

Tafesse Keyfalew ESTIFANOS

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EDUCATION

The University of Western Australia (UWA), Perth, Western Australia, Australia 2015-2019
PhD, Environmental and Natural Resource Economics

*Research areas: Natural ecosystems and human wellbeing (e.g. livelihood) nexus, Ecological Economics, Environmental valuation, Environmental policy impact evaluation,
Thesis: Values and preferences for the protection of the Ethiopian wolf and the impact of protected areas on local livelihoods*

Ghent University, Ghent, Belgium and **Bielefeld University**, Bielefeld, Germany 2009-2011
European Master of Science in Nematology

*Research areas: Natural Ecosystems, Feeding Ecology of free living nematodes, Stable isotope techniques
Thesis: Selective feeding in nematodes – the importance of algae and bacteria as food sources for free-living nematodes: a stable isotope approach*

Wageningen University and Research (WUR), Wageningen, Netherlands 2006-2008
MSc in Environmental Sciences (Specialization in Environmental Systems Analysis)

Research Areas: Systems analysis, Ecosystem services-rural livelihoods nexus, Systematic stakeholders analysis

Thesis: Integrated Assessment of ecosystem services and stakeholder analysis of Abijata-Shalla Lakes National Park, Ethiopia

Hawassa University (HU), Hawassa, Ethiopia 2001-2005
BSc in Biology

Thesis: “The spoilage potential of Bacillus spp isolated from two common spices in traditional Ethiopian Sauces”

RESEARCH WORK EXPERIENCE

Rubenstein School of Environment and Natural Resources, University of Vermont, Vermont, USA

Postdoctoral Research Associate September 2020-

Project: Modeling the effects of ecosystem change on malaria and other aspects of human health

- Rigorous impact evaluation of forest cover and deforestation on malaria prevalence using global dataset

Supervisors: Professor Taylor Ricketts, Dr Brendan Fisher

Australian Rivers Institute, Griffith University, Queensland, Australia

Postdoctoral Research Fellow April 2020-September 2020

Project: “Development of a cost-benefit assessment framework in support of the State of Land and Water (SOLAW) report 2021”

- Contributed to develop a framework on the effectiveness of policy response on key elements of Drivers-Pressure-State-Impact that influence the agricultural systems (incl. land, water, and soil)

Project: Water Economics: Performance of groundwater market designs

- Designed Choice Experiment Survey

Supervisors: Associate Prof. Anik Bhaduri and Dr Sayed Iftekhar

MALDI-ID Pvt. Ltd, Hamilton Hill, Western Australia

Research Associate

October 2019-November 2019

Project: “A global View on Aquaculture and Market Analysis” (A collaborative research)

- Prepared research report on aquaculture market analysis

Hawassa University, Hawassa, Ethiopia

Research Team Coordinator and Environmental Researcher

2014-2016

Project: “Community-based pond aquaculture in southern Ethiopia – A One Health systems approach integrating human, animal, and environmental health factors” in collaboration with University of Saskatchewan (U of S), Saskatchewan, Canada.

- Co-initiated and collaborated with members of internal and external research teams to develop a successful research project for international funding
- *Principal investigator (PI) was Dr. Murray Drew, Department of Animal and Poultry Science, University Saskatchewan, Saskatchewan, Canada*

Principal investigator (PI)

2014-2015

Project: *Prevalence of Bovine Trypanosomosis and Distribution of Vectors in and around Loko Abya District, Sidama Zone, Southern Nations Nationalities, and People Region, Ethiopia* (A collaborative research project with colleagues at Hawassa University)

- Collected and analyzed field entomological and parasitological laboratory data
- Produced a research report and presented findings to stakeholders in a workshop

Principal Investigator (PI)

2012-2013

Project: *Assessment of ecosystem services of Lake Hawassa and their sustainability to the livelihood of stakeholders, Ethiopia*

- Developed the research project and designed households and national park visitors surveys on mapping and uses of ecosystem services
- Produced a research report classified as one of ‘*the best fit research output and practices for improved livelihoods and sustainable development in Ethiopia*’

Ethiopian Wildlife Association, Addis Ababa, Ethiopia

April 2008-July 2008

Research associate (as intern): Supervisor Dr Yirmed Demeke

Project: *Improving stakeholders’ involvement in the management of Abijata Shalla Lakes National Park (ASLNP), Ethiopia*

- Collaborated with experts from the Ethiopian Wildlife Association, and local stakeholders including farmers that involve in the use and management of protected areas
- Produced a policy-relevant research report on the park and rural people’s local resource dependence - serves as an important data for the development of management plan for ASLNP and other protected areas in Ethiopia

Hawassa University, Hawassa, Ethiopia

Research Assistant

2003-2005

Project ‘*Wastewater treatment through vegetation filters*’

- Designed and managed glasshouse experiment
- Collected and analyzed data on plant growth conditions

Projects: Environmental and ecotoxicology studies of Ethiopian Rift Valley Lakes (ERVLs)

- Conducted field water samples collection from freshwater lakes(ERVLs) and rivers
- Analysed phytoplankton data on primary production

TEACHING AND SUPERVISION EXPERIENCE

University of Western Australia, Perth, Western Australia

Teaching (staff) of postgraduate courses

March 2018-July 2019

- SCIE 4401 Data Use in Science (Using R-Programming): Marking assessment tools
 - Marked students' computer lab exercises, assignments and quizzes
 - Managed students marks on the online Learning Management Systems (LMS) platform
- ECON 4410 Environmental and Resource Economics: Tutor and marking
 - Demonstrated laboratory tutorials on fundamental economic concepts applied to natural resource and environmental management, and application of techniques of non-market environmental valuation
 - Evaluated assessments such as marking students laboratory assignments for the course

Hawassa University, Hawassa, Ethiopia

Lecturer

2008-2015

- Prepared lecture notes and PPT presentations, and taught several undergraduate courses
- Planned, coordinated and supervised students educational field visits to Agricultural research centers and farms, fishery sites, and to national parks for Ecology, Environmental Sciences, Conservation and Management of Natural Resources, and Wildlife Ecology and Management courses
- Conducted researches in areas of environment and human livelihoods and human well-being independently and collaboratively
- Participated in departmental activities including in research and professional meetings

Graduate Assistant

2005-2006

- Taught undergraduate courses: Lab techniques, Mycology
- Coordinated and led field exercises for undergraduate courses Ecology, and Wildlife Ecology and Management
- Carried out marking of laboratory assignments, quizzes, tests and exams

Undergraduate Courses Taught (Full-Time), Hawassa University

- Biol.4104 Conservation and Management of Natural Resources, 2013-2015
- Biol.4101 Principles of Ecology, 2008-2009, 2014-2015
- Biol.4103 Soil Sciences, 2014-2015
- Biol.3068 Principles of Parasitology, 2012-2014
- Biol.4105 Wildlife Ecology and Management 2014
- Biol.455 Environmental Pollution and Water Management, 2009
- Biol.453 Environmental Sciences, 2008-2009

Student Thesis Supervision and Examination

- MSc Project: "*Pond Fish Production, Consumption, and Nutritional Status in rural Ethiopia*", 2016-2017 (Student Darasa Tamiru Desta, Graduated in 2017)
- Advised and examined several undergraduate senior research projects in areas of Environmental Science, Natural Resources Management, Environmental and Social Studies Research (2008-2015)

UNIVERSITY SERVICES

Hawassa University, Department of Biology, Hawassa, Ethiopia

Team leader of the Ecological and Environmental Biology Module Team	2014-2015
Course Coordinator, course Conservation and Management of Natural Resources	2013-2015
Secretary of Research Initiation and Coordination Team	2013-2015
Member of Academic Standards and Quality Assurance Committee	2012-2015
Member of Curriculum Development Committee for Undergraduate and MSc programs	2013-2015
Study advisor of undergraduate Biology students	2012-2015
Member of Academic staff Discipline Committee, College of Natural Sciences	2012-2014
Research Coordinator of Senior Research Projects for undergraduate program	2005-2006

RESEARCH GRANTS

Gund Institute for Environment, University of Vermont, Vermont, US\$5,000 per year	2020
Industry and PhD Research Engagement Program (iPREP-WA), Western Australia, in collaboration with two Western Australia PhD Researchers, AU\$ 10,000,	2019
Centre for Environmental Economics and Policy, The University of Western Australia and Australian Research Council Centre of Excellence for Environmental Decisions (ARC CEED), AU\$ 5500,	2016-2017
Research Development Grant of Provost's Committee on Integrated Planning (PCIP): Co-Investigator: collaborated with Dr. Murray Drew (PI), Dr. Kyla Zatti, Dr. Gord Zello, Dr. Markus Hecker, Dr. Scott Bell, Dr. Tim Jardine, Dr. Jeff Sereda, Dr. Zinabu Gebremariam, Dr. Ermias Deribe, Kassaye Balkew, Bereket Haji, Canada Dollars \$20,000,	2014-2016
Research and Technology Transfer Directorate, Hawassa University, Ethiopia. US\$ ~800 (34,660 Ethiopian Birr)	2014-2016
Research and Technology Transfer Directorate, Hawassa University, Ethiopia, US\$ 1000 (14,600 Ethiopian Birr),	2013-2014
Horn of Africa for Regional Environmental Network (HoA-REN/C) and Royal Kingdom of the Netherlands, US\$ 4600,	2007-2008

INTERNATIONAL SCHOLARSHIPS AND AWARDS

Australian Government Research Training Program (RTP), University of Western Australia (UWA), Western Australia, Australian Dollars (AU\$) 30,000 per annum,	2017-2019
Australian Postgraduate Award (International), University of Western Australia	2015-2019
Postgraduate Student Association Conference Travel Award, University of Western Australia, AU\$ 900,	2018
Graduate Research Student Travel Award, University of Western Australia, Austria	2016-2017
Australian Research Council, Centre of Excellence for Environmental Decisions (ARC CEED), Centre for Environmental Economics and Policy, The University of Western Australia AU\$ 5,500,	2016-2017
Graduate Research Travel Award, University of Western Australia, AU\$ 1,850,	2016-2017
International Postgraduate Research Scholarship (IPRS), University of Western Australia, Western Australia AU\$ 25, 849 per annum,	2015-016
UWA Safety-Net Top-Up Scholarship, University of Western Australia, AU\$ \$3,151 per annum,	2015-2016
European Commission: Erasmus Mundus Scholarship for a two-years European Master of Science in Nematology, Ghent University, Ghent, Belgium, Euro 42000	2009-2011
Netherlands Fellowship Program for a two-years MSc study, Wageningen University, Netherlands, a stipend of Euro 860 per month (Euro 20640)	2006-2008

PUBLICATIONS

Articles (Peer reviewed)

Estifanos, T.K, Polyakov, M., Pandit, R., Hailu, A., & Burton, M. (2020). Managing conflicts between local land use and the protection of the Ethiopian wolf: Residents preferences for conservation program design features. *Ecological Economics*, 169,106511

<https://doi.org/10.1016/j.ecolecon.2019.106511>

Estifanos, T.K, Polyakov, M., Pandit, R., Hailu, A., & Burton, M. (2020) The Impact of protected areas on the rural households' incomes in Ethiopia. *Land Use Policy*, 91, 104349.

<https://doi.org/10.1016/j.landusepol.2019.104349>

Estifanos, T., Polyakov, M., Pandit, R., Hailu, A., & Burton, M. (2019). What are tourists willing to pay for survival of a flagship species? The case of protection of the Ethiopian wolf. *Tourism Economics* <https://doi.org/10.1177/1354816619880430>

Estifanos, T., Polyakov, M., Pandit, R., Hailu, A., & Burton, M. (2018). Protection of the Ethiopian Wolf: What are tourists willing to pay for? Working Paper 1801, Agricultural and Resource Economics, University of Western Australia, Crawley, Australia.

DOI [10.22004/ag.econ.272805](https://doi.org/10.22004/ag.econ.272805)

Estifanos, T. K., Traunspurger, W. & Peters. L. (2013). Selective feeding in nematodes: A stable isotope analysis of bacteria and algae as food sources for free-living nematodes. *Nematology*, 15, 1-13. <https://doi.org/10.1163/156854112X639900>

CONFERENCE PRESENTATIONS

Estifanos, T., Polyakov, M., Pandit, R., Hailu, A., & Burton, M. (2020). Managing conflicts between local land use and the protection of the Ethiopian wolf: Residents preferences for conservation program design features. Southern Economic Association 90th Annual Meeting | Nov 21, 2020 - Nov 23, 2020 | New Orleans Marriott, USA

Estifanos, T., Hailu, A., Polyakov, M., Pandit, R., & Burton, M. (2020). The impact of protected areas on the rural households' income in Ethiopia. 64th Australasian Agricultural and Resource Economics Society (AARES) Conference, 10-14 February 2020, Perth, Australia.

Estifanos, T., Hailu, A., Polyakov, M., Pandit, R., & Burton, M. (2019). Estimating impact of Ethiopian protected areas on rural households' livelihoods. Paper presented at Agriculture and Resource Economics and the Australian Agricultural and Resource Economics Society (AARES) seminars 03 May 2019, University of Western Australia, Perth, Australia.

Estifanos, T., Polyakov, M., Pandit, R., Hailu, A., & Burton, M. (2019). Managing conflicts between local land use and the protection of the Ethiopian wolf: Residents preferences for conservation program design features. 63rd Australasian Agricultural and Resource Economics Society (AARES) Conference, Vic, 12-15 February 2019, Melbourne, Australia.

Estifanos, T., Hailu, A., Polyakov, M., Pandit, R., & Burton, M. (2018). *Estimating willingness to pay for the rarest canid species in Africa: Analysis of tourists' preference for the protection of the Ethiopian wolf.* 6th World Congress of Environmental and Resource Economists Conference (25-29 June 2018), Gothenburg, Sweden

Estifanos, T., Polyakov, M., Pandit, R., Hailu, A., & Burton, M. (2018). *Protection of the Ethiopian wolf: What are tourists willing to pay for?* Paper presented at the Centre of Excellence for Environmental Decisions (CEED) Tweeter conference. 22 May 2018, Australia

PROFESSIONAL SERVICES

Reviewed Research Paper for Ecology and Society Journal, 2020

Reviewed Conference abstracts for Association of Environmental and Resource Economists (SEA-AERE), 2020

Volunteered organizing conference for 64th Australasian Agricultural and Resource Economics Society (AARES) 10-11 February 2020, Perth, Australia

Chaired conference presentations for parallel sessions at the 6th World Congress of Environmental and Resource Economists conferences (June 25-29, 2018), Gothenburg, Sweden

Coordinated seminar series (monthly) and research workshops, Department of Biology, Hawassa University, Hawassa (2012-2015)

Delivered skills training: Meta-cognitive Skills Development strategies of Science and Environmental Studies learning to Secondary School Teachers and students, Hawassa University, Hawassa, Ethiopia (October-November 2013; April-May 2015)

Community services and outreach: Featured on local FM Radio program and discussed the research findings of the project 'Ecosystem services of Lake Hawassa and its values to local livelihoods', Hawassa University, Hawassa, Ethiopia, 2014

MEMBERSHIP AND SKILLS

Membership: Member of Association of Environmental and Resource Economists (AERE); The Australasian Agricultural & Resource Economics Society (AARES)

Quantitative methods: Non-market Environmental Valuation, Matching (causal inference)

Office applications: Microsoft Office (Word, Excel, PowerPoint, Access)

Statistical package /Econometrics: SPSS; Stata, R-program, Latent Gold Choice Modelling

Language: Amharic (native), English, attended A1 German Language short term training

Survey designs: Socioeconomic and Livelihood Surveys, Environmental and Discrete Choice Experiments Surveys

Field/Lab experience: Ethiopia, Sweden, Belgium, Germany

PROFESSIONAL TRAININGS

Impact Evaluation and Causal Inference for Agricultural and Environmental Interventions, 64th Australasian Agricultural and Resource Economics Society (AARES) preconference training workshop, 10-11 February 2020, Perth, Australia

Mainstreaming Bio-farming system, Bio-farming School, Addis Ababa, Ethiopia in Collaboration with University of Molise, Italy (15-20 Sept 2014)

Choice Modelling Statistical Training: Online course "Introduction to Latent Class Modelling" for Latent Gold choice modelling, Statistical Innovations, Belmont, MA 02478-0001, USA, (12 Jan-02 Feb 2018)

Higher Diploma Training for Professional Teaching: Hawassa University, Hawassa, Ethiopia, (Oct. 2012-Aug. 2013)

RESEARCH INTERESTS

Human Dimensions of Environment and Environmental Sustainability

Modelling Environment and outcomes of human health and wellbeing

Ecological Economics: Non-market Environmental Valuation

Impact evaluation of environmental policy, social programs

Applied Economics with emphasis on econometrics and economic modelling

REFEREES

1. Dr. Atakelty Hailu

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University of Western Australia, Crawley, WA
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2. Dr. Maksym Polyakov

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Manaaki Whenua – Landcare Research,
Auckland, New Zealand

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3. Dr. Michael Burton

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4. Dr. Ram Pandit

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