

MUGABE DOUGLAS CV

Resource Economics and Environmental Sociology, University of Alberta
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PERSONAL DETAILS

Professional Website:	University of Alberta Page
Google Scholar:	Google Scholar Page
Personal Website:	WixSite Page
ORCID ID:	ORCID Identifier
Linked-In Site:	LinkedIn Page
Research-Gate:	ResearchGate Page

EDUCATION

PHD, Natural Resource Economics West Virginia University, US	2020
PgDip, University Teaching Midlands State University, ZW	2015
MSc, Agricultural and Applied Economics University of Zimbabwe, ZW	2011
BSc, Agricultural Economics and Extension University of Zimbabwe, ZW	2007

RESEARCH INTERESTS

Energy and Resource Economics, Environmental Policy and Analysis, Climate Change, Agriculture and Productivity Analysis

PEER REVIEWED PUBLICATION

Climate Change, Natural Disasters and Institutional Integrity. *World Development*, 157, 105931. (2022). (with Khurana., R, and Etienne, X.)

All the DUCs in a Row: Natural Gas Production in the US. *The Energy Journal*, 42(3). (2021). (with Elbakidze L., and Carr T.)

Elasticity of Substitution and Technical Efficiency: Evidence from the US Electricity Generation. *Applied Economics*, 52(16): 1789-1805. (2020). (with Elbakidze L., and Zaynutdinova G.)

How efficient is maize production among smallholder farmers in Zimbabwe? A comparison of semi-parametric and parametric frontier efficiency analyses. *Applied Economics*, 51(26), 2855-2871 (2019). (with Etienne X., and Ferrara G.)

Estimation of Optimal Land Use Allocation Among Small Holder (A1) Farmer Households in Zimbabwe. A Case Study of Long Croft Farm, in Mazowe District. *Canadian Journal of Agricultural Science*, 6(2), 170. (2014). (with Chipunza N., Mupaso N., Munyati V., and Makarudze F.)

Characterization of Smallholder Irrigation Schemes in Chirumanzu District, Zimbabwe. *Canadian Journal of Agricultural Science*, 6(2), 189. (2014). (with Mupaso N., Nyamutowa C., Masunda S., and Chipunza N.)

An econometric approach to ascertain sorghum supply response in Zimbabwe. *African Journal of Agricultural Research*, Vol 8(47). (2013). (with Munyati V., Chipunza N, Mafuse N., Chagwiza G. and Musara J.P.)

TEACHING EXPERIENCE

University of Alberta, REES Department (Assistant Professor, Resource Economics) *Current*
Management for Agri-Food, Environmental, and Forestry Businesses (Undergraduate Level):- Fall and Winter
Natural Resource Economics (Undergraduate Level):- Fall and Winter
Strategic Management in Food and Resource Businesses (Undergraduate Level):- Winter
Strategic Management in Food and Resource Businesses (Graduate Level):- Winter
Directed Research Project (Graduate Level):- Summer

St. Olaf College, Department of Economics (Visiting Assistant Professor, Economics) *2020-2022*
Energy Economics (Undergraduate Level):- Spring
Principles of Economics (Undergraduate Level):- Fall; J-Term and Spring

West Virginia University, Division of Resource Economics and Management *2017-2020*
Environmental and Resource Economics (Undergraduate Level):- Spring-2020 (Lead Instructor)
Energy Resource Economics (Undergraduate Level):- Spring-2018 (Teaching Assistant)
Resource Economics (Undergraduate Level):- Spring-2018 (Teaching Assistant)
Agribusiness Management (Undergraduate Level):- Fall-2017 (Teaching Assistant)
Agriculture and Natural Resource Law (Undergraduate Level):- Fall-2017 (Teaching Assistant)

Midlands State University, Department of Agricultural Economics (Lecturer) *2012-2015*
Production Economics (Undergraduate Level):- Semester I and II
Econometrics Theory I (Undergraduate Level):- Semester I and II
Microeconomics II (Undergraduate Level):- Semester I and II
Microeconomics I (Undergraduate Level):- Semester I and II
Project Management (Undergraduate Level):- Semester I and II
N.G.O. Management and Development (Undergraduate Level):- Semester I and II

Rio Tinto College of Agriculture, Department of Farm and Agribusiness (Lecturer) *2008-2008*
Principles of Economics:- Term I and II
Agribusiness Management:- Term I and II

Government of Zimbabwe, Department of Education (High School Teacher) *2004-2007*
Mathematics, Biology and Chemistry

PROFESSIONAL EXPERIENCE

University of Alberta, Resource Economics and Environmental Sociology
Assistant Professor of Resource Economics *2022-Present*

St. Olaf College, Department of Economics
Visiting Assistant Professor of Economics *2020-2022*

West Virginia University, Division of Resource Economics and Management
Graduate Research Assistant, Regional Research Institute *2018-2020*
Graduate Research Assistant, Resource Economics and Management *2015-2020*

Midlands State University, Department of Agricultural Economics
Full-time Lecturer *2013-2015*
Visiting Lecturer *2012-2013*

International Relief and Development, Zimbabwe
Agri-Trade Officer, US-AID funded ZIM-AIED Project *2011-2013*
Sub-Consultancy, Willingness to Pay for Rainwater Harvesting Project *2010-2010*

LEAD Trust, Zimbabwe Sub-Consultancy, Drought Tolerance Crops Program	<i>2010-2010</i>
Center for Applied Social Sciences, Zimbabwe Sub-Consultancy, Oil-Seeds Value Chain Project	<i>2009-2009</i>
Government of Zimbabwe, Department of Irrigation Economist	<i>2008-2009</i>
Rio Tinto College of Agriculture, Department of Farm and Agribusiness Management Lecturer	<i>2008-2008</i>

STUDENT ADVISING

Graduate Student Advising

Tendai Maparara (PhD, Student) *2022-*

Dissertation Title: Head and Tail Dynamics: Implication on Gender Equity in Smallholder Irrigation Schemes, A Case of Mushandike, Masvingo Province, Zimbabwe.

Program Coordinator: Master of Agriculture (MAg), University of Alberta *2022-*

MAg is one year course-based program, the focus is on interpretation, adaptation, and application of research findings, rather than carrying out research.

Advisor: Omicron Delta Epsilon (ODE), St. Olaf College *2021*

ODE is one of the largest honor societies in the world. Its purpose is to encourage and recognize high scholastic attainment in economics and to establish closer ties between students and professors both within and across institutions of higher learning.

AWARDS AND HONORS

Dale Colyer Division of Resource Management Award	<i>2020</i>
Thomas F. Torries ARE Student Actualization Endowment Grant (twice)	<i>2019</i>
Canadian Resource and Environmental Economics Association Travel Grant	<i>2019</i>
Dean's Outstanding Doctoral Student, Davis College, WVU	<i>2018</i>
Gamma Sigma Delta, National Honor Society of Agriculture, WVU	<i>2018</i>
Honor Society of Phi Kappa Phi, WVU Chapter	<i>2017</i>
Fulbright Scholarship, PhD, WVU	<i>2015</i>
African Economic Research Consortium Scholarship, MSc, University of Zimbabwe	<i>2008</i>

OTHER PUBLICATIONS

Three Essays on "Production and Technical Efficiency" (2020). Graduate Theses, Dissertations, and Problem Reports. (2020) 7748. *West Virginia University*.

Intra-Industry Trade: Cooperation and Conflict in the Global Political Economy. *Review of Regional Studies* 47(2):224. Southern Regional Science Association Inc. (2017). 0048-749X

Farm Management. Department of Science Education and Agricultural Science (Dipsced Agricultural Science, Module DAE 008). *Bindura University of Science Education*. (2013). (With Mafuse E., and Munyati V.T.)

Estimation of Optimal Land Use Allocation Among Small Holder (A1) Farmer Households in Zimbabwe. A Case Study of Long Croft Farm, in Mazowe District. Master's Thesis. (2011) *University of Zimbabwe*.

OTHER RESEARCH PROJECTS INVOLVED

Regional Research Institute, West Virginia University

2018-2020

Regional Industry Cluster Analysis of Metropolitan Areas in Potomac Region.

Regional Industry Cluster Analysis of Metropolitan Areas in Appalachian Region.

Implications of Long-Term Changes (shocks) in the Energy-Economy Forecasts on the US Macro-Economy.

WORK IN PROGRESS

Real option investments and exercise timing: Lessons from the US shale gas industry. (With Elbakidze L., and Zaynutdinova G.)

Analyzing the tax policy impacts on the Shale Gas Industry: Evidence from US unconventional oil and gas industry. (With Pinky Thomas and Alan Collins)

Implications of Bonding Requirements on Unconventional Oil and Gas Production: Evidence from West Virginia and Pennsylvania. (With Scarciollo A and Shishir Shakya)

CONFERENCE PRESENTATIONS

Southern Economic Association 91st Annual Meeting, US

All the DUCs in a Row: Natural Gas Production in the U.S.

2021

Agricultural and Applied Economics Association Annual Meeting, US

Investments of Publicly Traded versus Privately Held Firms: Evidence from Stranded Growth Options in the U.S. Shale Gas Industry.

2020

Drilled but Uncompleted Wells and Natural Gas Production.

2019

Do Climate Change Induced Natural Disasters Disrupt Legal Integrity?

2018

How Efficient is Maize Production Among Smallholder Farmers in Zimbabwe?

2016

Canadian Resource and Environmental Economics Annual meeting

Real option investments and exercise timing: Lessons from the US shale gas industry

2021

All the DUCs in a Row: Natural Gas Production in the US.

2019

Reassessing the Truth: International Conference Organized by CIGRU, ASIL, gLAWcal.

Elasticity of Substitution and Technical Efficiency Analysis

2019

World Congress of Environmental and Resource Economists.

Regional Adjustment Heterogeneity in Electricity Generation: Evidence from US.

2018

Annual Graduate Research and Creative Scholarship Day. West Virginia University

Drilled but Uncompleted Wells and Natural Gas Production

2019

Substitution in Electricity Generation: A State Level Analysis of Structural Change from Hydraulic Fracturing Technology

2018

How Efficient Is Maize Production Among Smallholder Farmers in Zimbabwe? A Comparison of Semi-parametric and Parametric Frontier Efficiency Models 2018

SPEAKER: INVITED GUEST

University of Alberta, Department of Resource Economics and Environmental Sociology
Seminar and Brown Bag Workshop 2022 2022

West Virginia University, Division of Resource Economics and Management
Navigating the Job Market: Academic Job Market Advice for PhD Students in Applied Economics 2022

REFEREEING

Economic Modelling Since 2021

The Energy Journal Since 2020

Applied Economics Since 2019

Scientific African Since 2019

The Review of Regional Studies Since 2016

Asian Journal of Agricultural Extension, Economics and Sociology Since 2016

MEMBERSHIP

Southern Economic Association Since 2020

National Center for Faculty Development and Diversity Since 2020

Association of Environmental and Resource Economists Since 2019

African Finance and Economic Association Since 2019

Canadian Resource and Environmental Economics Association Since 2019

The Canadian Agricultural Economics Society Since 2019

The Northeastern Agricultural and Resource Economics Association Since 2018

Honor Society of Phi Kappa Phi Since 2017

American Economic Association Since 2016

Agricultural and Applied Economics Association Since 2016

Morgantown Mountain Men Club, West Virginia 2015-2020

SERVICE

University of Alberta, CAN

Program Coordinator, Master of Agriculture (MAg) 2022-

Member, Agri-Food Business Management Program Committee 2022-

St. Olaf College, US

Advisor, Omicron Delta Epsilon (ODE) 2021-2022

Monongalia County Schools

Member, Parent Liaison Group	<i>2019-2020</i>
West Virginia University, US	
Member, Davis College Dean's Search Committee	<i>2019-2020</i>
Treasurer, Graduate Resource Economics Club	<i>2018-2019</i>
Midlands State University, Zimbabwe	
Chair, Research Committee	<i>2014-2015</i>
Member, Website Committee	<i>2014-2014</i>
Salvation Army, WV, United States	
Member, Morgantown Mountain Men Club	<i>2016-2017</i>
Participant, Angel Tree Distribution	<i>2015-2016</i>
Salvation Army, Zimbabwe	
Youth Choir Leader, Harare, Zimbabwe	<i>2014-2015</i>
Kanyemba Secondary School, Zimbabwe	
Vice Chairperson, Old Students Association (Alumni Association)	<i>2013-2015</i>
Dawn Club, Harare, Zimbabwe	
Club Secretary	<i>2013-2014</i>
Rio Tinto College of Agriculture, Zimbabwe	
Acting Principal	<i>2008-2008</i>
Vice Principal	<i>2008-2008</i>
Head, Farm and Agribusiness	<i>2008-2008</i>
Chair, Marketing committee	<i>2008-2008</i>
Chair, Procurement committee	<i>2008-2008</i>
Chair, Graduation committee	<i>2008-2008</i>
Chair, Disciplinary committee	<i>2008-2008</i>
Chair, Security committee	<i>2008-2008</i>