

# Timothy D. Baird

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## EDUCATION

PhD Geography, University of North Carolina, 2012  
MA Geography, University of North Carolina, 2007  
BA Economics, Bowdoin College, 1999  
General Course, London School of Economics and Political Science, 1998

## ACADEMIC APPOINTMENTS & AFFILIATIONS

Associate Professor, 2018-present, Department of Geography, Virginia Tech (VT)  
Faculty Principal, 2020-present, Creativity and Innovation District Living-Learning Community, VT  
Visiting Scholar, 2019, Global South Studies Center, University of Cologne, Germany  
Senior Fellow, 2016-present, Institute for Creativity, Arts, and Technology, VT  
Director, 2015-present, Pathways to Sustainability Minor, VT  
Assistant Professor, 2012-2018, Department of Geography, VT

## RESEARCH INTERESTS

Pastoralist systems, common-pool resources, environmental conservation, coupled human and natural systems, livelihood diversification, regime shifts, sustainable development, information and communication technologies, mobile phones, gendered social networks, human-centered smart environments, human-building interactions, indoor geography, building ecology, and undergraduate learning and motivation.

## PEER-REVIEWED PUBLICATIONS

\* Student advisee

Baird, TD (2023) Vignette in **The Faculty Factor: A Vision for Developing Faculty Engagement with Living Learning Communities**. Edited by J Eidum and L Lomicka. Stylus Publishing, LLC.

Baird, TD, JT McCabe, E Woodhouse (2022) Case study 4 Tarangire National Park, Tanzania. In Rebecca Chaplin-Kramer, & Rachel Neugarten. (2022). IPBES VA Chapter 4 - Literature & case study review on outcomes in protected areas and indigenous and community conserved areas (ICCAs). Zenodo. <https://doi.org/10.5281/zenodo.4394267>. In Barton, D.N., Chaplin-Kramer, R., Lazos, E., Van Noordwijk, M., Engel, S., Girvan, A., Hahn, T., Leimona, B., Lele, S., Niamir, A., Özkaynak, B., Pawlowska-Mainville, A., Muradian, R., Ungar, P., Aydin, C., Iranah, P., Nelson, S., Cantú-Fernández M., and González-Jiménez, D. (2022). Chapter 4: Value expression in decision-making. In: **Methodological Assessment Report on the Diverse Values and Valuation of Nature of the Intergovernmental Science-Policy Platform on Biodiversity and Ecosystem Services**. Balvanera, P., Pascual, U., Christie, M., Baptiste, B., and González-Jiménez, D. (eds). IPBES secretariat, Bonn, Germany. <https://doi.org/10.5281/zenodo.6522261>

- Lee, E and TD Baird (2021) Roles of Autonomous Motivation, Individualism, and Instructor Support in Student-Centered Learning in South Korea and the United States. **Educational Technology International** 22 (2) 285-309.
- Quandt, A, JD Salerno, TD Baird, JT McCabe, E Xu, JE Herrick, J Hartter (2021) Mobile phone use and agricultural impacts among female smallholder farmers in Tanzania. **Journal of Gender, Agriculture and Food Security** 6 (1): 43-54.
- Baird, TD, JT McCabe, E Woodhouse, I Rumas, S Sankeni, GO Saitoti (2021) Mobile phones and wrong numbers: how Maasai agro-pastoralists form and use accidental social ties in East Africa. **Ecology and Society** 26 (2) 41.
- Baird, TD (2021) Applying the Own it, Learn it, Share it framework to the flexible Pink Time assignment to scaffold student autonomy online and in person. **Educational Technology Research and Development** 69: 105-108.
- Quandt, A, JD Salerno, JC Neff, TD Baird, JE Herrick, JT McCabe, E Xu, J Hartter (2020) Mobile phone use is associated with higher agricultural productivity in Tanzania, East Africa. **PLOS ONE** (15) 8 e0237337.
- \*Summers, K, TD Baird, E Woodhouse, ME Christie, JT McCabe, F Terta, N Peters (2020) Mobile phones and women's empowerment in Maasai communities: How men shape women's social relations and access to phones. **Journal of Rural Studies** 77: 126-137.
- Baird, TD, DJ Kniola, J Hartter, KA Carlson, D Russell, S Rogers and JC Tice (2020) Adapting Pink Time to promote self-regulated learning across course types. **International Journal of Teaching and Learning in Higher Education** 32 (1).
- \*Fox, D, TD Baird, MJ Stern, SP Prisley (2019) Where mobile groups settle: spatial patterns and correlates of Maasai pastoralist sedentarization in northern Tanzania. **Applied Geography** 112, 102086.
- \*Jensen, D, TD Baird, GB Blank (2018) New Landscapes of Conflict: Land Use Conflict at the Urban-Rural Fringe. **Landscape Research** 44 (4): 418-429.
- Santo, A, K Guillozet, MG Sorice, TD Baird, SA Gray, CJ Donlan and CB Anderson (2017) Examining private landowners' knowledge systems of an invasive species. **Human Ecology** 45 (4): 449-462.
- Baird, TD and J. Hartter (2017) Livelihood Diversification, Mobile Phones and Information Diversity in Northern Tanzania. **Land Use Policy** 67: 460-471.
- Baird, TD, BC Chaffin and DJ Wrathall (2017) A disturbance innovation hypothesis: Perspectives from human and physical geography. **The Geographical Journal** 183 (2): 201-208.
- \*Lewis, AL, TD Baird and MG Sorice (2016) Mobile phone use and human-wildlife conflict in northern Tanzania. **Environmental Management** 58 (1): 117-129.
- Stern, MJ and TD Baird (2015) Trust ecology and the resilience of natural resource management institutions. **Ecology and Society** 20 (2): 14.
- Baird, TD, DJ Kniola, AL Lewis and SB Fowler (2015) Pink Time: Evidence of self-regulated learning and academic motivation in undergraduate students. **Journal of Geography** 114 (4): 146-157.
- Baird, TD (2015) Comment on C Kasper and M Borgerhoff Mulder, Who Helps and Why? Cooperative Networks in Mpimbwe. **Current Anthropology** 56 (5): 701-732.
- Baird, TD (2015) Conservation implications of the diffusion of Christian religious ideals in rural Africa. **Population and Environment** 36 (4): 373-399.

- MacKenzie CA, TD Baird, J Hartter (2014) Use of Single Large or Several Small Policies as Strategies to Manage People-Park Interactions. **Conservation Biology** 28 (6): 1645-1656.
- Baird, TD and CL Gray (2014) Livelihood Diversification and Shifting Social Networks of Exchange: A Social Network Transition? **World Development** 60: 14-30.
- Baird, TD (2014) Conservation and unscripted development: Proximity to park associated with development and financial diversity. **Ecology and Society** 19 (1): 4.
- Baird, TD and PW Leslie (2013) Conservation as disturbance: Upheaval and livelihood diversification near Tarangire National Park. **Global Environmental Change** 23 (5): 1131-1141.
- Baird, TD (2013) Parks and Place Fragments: The Implications of Biodiversity Protection in Tanzania and Indiana. **African Geographical Review** 32 (1): 100-104.
- Baird, TD, PW Leslie, and JT McCabe (2009) Effect of Conservation on Local Perceptions of Risk and Behavioral Response. **Human Ecology** 37 (4): 463-474.
- Miller, TR, TD Baird, C Littlefield, GP Kofinas, FS Chapin III, and CL Redman (2008) Epistemological Pluralism: Reorganizing Interdisciplinary Research. **Ecology and Society** 13 (2).

## INVITED COMMENTARIES

- Baird, TD (2015) Motivate the Future. **Pedagogy in Practice**. Center for Instructional Development and Educational Research (CIDER), Virginia Tech, 2-4.

## MANUSCRIPTS UNDER REVIEW OR IN PREPARATION

- In preparation: Chaplin-Kramer, R, R Neugarten, D Gonzales, G Ahmadia, TD Baird, E Delgoulet, H Eyster, N Kurashima, J Llopis, A Millington, F Saunders, S Shrestha, M Vaughan, K Winter, S Wongbusarakum. From local values to transformative change: Evidence from protected areas.
- In preparation: Lee, E, TD Baird, D Lee. Influences of engagement with student-centered learning on college students' goal orientation and self-regulation: cases from South Korea and the US.
- In preparation: \*Villarreal, M, TD Baird, P Tarazaga, DJ Kniola. Building-based accelerometers and social survey show support for an ideal free distribution of student use of building resources
- In preparation: Woodhouse, E, TD Baird, JT McCabe, P Barnes. Maasai women's household decision-making and empowerment in Tanzania.
- In preparation: Baird, TD, JT McCabe, E Woodhouse, P Barnes. Maasai women's and men's agreement of women's household decision-making and empowerment in Tanzania.

## GRANTS & AWARDS

### External Grants

- National Science Foundation, 2022-2026  
 Human Environment and Geographical Sciences Program (HEGS). Building Ecology: Examining Space-Place Dynamics in a Shared Indoor Environment. TD Baird (PI), N Abaid, D Franusich, DJ Kniola, TJ Pingel, E Tural, T Uptegrove (BCS-2149229) (\$349,703).

Steelcase, Inc., 2018-2020

Active Learning Center Grant: Integrating Social Science and Sensing Technologies to Examine Active Learning Environments. TD Baird (PI), DJ Kniola, P Tarazaga, RB Knapp, V Thomas, R Wynne, L Fuller (approx. \$67,000).

National Science Foundation, 2017-2022

Geography and Spatial Sciences (GSS) & Cultural Anthropology Programs. SBE-RUCK: The effects of mobile phones on gendered social networks, decision making and vulnerability. TD Baird (PI), E Woodhouse, JT McCabe (BCS-1660428) (\$330,034 + £40,051 from Research Councils UK).

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. TD Baird (PI) and J Hartter (CRE #9293-13) (\$17,720).

Fulbright-Hays DDRA, 2009-2010

U.S. Department of Education: Wildlife Conservation and the Role of Inter-household Exchange in Social-Ecological Resilience. TD 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. PW Leslie (PI) and TD Baird (BCS-0927173) (\$12,000).

### **External Honors & Awards**

- 2013 Nystrom Dissertation Award (finalist), American Association of 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
- 2007 NSF Conf. for Sustainability IGERTs Travel Grant, Univ. of Alaska-Fairbanks

### **Internal Awards**

- 2022 Alumni Award for Excellence in International Education, Office of the Vice President for Outreach and International Affairs, VT
- 2018 XCaliber Award for Exceptional, High-Caliber Contributions to Technology-Enhanced Teaching and Learning, Office of the Provost, VT

### **Internal Research Grants**

Sabbatical Fellowship, 2020

Institute for Creativity, Arts, and Technology, VT. T. Baird (PI). Approx. \$42,000

SEAD Mini Grant, 2018-2019

Institute for Creativity, Arts, and Technology, VT. Instrumenting computers labs in Cheatham Hall to support Steelcase Active Learning Classroom. T. Baird (PI), D. Kniola and P. Tarazaga. \$3,000

Human-Centered Smart Environments SEAD Grant, 2016-2017

Institute for Society, Culture and Environment & Institute for Creativity, Arts, and Technology, VT. Boosting University Infrastructure for Learning + Discovery (BUILD). T. Baird (PI), D. Kniola and P. Tarazaga. \$30,000

Innovation Seed Grant, 2016-2017

Office for Vice Chancellor of Research, University of Colorado. Improving Access to Agricultural Knowledge Through Mobile Phones: Exploring the Potential for Technology Adoption in Africa. J. Hartter (PI), J. Neff, J.T. McCabe, J. Herrick, T. Baird, A. Quandt, J. Salerno. \$50,000

SEAD Mini Grant, 2015-2016

Institute for Creativity, Arts, and Technology, VT. Identifying collaboration & creativity in instrumented buildings to support innovation. T. Baird (PI), D. Kniola and P. Tarazaga. \$3,000

National Science Foundation IGERT Traineeship, 2005-2010

Carolina Population Center, UNC: Population and environment interactions. Approx. \$125,000

### **Internal Teaching Honors**

2017, 21 Favorite Faculty Award, Housing and Residential Life, Division of Student Affairs, VT

2020 University Exemplary Department, Department of Geography (member) for Developing and Sustaining Effective Approaches to Teaching with a Global Perspective at the Graduate and Undergraduate Levels, VT

2018, 19 Diggs Teaching Scholar Award (finalist with David Kniola) for excellent teachers who model innovative pedagogical practices that advance, challenge and/or unsettle existing conventions of teaching and learning, Office of Undergraduate Academic Affairs, VT

2018 University Sporn Award (finalist) for excellence in teaching introductory subjects, Office of the Provost, VT

### **Internal Teaching Grants**

Curriculum Globalization Grant, 2019

Global Education Office, VT. Africa Together course. \$3,500

Pathways Minor Delivery Grant, 2016-2018

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

Pathways Scholar, 2015-2017

Office of Undergraduate Academic Affairs, VT. Directing pathways sustainability minor and developing "Africa Together" course. Approx. \$19,000

Inclusion Pedagogy Grant, 2014-2015

Office of Diversity and Inclusion, VT. Pink Time Expansion: Moving from Grade-based to intrinsic motivations for student learning. \$1,500

### **Other Internal Awards**

2018-19 Support from VT CNRE, CLAHS, and SOE to support Steelcase award (\$16,000)

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)

2010 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)

2008 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)

1999 Magna cum laude, Economics, Bowdoin College

## TEACHING & ADVISING

### Teaching

Associate Professor, Department of Geography, Virginia Tech, 2018- Present. Undergrad courses: Seeking Sustainability I (GEOG 1115/NR 1115), every fall; Seeking Sustainability II (GEOG 1116/NR 1116), every spring; Africa Together (GEOG 4984), every other spring. Graduate courses: Human Environment Interactions (GEOG 5984) every other spring.

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; Africa Together (GEOG 4984), every other spring. Graduate courses: Cultural and Political Ecology or Human Environment Interactions (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.

### Graduate advising – current students

MS students: Indunil Dharmasiri, Geography (committee)  
Brandy Ayeso-Danso, Geography (committee)  
Shashank Karki, Geography (committee)  
Addison Flack, Geography (committee)

### Graduate advising – former students

PhD students (committee member):

- Brooke Baugher (2023) Civil Engineering.  
Dissertation: *Understanding the Dimensions of International Engineering Programs in Higher Education: A Qualitative Study with Faculty and Student.*
- Najla Mouchrek (2019) Independent IGEP – Human Centered Design.  
Dissertation: *Empowerment in the Transition to Adulthood: Supporting Career Exploration in College Using Participatory Design.*

MS students (committee chair)

- Mark Villarreal (2022) Geography.  
Thesis: *Distribution of Resource Use in an Informal Learning Environment: Using Sensor Technologies to Bring Geography Indoors.*
- Kelly Summers (2019) Geography.  
Thesis: *Mobile Phones, Social Relations, and the Gatekeepers to Women's Empowerment in Maasai Households.*
- David Fox (2017) Geography.  
Thesis: *Settlement patterns and their potential implications for livelihoods among Maasai pastoralists in northern Tanzania.*
- Ashley Lewis (2015) Geography.  
Thesis: *Human-wildlife conflict and mobile phone use among Maasai pastoralists near Tarangire National Park, northern Tanzania.*

MS students (committee member)

- Taylor Bolte (2019) Civil Engineering.  
Thesis: *Assessing Maintenance and Management of Infrastructure Systems Using Citizen Reported Service Requests*
- Anna Santo (2015) Forest Resources and Environmental Conservation.  
Thesis: *A Human-Centered Approach to Designing an Invasive Species Eradication Program.*

Undergrad students: Carrie Vergel de Dios, Geography; Brooke Baugher, Mechanical Engineering; Kaylyn Duda, Meteorology; Joseph Tise, Psychology; Virginia Pellington, Journalism and Media Studies; Defne Kansu, Industrial Design; Erin Fosnocht, Physics; Owen Callahan, Psychology; Jarek Campbell, Geography; Hallie Weitzenfeld, PCOB

### **Advising – student awards**

- 2019 Kelly Summers, Student Poster Award (1<sup>st</sup> Place) with T. Baird, E. Woodhouse, and M.E. Christie, Women and Gender in Development Conference (CIRED, VT).
- 2017 David Fox, Outstanding Teaching Assistant, VT Department of Geography
- 2014 Ashley Lewis, Deurr Scholarship, Virginia P.E.O. (\$2,000).

## **SERVICE**

### **Disciplinary Service**

Member, Review Panel, National Science Foundation, Spring 2022  
Member, Editorial Board, Human Ecology (Springer), 2019 – present

### **University Service (select)**

Faculty Principal, Creativity and Innovation District Living-Learning Program, Office of the Vice President of Student Affairs, VT, 2020 – present  
Co-lead, Mid-sized discussion/lecture community of practice (Covid-19 response), Office of the Vice Provost for Undergraduate Academic Affairs, VT, 2020  
Member, Climate Action Commitment Working Group, Office of the Vice President and Chief Business Officer, VT, 2020  
Member, Board of Directors, Virginia Tech Services, 2018 – present  
Senior Fellow, Honors Residential Commons, VT, 2017 – 2020  
Senior Fellow, Institute for Creativity, Arts, and Technology, VT, 2016 – present  
Director, Sustainability Pathways Minor, Dept. of Geography, VT, 2014 – present  
Member, Commission on Fraternity and Sorority Life Culture, Office of the Provost, VT, 2018 – 2019  
Pathways Scholar, Office of Undergraduate Academic Affairs, VT, 2015 – 2017  
Member, Beyond Boundaries Visioning Initiative – Campus of the Future Working Group, Office of the Provost, VT, 2015-2016

### **University Service (other)**

Member, Peer Review Team, Academic Program Review for Department of Science, Technology, and Society, VT, 2023.  
Member, Arts@VT Executive Board, Office of the Provost, VT, 2021 – present  
Member, Creativity and Innovation District Executive Comm., Office of the Provost, VT, 2021 – present  
Member, Improvisation, Inspiration, Incubation and Immersion (I4) Residency Organizing Committee, ICAT, VT, 2021 – 2022  
Member, Creativity & Innovation District LLC Design Leadership Team, VT, 2018  
Member, Creativity & Innovation District Working Group, Office of the Provost, VT, 2016 – 2017

Member, Multi Modal Transit Facility Sustainability Showcase Committee, Office of University Planning, VT, 2016 – 2017

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

Member, Energy and Sustainability Committee, Faculty Senate, VT, 2014 – 2017

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

### **College Service**

Member, Promotion & Tenure Committee, CNRE, VT, 2022-present

Member, Nominations and Elections Committee, CNRE, VT, 2021-present

Member, Fall Semester Planning Task Force (Covid-19 response), CNRE, VT, 2020

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

Fellow, Center for Leadership in Global Sustainability, VT, 2013 – 2015

### **Department Service (select)**

Chair, Search committee for assistant professor (coastal studies), VT Geography, 2021

Member, Strategic planning committee, VT Geography, 2020

Member, Promotion & tenure committee, VT Geography, 2018-19

Organizer, Monday/Friday strategic planning initiative, VT Geography, 2018

Member, Search committee for department head, VT Geography, 2016-17

Member, Search committee for department head, VT Geography, 2015-16

Member, Search committee for assistant professor (human ecology of water), VT Geography, 2013

### **Department Service (other)**

Member, Faculty Development Committee, VT Geography, 2022-present

Member, Governance Document Review Committee, VT Geography, 2022

Member, Strategic Advisory Committee, VT Geography, 2021-2022

Member, Communications Committee, VT Geography, 2018-2020

Member, Faculty Development Committee, VT Geography, 2016-2020

Member, Graduate Committee, VT Geography, 2015-2016

Member, Undergrad Committee, VT Geography, 2012-2013

Co-president, Graduate Association of Geography Students, UNC, 2007-2008

Co-director, Colloquia Speaker Series, UNC Geography, 2005-2006

Student representative, Grad Committee, UNC Geography, 2004-2006

Student member, Advisory Committee, Dept. of Economics, Bowdoin College, 1998-1999

### **Journal & Grant Reviews**

Ambio (1); Computers in Human Behavior (1); Conservation Biology (2); Ecology and Society (2); Environment, Development and Sustainability (1); the Geographical Journal (1); Human Dimensions of Wildlife (1); Human Organization (2); Journal of Geography (2); Journal of Natural Resources Policy Research (1); National Geographic Society (1); National Science Foundation (3); Oryx (2); Pastoralism (3); PLOS One (2); Population and Environment (1); Rangeland Ecology & Management (1); Sage Open (1); Society & Natural Resources (3); World Development (3)

## **PRESS**

### **Research in the news**

2022 “When a space becomes a ‘place’” by Marya Barlow, VT News, Virginia Tech (October)

2021 “‘Wrong number? Let’s chat.’ Maasai herders in East Africa use misdials to make connections” by Timothy Baird, J. Terrence McCabe, and Emily Woodhouse, [www.theconversation.com](http://www.theconversation.com) (June)

2020 “Research explores the impacts of mobile phones for Maasai women” by David Fleming, VT News,



- Virginia Tech (August)
- 2019 “Technology Inside Next-Gen Learning Environments Continues to Evolve” by Larry Bernstein, [www.edtechmagazine.com](http://www.edtechmagazine.com) (March)
- 2018 “Classroom Revamp: How four Active Learning Center Grant recipients are transforming their space for the new school year” by Steelcase Education (October)
- 2018 “Steelcase funds work to create an active learning space where students and faculty collaborate” by Susan Bland, VT News, Virginia Tech (May)
- 2017 “On the savanna, mobile phones haven’t transformed Maasai lives... yet” by Timothy Baird, [www.theconversation.com](http://www.theconversation.com) (June)
- 2016 “Trust in Natural Resource Management” by Cherice Bock, [www.wholeterrain.com](http://www.wholeterrain.com) (May)
- 2016 “The Maasai Tribe Goes Mobile” by Andrew Zaleski, [www.rewrite.ca.com](http://www.rewrite.ca.com) (April)
- 2016 “When Maasai Picked Up the Phone” by Jenifer Joy Madden, [www.durablehuman.com](http://www.durablehuman.com) (April)
- 2016 “How Texting Helps Maasai Farmers Avoid Lion Attacks in Rural Tanzania” by Kaleigh Rodgers, [www.motherboard.vice.com](http://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**

- 2022 “2022 Faculty Staff Awards” VT News, Virginia Tech (May)
- 2021 “Va. Tech unveils new dorm” by Amy Friedenberger, The Roanoke Times (August)
- 2021 “Creativity and Innovation District Living-Learning Program ready to welcome students and faculty” by Alexa Briehl, VT News, Virginia Tech (August)
- 2020 “Tim Baird named faculty principal for the Creativity and Innovation District Living-Learning Community” by Sandy Broughton, VT News, Virginia Tech (September)
- 2019 “Welcome to the Pathways to Sustainability Minor” VT News Video, Virginia Tech (January)
- 2018 “Timothy Baird receives XCaliber Award” VT News, Virginia Tech (April)
- 2017 “Innovative ‘Pink Time’ learning exercise puts student on career path” VT News, Virginia Tech, (January)
- 2016 “ACT Faculty Excellence: Elizabeth Hane” by Division of Academic Affairs at Rochester Institute of Technology (December)
- 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**

### **International Field Research, Consulting and Experience**

2022 (1 month) Household decision-making and disruption / **Tanzania** / supported by NSF  
2019 (1 month – 2 trips) ICTs and vulnerability / **Tanzania** / supported by NSF  
2019 (6 months) Research leave / **Germany** / supported by Global South Studies Center, U. of Cologne  
2019 (1 week) Consulting (manufacturing & distribution) / **China & Thailand** / Kizingo LLC  
2018 (1.25 months) Gendered social networks and ICTs / **Tanzania** / supported by NSF  
2018 (1 week) Consulting (manufacturing & distribution) / **China** / Kizingo LLC  
2017 (1.25 months) Social networks and ICTs / **Tanzania** / supported by NSF and Univ. of Colorado  
2014 (1.5 months) Social networks and ICTs / **Tanzania** / supported by National Geographic Society  
2010 (11.25 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  
2003 (5 months) Independent backpacking, **South America**  
2000 (7 months) Independent backpacking, **East and Southern Africa, Egypt**  
1997-98 (9 months) Undergraduate study abroad at London School of Economics, **United Kingdom**

### **Media Training**

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

### **Pedagogical Training**

2020, Covid-19 Community of Practice, Mid-sized lecture/discussion, co-chair with Ashley Reed, VT.  
2018, Steelcase Active Learning Symposium, Grand Rapids, MI.  
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 A&M

## **PRESENTATIONS**

### **Invited talks / panels / select class visits**

15. Talk: (2022, Nov) *Maasai Women's Empowerment: Using Mixed Methods to Examine Household Decision Making*. Public Lecture Series, Center for Development Research, University of Bonn, Germany. (Zoom)
14. Talk: (2022) *The Pink Time Assignment*. Keynote Speaker at 22<sup>nd</sup> Annual Instructional Technology Workshop, Office of Instructional Design, The College of New Jersey. (Zoom)
13. Talk: (2021) *Space and Place in the Creativity and Innovation District Living Learning Community*. ICAT Playdate, Virginia Tech.

12. Comments: (2021) *The Garage and the Palace*. Creativity and Innovation District Living-Learning Community Grand Opening, Virginia Tech.
11. Class visit: (2021) *Mobile phones, women's empowerment and wrong numbers: Maasai in Tanzania*. Guy Grossman (Political Science) course on ICT4D, University of Pennsylvania. (Zoom)
10. Talk: (2020) *Importance of Connection: At home and across the globe*. CNRE Third Thursday Webinar Series, CNRE Office of Advancement. (Zoom)
9. Talk: (2019) *The importance of random ties: Mobile phones and "wrong numbers" in northern Tanzania*, Global South Studies Center, University of Cologne, Germany.
8. Panel: (2019) Forum on Environmental Security: Operationalizing data for evidence-based decision-making, Sponsored by: VT CNRE, ITA International LLC, and International Stability Operations Association, Arlington, VA.
7. Talk: (2013) *Bio-diversifying: How biodiversity conservation breeds social and economic diversity across scales in northern Tanzania*. Virginia Tech Africa Coalition, Blacksburg, VA.
6. Talk: (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.
5. Talk: (2012) *Trends in "Unscripted" Development and Education in the Land of Big Game Conservation*. Department of Forest Resources & Environmental Conservation, Virginia Tech, Blacksburg, VA.
4. Talk: (2012) *Parks as Disturbance: Economic Diversification and Social Networks in Tanzania*. Department of Earth Sciences, Montana State University, Bozeman, MT.
3. Talk: (2012) *Parks as Disturbance: Livelihood Diversification and Social Networks in Northern Tanzania*. Department of Geography, Virginia Tech, Blacksburg, VA.
2. Talk: (2011) *Conservation, Disturbance and Social Networks*. Department of Geography, University of Delaware, Newark, DE.
1. Talk: (2011) *Conservation, Disturbance and Social Networks*. Globalisation and Development Program, Maastricht University, the Netherlands.

### **Conference, Workshop and Other Presentations**

\* Student advisee

#### Teaching & Scholarship of Teaching and Learning (SOTL)

25. Baird, T., and K. Duffey (2022, Aug) How to International. Presentation at the *Friday Friends Speaker Series at the Creativity and Innovation Living-Learning Community*, Blacksburg, VA.
24. Baird, T., and K. Duffey (2022, Jan) How to International. Presentation at the *Friday Friends Speaker Series at the Creativity and Innovation Living-Learning Community*, Blacksburg, VA.
23. Baird, T., D. Fransulich, T. Upthegrove, A. Kim (2021, Nov) Designing sensor-rich environments to transform active learning. Paper presented at the *EDspaces Annual Meeting*, Pittsburgh, PA.
22. Lee, E. & Baird, T. (2020, Apr 17 - 21) College Student Autonomy Support for Student-Centered Learning in the United States and South Korea [Roundtable Session]. *AERA Annual Meeting* San Francisco, CA <http://tinyurl.com/qu48yf2> (Conference Canceled)
21. Baird, T. (2019, Apr) Where's your frontier? Invited speaker for End-of-Year Event, *Honors Residential Commons*. Virginia Tech, Blacksburg, VA.

20. \*Villarreal, M., T. Baird (2019, Feb) Strategies to evaluate informal learning spaces using sensor-based methods. Paper presented at the annual *Conference on Higher Education Pedagogy*, Virginia Tech, Blacksburg, VA.
19. \*Fosnocht, E., T. Baird, (2019, Feb) Integrating social and accelerometer data to examine informal learning spaces. Paper presented at the annual *Conference on Higher Education Pedagogy*, Virginia Tech, Blacksburg, VA.
18. Baird, T., E. Lee (2019, Feb) Comparing Pink Time in South Korea and the United States. Paper presented at the annual *Conference on Higher Education Pedagogy*, Virginia Tech, Blacksburg, VA.
17. Baird, T. (2018, Dec) Applying the Pink Time assignment in a K-8 setting, *Blacksburg New School*, Blacksburg, VA.
16. Baird, T. (2018, Nov) You are not going to discover your passion. Invited talk at Principal's Tea for the *Honors Residential Commons*, Virginia Tech, Blacksburg, VA.
15. Baird, T. (2018, Aug) S\_sustainability: koalas, casseroles, bowling and math. Invited keynote presentation for the Honors Residential Commons Annual Exchange, Virginia Tech, Blacksburg, VA.
14. Baird, T. (2017, Oct) Invited discussion regarding Daniel Pink's Drive and applying Pink Time in the classroom, Faculty Book Group (led by Candice Small), *Radford University*, Radford, VA.
13. Baird, T. (2017, Apr) Invited talk for Principal's Tea, *Honors Residential Commons*, Virginia Tech, Blacksburg, VA.
12. Baird, T. (2017, Apr) Invited talk for Earth Week – SolarFest, *Virginia Tech Student Environmental Groups*, Blacksburg, VA.
11. Baird, T. (2016, Nov) S\_sustainability: koalas, casseroles, bowling and math. Invited presentation for *Turn Down for Watt campaign*, Virginia Tech Office of Sustainability, Blacksburg, VA.
10. 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.
9. 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.
8. 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.
7. 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.
6. Baird, T. (2016, Jan) The Pink Time experiment. Paper presented at the first annual *CNRE Briefing Day*, Virginia Tech, Blacksburg, VA.
5. 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.
4. Baird, T. (2015, April) Looking for learning, creativity and innovation. Presentation to the *Leadership Education Collaborative*, Division of Student Affairs, Virginia Tech, Blacksburg, VA.
3. 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.

2. 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.
1. 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

32. Lee, E., Baird, T. & Lee, D. (2022, October) Influences of engagement with self-determined learning on Korean and US Students' Goal-Oriented and Self-Regulation. Paper presented at the joint annual conference of the *Korean Association for Educational Information and Media* and the *Korean Society of Educational Technology*, Seoul, South Korea. (Presented by Lee)
31. Baird, T., Pingel, T., Kniola, D. (2022, March) How Art, Math, Design, Education, Geography & Lasers Can Help Us Understand the CID. Presentation at the *Friday Friends Speaker Series* at the Creativity and Innovation District Living-Learning Community, Virginia Tech, Blacksburg, VA.
30. Baird, T., McCabe, J.T., Woodhouse, E., Rumas, I., Sankeni, S., Saitoti, G. (2020, November) Mobile phones and the importance of wrong numbers in East Africa. Paper presented at the annual meeting of the *Southeastern Division of the American Association of Geographers*. Online.
29. \*Summers, K., T. Baird, E. Woodhouse, M.E. Christie (2019, Apr) Mobile phones, social relations, and the gatekeepers to women's empowerment in Maasai households. Paper presented at the *Women and Gender in Development Speaker Series*, Center for International Research, Education and Development at Virginia Tech, Blacksburg, VA.
28. T. Baird, E. Woodhouse, J.T. McCabe (2019, Apr) Mobile phones and shifting Maasai social networks in northern Tanzania. Paper presented at the annual meeting of the *American Association of Geographers*, Washington DC
27. \*Summers, K., T. Baird, E. Woodhouse, J.T. McCabe, M.E. Christie (2019, Apr) Mobile phones, social relations, and the gatekeepers to gender equality in Maasai households. Paper presented at the annual meeting of the *American Association of Geographers*, Washington DC
26. \*Summers, K., T. Baird, E. Woodhouse, M.E. Christie (2019, Feb) Without a phone and without communication: Mobile phones and pathways to gender equality. Poster presented at the *Women and Gender in Development Conference*, Virginia Tech, Blacksburg, VA. [Poster Award – 1<sup>st</sup> Place]
25. Baird, T., D. Kniola, P. Tarazaga, B. Knapp, R. Sarlo, E. Fosnacht, M. Villarreal, L. Fuller, V. Thomas, R. Wynne, D. Pillis, M. Ambarkutuk, L. Weber (2018, Nov) BUILD project update: the Steelcase Active Learning Center. *Institute for Creativity, Arts, and Technology (Playdate Speaker Series)*, Virginia Tech, Blacksburg, VA.
24. Baird, T., E. Woodhouse, J.T. McCabe (2018, April) Mobile Phones and Changing Perceptions of Gendered Household Decision-Making in Northern Tanzania. Paper presented at the annual meeting of *American Association of Geographers*, New Orleans, LA.
23. Baird, T. & J. Hartter, J. (2017, November) Livelihood Diversification, Mobile Phones and Information Diversity in Northern Tanzania. Paper presented at the annual meeting of the *Southeastern Division of the American Association of Geographers*, Starkville, MS.
23. Baird, T. (2017, April) Livelihood Diversification, Mobile Phones and Information Diversity in Northern Tanzania. Paper presented at the annual meeting of the *American Association of Geographers*, Boston, MA.
22. \*Fox, D. & T. Baird (2017, April) Settlement patterns and their implications for livelihoods among

- Maasai pastoralists. Paper presented at the annual meeting of the *American Association of Geographers*, Boston, MA.
21. Baird, T., D. Kniola, P. Tarazaga (2017, March) BUILD Project Update. Institute for Creativity, Arts, and Technology (*Playdate Speaker Series*), Virginia Tech, Blacksburg, VA.
  20. \*Jensen, D., Baird, T. & Blank, G. (2016, November) Now It's My Backyard: An Alternative Scenario of NIMBY at the Urban-Rural Fringe. Poster presented at the annual meeting of the *Southeastern Division of the American Association of Geographers*. Columbia, SC.
  19. Baird, T. (2015, April) An Innovation Disturbance Hypothesis. Paper presented at the annual meeting of the *Association of American Geographers*, Chicago, IL.
  18. \*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 of American Geographers*, Chicago, IL.
  17. 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.
  16. 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.
  15. Baird, T. (2013, November) Conservation and Unscripted Development in Northern Tanzania. Paper presented at the annual meeting of the *African Studies Association*. Baltimore, MD.
  14. 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.
  13. 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.
  12. 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.
  11. 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.
  10. 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.
  9. 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.
  8. 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.
  7. 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.
  6. 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.
  5. 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.

4. 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.
3. 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.
2. 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.
1. 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**

- Co-Chair (with Clark Gray, University of North Carolina). Paper sessions (x2) – *Changing Livelihoods and Landscapes in East Africa*. Annual meeting of the American Association of Geographers. Chicago, IL. April 2017.
- 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.

### **Exhibitions**

- Baird, T, D Kniola, P Tarazaga, B Knapp, V Thomas, R Wynne, L Fuller, M Ambarkutuk, L Webber, D Pillis, (2019, Apr-May) The BUILD Project: Boosting University Infrastructure for Learning + Discovery. ICAT: Open (at the) Source Sensing Place, Francis T. Eck Exhibition Corridor, Moss Arts Center, Blacksburg, VA
- Baird, T, P Tarazaga, D Kniola, S Alajlouni, S Bharambe (2017, Apr-May) Placing Sensors, Sensing Places. ICAT: Open (at the) Source Sensing Place, Francis T. Eck Exhibition Corridor, Moss Arts Center, Blacksburg, VA

## **Consulting**

Baird, T (2015-present) Strategic initiatives for Kizingo, LLC (incl. product and brand development, and international operations), Blacksburg, VA

### Patents

US Design Patent, USD9818662S, Child feeding plate, Granted 5/11/21, Applicant: Kizingo,

Inventors: Kiyah Jo Duffey, Timothy David Baird, Alex Barrette, Daniel Martin

US Design Patent, USD917973S1, Child feeding bowl, Granted 5/4/21, Applicant: Kizingo, Inventor:

Kiyah Jo Duffey, Timothy David Baird, Alex Barrette

### Travel

Germany (Cologne) September 2019; Kind und Jugend Trade Show

China (Hong Kong, Shenzhen) – Thailand (Bangkok) January 2019; Distribution and manufacturing

China (Beijing, Ningbo, Shenzhen) May 2018; Distribution and manufacturing

Germany (Cologne) September 2017; Kind und Jugend Trade Show

Germany (Cologne) September 2016; Kind und Jugend Trade Show

### Awards

- European Product Design Award 2019 (Gold, Silver) – member of design team
- International Design Awards 2019 (Silver) – member of design team
- European Product Design Award 2017 (Silver)
- Spark Design Award 2016 (Finalist)
- Reform Design Award 2016 (1<sup>st</sup> Place)

Martin, T, B Knapp, J Ernst, P Zellner Bassett, T Baird, T Drape, D Kniola (2017, May) Research Design for Smart Environments. Steelcase, Inc., Grand Rapids, MI

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