

CV
Hon. Betty Pachutho Udongo, Ph.D.
Research Scientist / Consultant
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Professional Profile

- Hon. Dr. Betty Pachutho Udongo is a science educator with comprehensive pedagogical content knowledge in teaching science by inquiry and hands-on in the fields of Biology, Botany, Life Science, and Life Skills
- She is an expert in science education policy and particularly education in crisis
- She is a researcher, a girls' education practitioner, activist and advocate, especially in science, math, technical and vocational education
- She possesses a strong leadership and organizational skills, as well as extensive cross-cultural (international) experiences
- She has a passion for good governance, community development, human rights issues and global peace
- She has highly developed interpersonal qualities and is disciplined, dependable and takes initiatives
- She is perceptive, has a strong work ethic with integrity and has the ability to work in a team environment
- She is eloquent, inspiring and a motivational public speaker
- She served in the 7th Ugandan Parliament as the Vice Chair for the committee of Defense and Internal affairs
- She has excellent computer skills and experience in E-learning, E-commerce and online business
- She is also an entrepreneur and a trail blazer. She has founded several business and non-profit organizations both in Uganda and the United States of America

EDUCATIONAL BACKGROUND

- PhD. Science Education, Mallinson Institute for Science Education (June 2009), Western Michigan University, USA.
- Masters of Science in Botany, Makerere University (1999), Kampala, Uganda
- Bachelor of Education (Science) Dar-es- Salaam University, Tanzania, 1988 – 1992
- Higher School Certificate, Gayaza High School, Kampala Uganda, 1985 – 1988
- Ordinary Level Certificate, Warr Girls Secondary School, Nebbi District, 1981 – 1984

EMPLOYMENT RECORDS

- Consultant (Pro-Bono) Albinism Umbrella, 2017 to date
- Consultant, The Pincer Group International Limited (November 2016 to date)
- Director/Senior Research Fellow, Research & Training, Pincer Group International Ltd (2015-2016)
- Founder and Executive Director, NEBSTAR Inc. USA (August 2011 to date)
- Executive Director of Prayer Clinic International (March 2011 to August 2011)
- Director, International Business and Trade, Global Bazaar, USA (2008 to date)
- Head, Biology Department and lecturer Faculty of Science, Gulu University (March to October, 2010)
- Founder and President of Prayer Clinic International (2008-2009)
- Doctoral Associate / Biology Instructor, Western Michigan University USA, (2004 -2008)
- Member of the 7th Ugandan Parliament (2001-2006)
- Lecturer Makerere University School of Education, Department of Science and Technical Education, Kampala, Uganda, (1994 – 2001)
- Lecturer School of Business Studies Nakawa, Kampala , Uganda, (1993 – 1994)

PROFFESIONAL EXPEREINCE AND MEMBERSHIP TO ASSOCIATIONS

- Member of Church of Uganda Provincial Kingdom Development Organ (KIDO)- 2017
- Member of College of Health Science , School of Biomedical Science Higher Degree and Ethics Committee 2016 to date
- Board Member of Windle Trust, Uganda-2016
- Member of Land Owner's Association (ULOA) and facilitator Northern Region – 2010
- Founder Member of Northern Uganda Customary Land Association (NUCLA) – 2010
- Member of NARST (National Association for Research In Science Teaching) 2005 to date
- Chairperson, Parliamentary Committee on Defense and Internal Affairs (2002-2005), Uganda
- Coordinator, Females Education in Math and Science in Africa (FEMSA) 1999-2001
- Executive Member of Forum for African Women Educationalist (FAWE) Ugandan Chapter, 1998 – 2000

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- Founder Chairperson for Northern Uganda Girls Education Network (NUGEN). Main goal is to provide educational opportunities for War-traumatized girls and boys from Northern Uganda. Website: www.nugenetwork.org
- Founder and Proprietor of Nebbi Standard Academy- College in Uganda. This is a private secondary high school whose goal is to provide second-chance education to War and AIDS orphans from Northern Uganda
- Founder of the “Global Bazaar” a retail store in Kalamazoo Michigan that sells African Art and Artifacts to raise money to support education in War-torn Northern Uganda.
- Founder of “ Prayer Clinic International” A Faith-Based Non-Profit Organization in Kalamazoo Michigan, USA
- Founder Member of the Anglican Pastors’ Wives Association.
- Managing Director of “Nile Tropical Industries Uganda Limited”. A Cottage industry that is helping the local community to produce “Mango Juice” using simple technology.
- Managing Director of the “National Theater, African Arts and Crafts Shop N0.3 2.
- Member of Ad hoc committee of GAB (Gender Advisory Board) Uganda Chapter. GAB was established in 1995 to provide advice to United Nation Commission on Science and Technology for Development (UNCSTD)
- National Facilitator, LIFE SKILLS EDUCATION and a member of the steering Committee of **SARA** Communication Initiative (SCI)
- Vice President of the Association of Ugandan-German Alumni (AUGA)
- Vice President of University of Dar-es Salaam Old Students Association

CONFERENCES ATTENDED AND PAPER PRESENTATIONS

- The High-level conference on application of STI in Agriculture, Speke Resort Hotel Munyonyo, Kampala, Uganda, 26th - 29th September 2017.
- Annual Research and Ethics Conference , 5th -7th July, 2016 , Serena Hotel, Uganda
- Panelist at the Association of University Women Conference, Battle Creek 2014
- Conference Co-Chair 2nd International Business, Education and Technology Development and Investment Conference and Expo 2013, Hilton Garden Inn, Chicago May, 26th -31st , 2013.
- Conference Chair at the International Business Investment Conference, Amyway Grand Plaza, Michigan April 24th to 30th 2012
- Delegate at the **National Land Conference** at Hotel Africana, Kampala Uganda May 25th – 28th, 2010

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- Facilitator for Northern Uganda Region at the **Uganda Land Owners Association (ULOA)**, Serena Hotel, Kampala Uganda, 26th March 2010
- Presented a keynote address on “**Trends and Implications of Poor Education in Northern and Eastern Uganda (PRDP region)—A Human resource development approach**” at the Regional Summit on Education in Northern and Eastern Uganda under PRDP framework , at St Monica’s Vocational Center, Gulu, 19th -21st June 2008
- Presented a paper on "**Education Policy for conflict and post-conflict societies**" at the 6th CIMPAD (Consortium for International Management Policy Development) International Conference in Kampala Uganda from 19th – 22nd June 2007
- Presented a paper on “**Hope for the Hopeless in War-ravaged Northern Uganda**” at Grand Valley State University, October 9th 2008.
- Presented a paper on behalf of NUGEN (Northern Uganda Education Network) on "**Post Conflict Education for Girls in Northern Uganda**" at UNAA (Uganda North America Association) Convention, 3-5 September, 2006
- Presented a paper on “Trade opportunity under the African Growth Opportunity Act-AGOA”, at Governor State University Illinois on June 30th 2006
- Co-presented a paper with Dr. Mary Clark from Governor State University on “**A critical analysis of Affirmative Action in Uganda**” at the 10th annual Joint Fellows Conference, Co-Hosted by University of Illinois at Chicago, Wyndham Lisle Hotel, November 2-5, 2006
- Enhancing and Sustaining the Participation of Girls and Women in Science, Mathematics and Technology through Life Skills Education. A paper submitted to 9th Gender and Science and Technology (GASAT) International Conference, Accra Ghana.

SEMINARS AND WORKSHOP ATTENDED

- A Joint Review for the study: Open –Label, Clinical Trial: Remdesivir (GS-5734); Monitored Emergency use for Ebola Virus Disease organized by Uganda National Council for Science and Technology (UNCST) on 5th October 2018 at Fairway Hotel, Kampala Uganda.
- Human Subject Protection Course, organized by Uganda National Council for Science and Technology (UNCST) 10-12th September 2018, at MUJHU, Mulago Uganda
- Menstrual Hygiene Management workshop, 20th -22th September 2017, Rider Hotel , Seeta Uganda
- Great Lakes Regional University Workshop, 13th January, 2017 Kati Kati, Kampala Uganda
- Participatory GIS & E-Learning Workshop, 25th to 29th July 2016, Jinja, Uganda
- Participatory GIS & E-Learning" Workshop, 14th to 18th March 2016, Jinja, Uganda
- Presenter at the Knowledge Sharing for integrated Watershed Management and Water Security, November 30th to December 4th 2015, Mbale Resort Hotel, Uganda.

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- Participatory GIS & E-Learning" workshop, 2nd to 6th November 2015, Kimunye (Mt. Kenya), Kenya
- Participatory GIS & E-Learning" workshop, July 7th to 19th 2015, Freie Universität Berlin, Germany
- Presenter at the Knowledge Sharing Workshop on Integrated Watershed Management at Mbale Resort Hotel, 4th -8th May 2015, Uganda
- Participant at the Uganda Land Owners Association (ULOAA), Northern Region Workshop at Pacific Hotel, Lira 4th May 2010
- Participants at the Workshop on Science Technology and Innovation Status Report 2007/2008, Hotel Africana, Kampala, 20th May, 2010
- “Pathway to PhD” organized by Alliance for Graduate Education and the Professoriate (AGEP) program, November 15th 2007, Michigan State University.
- A Ph.D. proposal presentation on “ Modes of Reasoning in Physics Problem Solving in the context of Basic Geometric Optics” by Adriana Undreiu on Friday, November 30th 2007
- A presentation by Deborah Bryant, an Earth Science Instructor at KVCC on “Science in a Cereal Box” at the WMU Middle School Science Teachers (MSST) seminar on Thursday, November 9th 2007
- “Practical Strategy for writing a Dissertation” by Dr. Dorothy Duff Brown from University of California, Berkeley, September 18, 2006 at Bernhard Centre, WMU
- “Managing your Citation with REFWORKS”, conducted by Michele and Barbara J. Cockrell, October 27, 2006, Waldo Library, WMU
- “Habits of Mindlessness? Schooling and the Preparation of Teachers to Teach Differently” by Dr. Joanne K. Olson, November 15th 2006 MISE
- Ph.D. proposal presentation on “A study to determine the Impact of the Michigan Environmental Education Curriculum Support Program on Students and Teachers by Danielle Maurer, September 22nd 2006
- Doctoral Defense on “Analyzing the effect of Inquiry-based instruction on the learning of atmospheric science among pre-service teachers’ education students” by Robert Ruhf on November, 2006 WMU
- Master’s Thesis defense on “The Effects of Pedagogical Reform upon a Chemistry Instructor’s views of Teaching and learning” presented by Uric C Geer on November, 2006 WMU.

SYMPOSIUM ATTENDED/SPECIAL MEETINGS

- Ministry of Trade, industry and Cooperatives, Annual Sector Review Meeting, Hotel Africana 26th October 2017
- A dialogue between the Jazz for Justice Project, the University of Tennessee and Northern Uganda Girls Education Network on “ **Education and Trauma in Northern Uganda**”, 14th October 2008

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- Facilitated a Human Rights Seminar on “**Child Soldier and Children Rights to Education**” at Kalamazoo College on November 17th 2008
- Presented a paper on “**Educational Apartheid in Uganda**”, at University of Tennessee, Knoxville Tennessee, November 16th 2008
- Represented the Northern Uganda Education Network (NUGEN) at a radio talk show at the University of Tennessee, Media and Communication Department on November 1 2007
- Participated in a panel discussion on “**Assessing the Humanitarian Crisis in Post conflict Northern Uganda**”. The panelists included Dr. Joseph Isanga from Detroit, Kathy Nicole from Atlanta, Prof. Rosalind Hackett from University of Tennessee November 2nd 2007
- Presented a brief talk about, “**The plight of children of Northern Uganda**” at the JAZZ for JUSTICE concert at Knoxville Tennessee November 2nd 2007
- Organized a meeting between the members of the National Forum for Black Public Administrators and the CIMPAD delegated with the President of Uganda H.E Yoweri Kaguta Museveni, Kampala Uganda, June 2006 (photo available on MISE website).
- Symposium on "**International Trade Initiatives between Africa and South Suburbs**" at Governor State University, Illinois, June 30, 2006
- Panel discussion on "**The Education of Girls in the Developing World**" on September 26, 2006, at Wayne State University. Sponsored by the United States Mission to the United Nations and moderated by Gershem Bolton, the wife to the former US Ambassador to the United Nation.

RESEARCH EXPERIENCE

2018: Spatial Mapping and Profiling of Persons with Albinism in Eastern Uganda (On going)

2017: Development of Sunscreens for People with Albinism using local oils and plant extracts (on going)

2017: Co-PI, Baseline Profiling and tracking of educational progress of Private Schools supported by Opportunity Bank using the P2E (Pathway to Excellence) External Assessment Tool, funded by Opportunity International and UKaid (New).

2016: Co-PI, Evaluating the effectiveness of Speed School Program in the Districts of Gulu, Amuru and Nwoya funded by Geneva Global (On going).

2016: National Menstrual Hygiene Management (HHM) Manual for Teachers and other stakeholders, funded by Plan International and the Ministry of Education and Sports.

2016: Shea Butter Processing and Products Development (Lotions, Creams, Jelly, Margarine, soaps and detergents)

2016: Spatial distribution of government aided school and burden of out-of-school children in selected districts in Northern Uganda (Co-PI) funded by Plan International and Ministry of Education and Sport.

2015: Ethno-botanical Survey of Aromatic and Medicinal Plants in Nebbi District (on going)

2015: Natural Mosquito Repellant Cream: Analysis of the effectiveness of Essential Oils and Seed Oils in the prevention and control of Malaria (On going)

2015: Traditional Sun Drying of Fruits: Jackfruits, Mangoes, Sweet Bananas and Pineapples (On going)

2015: Indigenous African Soap making using wood ash (Potash) and Magadi (local salt): Shea butter and Palm oil (On going)

2009: **Science Education Policy for Emergency, Conflict and Post-conflict situation:**
A Critical analysis of Science Education Program in Uganda (PhD, Dissertation)

1998: Effect of Calcium and Ethylene on the ripening of Tomato fruits (*Lycopersion esculentum.L*) in storage

1997: Baseline Study on the Level of Life Skills of Secondary Students in Uganda. (UNICEF)

1992: **The Effect of Family life Education on the number of dropouts due to pregnancy in Dar-es – Salaam**

YOUTH AND WOMEN ENTERPRENEURSHIP AND PRODUCT DEVELOPMENT TRAINING

1. Scripture Union of Uganda, Arua Regional Office

Trained a total of 50 youth and women in making, Bathing Soap, Washing Soap, Bleach, Shampoo, Hand/Body wash, liquid Soap, Jelly, Candle and Chalk on 21st to 22nd September 2018 at Scripture Union Center.

2. Can dag Nyeko and Rwoth Konya United, Otuke Northern Uganda

We trained a total of 58 men and women from two groups above In making Sheabutter products like Soap, Lotion, Creams and jelly on 28th April 2018. Training was organized by Community Hope Foundation, Uganda.

3. Katanga Women Group, Kampala

Trained a group of 40 women and youth in Katanga Slum in Wandgeya on 25th August 2017 sponsored by Mama Tendo Foundation and Challenge Africa

4. St. Luke Chapel Mulago, Kampala

Trained some members of the church on 26th August 2017 on how to make bathing soap, shampoo and Hand wash

5. African Woman You Can, Mukono

Trained a group of 32 women for two days (8th -9th February 2017) on how to make 20 products

6. Gulu Divine Connection Group

Trained group of 16 youth in Gulu on 16th for two days and developed 10 products. They have started with making soap and Jelly. They recently received a Research Grant from USAID

7. Arua Church and Child Development Group

Furthermore, I trained a group of 21 men and women in product development training in Arua during the month of January 2016. They are currently making soap and instant porridge (cerelac) for sale.

8. Nebbi Women and Youth group

In 2015 I trained 25 men and women in Nebbi town to develop 10 products. The group is now developing different brands of soap for sale.

9. Paidha Divine Connection group

In January 2016 I trained another set of young women and men in Paidha, Zombo District. During the training in Paidha, we concentrated on opening the mind of the participants to different products within their means to develop. The group decided to make soap since it is the easiest product to develop.

10. Kampala Church Groups

- In September 2015, I trained a group of youth and women from St, Philips Church of Uganda, Kyebando in soap making.
- In March 2016, I trained the Mother's Union and Christian Union Members of St. Luke's Chapel Mulago Hospital.

11. Bukalasa Farm School, Wobulenzi

Trained 54 members of the Entrepreneurship Club at Bukalasa Farm School in making Soap, Body Jelly, Candles, Cerelac and tomato sauce.

12. Mbuye Farm School, Rakai

Trained student 60 students from Mbuye Farm School in making Soap, Body Jelly, Candles, Cerelac and tomato sauce. They were also trained in extraction of oil from ovacado

UNPUBLISHED RESEARCH

1. **TEN DAYS: An American Visits a Secondary School in Northern Uganda** by Robert J. Ruhf and Betty P. Udongo 2018 (Unpublished).
2. Udongo Betty (2008). *Science Education Policy for Emergency, Conflict and Post-conflict situation: A Critical analysis of Science Education Program in Uganda*. Western Michigan University, USA (Unpublished PhD, Dissertation).
3. Udongo Betty (2008). *Educational Pipeline in Uganda: Implications of lack of access to Higher Education by the educationally disadvantaged and marginalized group on National Development*. Association for the Advancement of Higher Education and Development (AHEAD), Kampala Uganda.
4. Udongo Betty Pacutho (2001). *Local Games that enhance the Teaching and Learning of Science and Mathematics Concepts*. (Unpublished).
5. Udongo Betty Pacutho (1998). **The effect of Calcium and Ethylene on the ripening of Tomato fruits (*Lycopersion esculentum.L*) in storage**. (Unpublished M.Sc Thesis).
6. Udongo Betty (1992). **The effect of Family life Education on the number of dropouts due to pregnancy in Dar-es-Salaam**. (Unpublished B.Ed independent study).
7. Udongo Betty Pacutho (1996). **Second Chance Education in Science and Technology for Teenage Mothers**. A paper presented at the 8th Gender and Science and Technology (GASAT) International Conference, Ahmedabad, India.

PUBLICATIONS

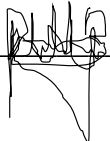
Book Chapter: “A Critical analysis of Affirmative Action in Uganda” in Democracy and Culture: An African Perspective by **Lioba Moshi and Abdulahi A. Osman (Editors)** 2008 by Adonis& Abbey Publishers

AWARDS

- **Presidential Jubilee Award, 2016**
- **Pearl of Africa” Award in Leadership and Community Development, May 2013**
- **Presidential Nalubale (L.Victoria) Medal of Honor Award, March 8th 2012, Uganda**
- **“Model of Excellence” from Northern Uganda, 1st Sara Ntiro Lecture and Award Ceremony, 2000**
- **Department Graduate Research and Creative Scholar Award, Western Michigan University, 2007-2008**

CONSULTANCY

1. Albinism Umbrella, Development of the Sunscreen for Albinism and Research on Spatial Mapping & Profiling of Persons with Albinism in Uganda, 2017 to date.
2. The Pincer Training and Research institute: Senior Research Scientist for Product Development 2016 to date.
3. Ministry of Education and Sports- National Menstrual Hygiene Management Training Manual, 2016.
4. Divine Connection Group (CBO) Gulu, Rand Project Public Health, 2016 to date.
5. NEBSTAR. Inc -Thesis and Dissertation Completion Support Services (Academic Coach, USA) 2014.
6. VADIUM Technologies, USA - “Simple Unbreakable Encryption” for Digital Data Security, 2008.
7. AHEAD (Advancement of Higher Education and Development) The Uganda Education Pipeline Project” 2008.
8. UNOPHONE Uganda/Norway- “The Village Phone Project” 2002.

Sign  Date 18-11-2018