice 2014-15*. Center for Instructional Development and Educational Research (CIDER), Virginia Tech, 2-4.

MANUSCRIPTS UNDER REVIEW OR IN PREPARATION

- In preparation: Timothy D. Baird and Joel Hartter. The sword in the phone: Mobile phones, agro-pastoral livelihoods and information diversity (intended for *Land Use Policy*)
- In preparation: Timothy D. Baird, Brian C. Chaffin, David J. Wrathall and J. Anthony Stallins. A disturbance innovation hypothesis (intended for *The Geographical Journal*)
- In preparation: David Jensen*, Timothy D. Baird, Gary B. Blank. Now It's My Backyard: Applying a spatial understanding of NIMBY to Reveal Alternative Scenarios of Emergence (intended for *Journal of Rural Studies*)
- In preparation: Timothy D. Baird, David J. Kniola, Joel Hartter, Kimberly Carlson, Sarah Rogers, Donald Russell and Joseph C. Tice. Adapting Pink Time to promote self-regulated learning across course types (intended for *International Journal of Teaching and Learning in Higher Education*)

GRANTS & AWARDS

External Awards (pending)

National Geographic Society, 2016-2017

Committee for Research and Exploration: The savanna's coming "me" generation: Maasai youth and warrior-hood in a connected world. Timothy Baird (PI) and David Fox (\$19,996).

External Awards (highlights)

National Geographic Society, 2013-2014

Committee for Research and Exploration: Texting the Last Great Herds: Maasai Social Networks and Land Use in the Age of the Cell Phone. Timothy Baird (PI) and Joel Hartter, (\$17,720).

Fulbright-Hays DDRA (through U.S. Department of Education), 2009-2010

Wildlife Conservation and the Role of Inter-household Exchange in Social-Ecological Resilience. Timothy Baird (PI), (\$38,106).

National Science Foundation, 2009-2010

Doctoral Dissertation Research: Wildlife Conservation and the Role of Inter-household Exchange in Social-Ecological Resilience. Paul Leslie (PI) and Timothy Baird, (BCS-0927173) (\$12,000).

Other External Awards

- 2013 Nystrom Dissertation Award (Finalist), Association of American Geographers (AAG)
- 2012 Student Paper Award, Cultural and Political Ecology Specialty Group, AAG
- 2012 Student Paper Award, Africa Specialty Group, AAG
- 2009 George Melendez Wright Scholarship, George Wright Society
- 2009 Dissertation Research Grant, AAG
- 2008 Indiana Dunes National Lakeshore Park Break Fellowship, Texas A&M, NPS, USGS
- NSF Conf. for Sustainability IGERTs Travel Grant, Univ. of Alaska-Fairbanks

Internal Awards (highlights)

Research-related

Human-Centered Smart Environments SEAD Grant, 2016-2017

Institute for Society, Culture and Environment, Institute for Creativity, Arts, and Technology, Virginia Tech. Boosting University Infrastructure for Learning + Discovery (BUILD). Timothy Baird (PI), David Kniola and Pablo Tarazaga. (\$30,000)

Innovation Seed Grant, 2016-2017

Office for Vice Chancellor of Research, University of Colorado, Boulder. Improving Access to Agricultural Knowledge Through Mobile Phones: Exploring the Potential for Technology Adoption in Africa. Joel Hartter (PI), Jason Neff, J. Terrence McCabe, Jeffrey Herrick, Adam Beh, Timothy Baird, Jonathan Salerno. (\$50,000)

SEAD Mini Grant, 2015-2016

Institute for Creativity, Arts, and Technology, Virginia Tech. Identifying collaboration & creativity in instrumented buildings to support innovation. Timothy Baird (PI), David Kniola and Pablo Tarazaga (\$3,000).

NSF IGERT Traineeship, Carolina Population Center, UNC, 2005-2010

Training in population and environment interactions (approx. \$125,000)

Teaching-related

Pathways Minor Delivery Grant, 2016-2018

Office of Undergraduate Academic Affairs, Virginia Tech. Administering Sustainability Pathways Minor. Timothy Baird (PI), Bill Carstensen. (\$70,000)

Pathways Scholar, 2015-2017

Office of Undergraduate Academic Affairs, Virginia Tech. Directing pathways sustainability minor and developing "Africa Together" course. (approx. \$19,000)

Inclusion Pedagogy Grant, 2014-2015

Office of Diversity and Inclusion, Virginia Tech. Pink Time Expansion: Moving from Grade-based to intrinsic motivations for student learning. Timothy Baird (PI) (\$1,500).

Other Internal Awards

- 2013-14 International Travel Supplemental Grants, VT (\$2,700)
- 2013 Assistant Professor Mentoring Grant, Provost's Office, VT (\$1,500)
- 2009-11 GRC Teaching Grants, Office for Undergraduate Research, UNC (\$1,500)
- 2006-11 Department Travel Grants, Dept. of Geography, UNC (\$2,000)
- 2010 Doctoral Research Residency Award, Carolina Population Center, UNC (\$4,550)
- Graduate Tuition Incentive Scholarship, Graduate School, UNC (\$3,000)
- 2010 Graduate Student Mentoring Award, Office for Undergraduate Research, UNC (\$1,000)
- 2009 Interdisciplinary Research Fellowship, Graduate School, UNC (approx. \$10,000)
- 2008 Transportation Grant, Graduate School, UNC (\$1,000)

- Future Faculty Fellowship, Center for Teaching and Learning, UNC (\$500)
- 2007 Pre-Dissertation Research Travel Award, Center for Global Initiatives, UNC (1,000)
- 2005 C. V. Starr International Scholarship, Office of International Affairs, UNC (\$2,500)

TEACHING & ADVISING

Teaching

Assistant Professor, Department of Geography, Virginia Tech, 2012- Present. Undergrad courses: Seeking Sustainability I (GEOG 1115/NR 1115), every fall; Seeking Sustainability II (GEOG 1116/NR 1116), every spring; Environmental Conservation (GEOG 4984), every other spring Graduate courses: Cultural and Political Ecology (GEOG 5984) every other spring.

Instructor/Teaching Fellow, Department of Geography, University of North Carolina, 2008-12.

Undergraduate courses: Environmental Conservation (GEOG 1112); Capstone Course in Geography (GEOG 420) co-taught with Dr. John Florin

Teaching Assistant, Department of Geography, University of North Carolina, 2004-09. Undergraduate courses: Weather & Climate (GEOG 111) Fall 2009; Environmental Systems (GEOG 110) Spring 2005, Fall 2008; World Regional Geography (GEOG 120) Fall 2004.

Advising – current students

PhD students: David Jensen, GEA (chair); Najla Mouchrek, Human Centered Design (committee)

MA/MS students: David Fox, Geography (chair)

Undergrad students: Joseph Tise, Psychology; Virginia Pellington, Journalism and Media Studies

Advising - former students

MA/MS students: Ashley Lewis, Geography (chair); Anna Santo, FREC (committee)
Undergrad students: Carrie Vergel de Dios, Geography; Brooke Baugher, Mechanical Engineering;
Kaylyn Duda, Meteorology

SERVICE

University Service

Member, Multi Modal Transit Facility Sustainability Showcase Committee, Office of University Planning, VT, 2016 – Present

Member, Beyond Boundaries Visioning Initiative – Campus of the Future Working Group, Office of the Provost, VT, 2015-2016

Pathways Scholar, Office of Undergraduate Academic Affairs, VT, 2015 – Present

Director, Sustainability Pathways Minor, Dept. of Geography, VT, 2014 – Present

Member, Energy and Sustainability Committee, Faculty Senate, VT, 2014 – Present

Member, Atrium Task Force, Office of the Provost, VT, 2015

Member, Review committee for 1956 Ut Prosim Scholarship, University Honors, VT, 2014

College Service

Fellow, Sustainability Institute, CNRE, VT, 2015 – 2016

Fellow, Center for Leadership in Global Sustainability, VT, 2013 – 2016

Department Service

Member, Search committee for Department Head, Dept. of Geography, VT, 2015-16

Member, Graduate committee, Dept. of Geography, VT, 2015 – Present

Member, Search committee for Assistant Professor, Dept. of Geography, VT, 2013

Member, Undergrad committee, Dept. of Geography, VT, 2012 – 2013

Co-President, Graduate Association of Geography Students, UNC, 2007 – 2008

Co-Director, Colloquia Speaker Series, Dept. of Geography, UNC, 2005 – 2006

Student Representative, Grad Committee, Dept. of Geography, UNC, 2004 – 2006

Student Member, Advisory Committee, Dept. of Economics, Bowdoin College, 1998 – 1999

Journal & Grant Reviews

Ambio (1); Conservation Biology (2); Ecology and Society (2); Human Organization (2); Journal of Geography (2); Journal of Natural Resources Policy Research (1); National Science Foundation (2); Oryx (1); Rangeland Ecology & Management (1); Sage Open (1); Society & Natural Resources (3)

PRESS

Research in the news

- 2016 "Trust in Natural Resource Management" by Cherice Bock, www.wholeterrain.com (May)
- 2016 "The Maasai Tribe Goes Mobile" by Andrew Zaleski, www.rewrite.ca.com (April)
- 2016 "When Maasai Picked Up the Phone" by Jenifer Joy Madden, www.durablehuman.com (April)
- 2016 "How Texting Helps Maasai Farmers Avoid Lion Attacks in Rural Tanzania" www.motherboard.vice.com (March)
- 2016 Field Notes, "The Maasai: changed, for better or worse, by cell phones" by Daniel Stone, National Geographic Magazine (March)
- 2015 "Modern Family, Age-old traditions rapidly fading on the savannah" by Susan Trulove, Virginia Tech Research Magazine (Summer)
- 2015 Explorer Moment of the Week, "Texting the Last Great Herders," National Geographic Online
- 2015 "New approach to student projects promotes passion, learning for it's own sake" by Lynn Davis, VT News, Virginia Tech (January)
- 2011 "The People and the Park" by Beth Mole, Endeavors Magazine, Office of the Vice Chancellor of Research, UNC (April)
- 2009 Highlight, "An Integrative and Interdisciplinary Approach to Conservation, Livelihoods, and Resilience around Parks and Protected Areas in East and Southern Africa" NSF-IGERT Website

Teaching in the news

- 2015 "Skipping Class" by Tim Baird, Virginia Tech Magazine (Fall)
- 2015 "Pathways Scholars Announced", VT News, Virginia Tech
- 2015 the Ubiquitous Librarian, "Confronting the Unexpected: Pink Time & Intrinsic Learning" by Brian Mathews, the Chronicle of Higher Education (March)
- 2015 "Professors present off-the-wall Pink Time program" by Sam Schmidt and Lewis Millholland, Collegiate Times, Virginia Tech (February)
- 2014 "Teacher of the Week," CIDER, Virginia Tech

Outreach in the News

2008, LOCOVORE nation™ Correspondent for The Splendid Table, American Public Media / National Public Radio. One of 15 selected nationally to participate in year-long qualitative examination of what it takes to live by a regionally based diet. Activities included eating 80% locally for 1 year, extensive blogging and multiple national radio interviews.

EXPERIENCE & TRAINING

Field Research

- 2014 (1.5 months), Social Networks and ICTs / Tanzania / supported by National Geographic Society.
- 2010 (11 months), Dissertation Research / Tanzania / supported by Fulbright-Hays, NSF, CPC
- 2006 (1.5 months), Field Research Training / Tanzania / supported by CPC and other offices at UNC.
- 2005 (1.5 months), Field Research Training / Tanzania / supported by CPC and other offices at UNC.

Media Training

2015, National Geographic Storytelling Bootcamp, Washington DC (incl. training in public speaking, photography, social media, and videography). Organized by Denise Pritchard.

Pedagogical Training

2012-13, New Faculty Teaching Certificate Program, CIDER, VT. Conducted by Peter Doolittle. 2008, Future Faculty Fellow, Center for Teaching and Learning, UNC. Conducted by Ed Neal.

Community Engagement Training

2008, Park Break Fellow, Indiana Dunes National Lakeshore / supported by USGS, NPS, Texas

PRESENTATIONS

Invited Talks

- Baird, T. (2013) Bio-diversifying: How biodiversity conservation breeds social and economic diversity across scales in northern Tanzania, Virginia Tech Africa Coalition, Blacksburg, VA.
- Baird, T. (2013) Conservation as Disturbance: How Tarangire National Park has cultivated social and economic diversity in northern Tanzania, Center for African Studies, University of Florida, Gainesville, FL.
- Baird, T. (2012) Trends in "Unscripted" Development and Education in the Land of Big Game Conservation, Department of Forest Resources & Environmental Conservation, Virginia Tech, Blacksburg, VA.
- Baird, T. (2012) Parks as Disturbance: Economic Diversification and Social Networks in Tanzania, Department of Earth Sciences, Montana State University, Bozeman, MT.
- Baird, T. (2012) Parks as Disturbance: Livelihood Diversification and Social Networks in Northern Tanzania, Department of Geography, Virginia Tech, Blacksburg, VA.
- Baird, T. (2011) Conservation, Disturbance and Social Networks, Department of Geography, University of Delaware, Newark, DE.
- Baird T. (2011) Conservation, Disturbance and Social Networks, Globalisation and Development Program, Maastrict University, the Netherlands

Conference / Workshop Presentations

Teaching

- Baird, T., Kniola, D. (2016, Mar) Adapting the Pink Time assignment to promote self-regulated learning across course types. Paper presented at the annual T-Summit Conference, Washington D.C.
- Biscotte, S., Sible, J., Baird, T. (2016, Mar) Using general education minors to prepare T-shaped graduates. Poster presented at the annual T-Summit Conference, Washington D.C.
- Sible, J., McNair, L., Baird, T. (2016, Feb) More Than a Menu: Creating Interdisciplinary Minors in General Education. Paper presented at the *AAC&U Conference on General Education and Assessment*, New Orleans, LA.

- Baird, T., Kniola, D. (2016, Feb) Adapting the Pink Time assignment to promote self-regulated learning across course types. Paper presented at the annual *Conference on Higher Education Pedagogy at Virginia Tech*, Blacksburg, VA.
- Baird, T. (2016, Jan) The Pink Time experiment. Paper presented at the first annual CNRE Briefing Day, Virginia Tech, Blacksburg, VA.
- Baird, T. (2015, June) Six awarenesses for teaching inter-cultural and global knowledge. Presentation to the *Pathways Summer Institute*, Office of Undergraduate Academic Affairs, Virginia Tech, Blacksburg, VA.
- Baird, T. (2015, April) Looking for learning, creativity and innovation. Presentation to the *Leadership Education Collaborative*, Division of Student Affairs, Virginia Tech, Blacksburg, VA.
- Baird, T., Kniola, D. (2015, February) Pink Time: Evidence of self-regulated learning and academic motivation. Paper presented at the annual *Conference of Higher Education Pedagogy at Virginia Tech*, Blacksburg, VA.
- Baird, T. & Lewis, A., Fowler, S. (2014, February) Pink Time: Moving from grade-based to intrinsic motivations for student learning. Paper presented at the annual meeting of the *Conference on Higher Education Pedagogy at Virginia Tech*. Blacksburg, VA.
- Baird, T. & Lewis, A., Fowler, S. (2013, November) Pink Time: Moving from grade-based to intrinsic motivations for student learning. Paper presented at the annual meeting of the *Southeastern Division of the Association of American Geographers*. Roanoke, VA.

Research

- Baird, T. (2015, April) An Innovation Disturbance Hypothesis. Paper presented at the annual meeting of the *Association of American Geographers*, Chicago, IL.
- Lewis, A., and Baird, T. (2015, April) The effect of mobile phone use on human-wildlife conflict in northern Tanzania. Paper to be presented at the annual meeting of the *Association American Geographers*, Chicago, IL.
- Baird, T. (2014, May) Bio-diversifying: How biodiversity conservation creates disturbance feedbacks by promoting social and economic diversity across scales. Paper presented at the biennial meeting of the *Resilience Alliance*. Montpellier, France.
- Baird, T. & Gray, C. (2014, April) Livelihood Diversification and Shifting Social Networks of Exchange: A Social Network Transition? Paper presented at the annual meeting of the *Association of American Geographers*. Tampa, FL.
- Baird, T. (2013, November) Conservation and Unscripted Development in Northern Tanzania. Paper presented at the annual meeting of the *African Studies Association*. Baltimore, MD.
- Baird, T. (2013, June) Livelihood Diversification and Social Network Transformation in northern Tanzania. Paper presented at the "*Transformation in a Changing Climate*" conference sponsored by the University of Oslo and the IPCC. Oslo, Norway.
- Baird, T. (2013, April) Conservation, Disturbance and Livelihood Diversification in Northern Tanzania. Paper presented at the annual meeting of the *Association of American Geographers* (Nystrom Award Session). Los Angeles, CA.
- Baird, T. (2012, May) Poverty and Livelihood Diversification near Tanzanian Park. Paper presented at the annual meeting of the *Population Association of America*. San Francisco, CA.

- Baird, T. (2012, February) Conservation as Disturbance: Livelihood Diversification and the Role of Cities in Shaping Adaptation. Paper presented at the annual meeting of the *Association of American Geographers*. New York, NY.
- Baird, T. (2012, February) Migration of Diverse Financial Resources to Park Border. Paper presented at meeting of the *South East Regional Seminar in African Studies (SERSAS)*. Chapel Hill, NC.
- Baird, T. (2011, April) Adaptive Responses to Parks: Nearby Communities Developing Quickly. Paper presented at the annual meeting of the *Association of American Geographers*. Seattle, WA.
- Baird, T. (2011, March) Parks as Disturbances: Shifting Patterns of Education Near Tarangire National Park. Paper presented at the biennial meeting of the *Resilience Alliance*. Tempe, AZ.
- Baird, T. & Leslie, P., McCabe, J. (2009, May) Are National Parks Threatening Conservation? Poster presented at the annual meeting of *NSF-IGERT Principal Investigators*. Alexandria, VA.
- Baird, T. & Stehn, S. (2009, March) Protecting Parks in the Next 100 Years. Paper presented at the biennial meeting of the *George Wright Society*. Portland, OR.
- Baird, T. & Leslie, P., McCabe, J. (2008, April) Social Response Diversity in Social-Ecological Systems. Paper presented at the biennial meeting of the *Resilience Alliance*. Stockholm, Sweden.
- Baird, T. & Leslie, P., McCabe, J., Madulu, N., Kiwasila, H. (2007, October) "Don't cheat us out of the land because in this way we will die." Conservation, Risk Mapping and Response Diversity in Tanzania. Poster presented at the *NSF Conference for Sustainability IGERTs*. Fairbanks, AK.
- Baird, T. & Leslie, P., McCabe, J., Madulu, N., Kiwasila, H. (2007, April) The Effect of Conservation of Local Risk Perception and Behavioral Response in Northern Tanzania. Paper presented at the annual meeting of the *Association of American Geographers*. San Francisco, CA.
- Baird, T. & Leslie, P., McCabe, J., Madulu, N., Kiwasila, H. (2006, November) Risk and Response Diversity near Tarangire National Park, Tanzania. Paper presented at the *UNC-UF IGERT meeting*. Gainesville, FL.
- Leslie, P. & McCabe, J., Madulu, N., Kiwasila, H., Baird, T. (2006, September) Parks, Livelihood Diversification, and Perception of Risk and Uncertainty in Northern Tanzania. Paper presented at the annual meeting of the *International Society for New Institutional Economics*. Boulder, CO.

Other Conference/Workshop Activities

- Chair. Paper session Crossing borders: Phones, roads, connectivity and vulnerability near protected areas in East Africa. Annual meeting of the Association of American Geographers. Chicago, IL. April 2015.
- Co-Chair (with David Wrathall, United Nations University). Paper session *Disturbance, Crisis and Creative Construction*. Biennial meeting of the Resilience Alliance. Montpellier, France. May, 2014.
- Invited guest. Workshop Conceptualizing, measuring, and analyzing extremes. Annual meeting of the Doyle Research Group River Retreat Nicholas School of the Environment, Duke University. Boone, NC. January, 2014.
- Panelist. Discussion session *Getting off to a good start*. Future Faculty Program, Office of the Senior Vice President and Provost, Virginia Tech. Blacksburg, VA. January, 2014.
- Chair. Paper session *Perspectives on Human Geography II*. Annual meeting of the Southeastern Division of the Association of American Geographers. Roanoke, VA. November, 2013.

- Co-Chair (with Joel Hartter, University of New Hampshire). Paper session *Beyond Borderlands: New Frontiers for Research and Education in East African Conservation Landscapes*. Annual meeting of the Association of American Geographers. Los Angeles, CA. April, 2013.
- Panelist. Plenary session *Establishing a Successful Mentoring Relationship*. University of North Carolina Graduate Student Orientation. Chapel Hill, NC. August, 2008.
- Panelist. Plenary session *Reflections on Sustainability Research and Integrated Social and Natural Science*. Conference for Sustainability IGERTs (NSF). Fairbanks, AK. October, 2007.

Consulting

Doyle, M. & Baird, T. (2008, June) Linking Social Science and Geomorphology. White paper presented to National Research Council, Panel on Earth Surface Processes, Washington D.C.