

ANYATONWU OBINNA PRINCEWILL

EDUCATIONAL QUALIFICATIONS

Umeå University

Umeå, Sweden

Master of Science, Epidemiology specialization (60 ECTS)

July, 2021

- Research Title: *“Rural-urban disparities in postpartum contraceptive use among women in Nigeria: A Blinder-Oaxaca decomposition analysis”*
Modules: Advanced Biostatistics and Epidemiology, Advanced Qualitative Methods, Social Epidemiology, Equity and Health, Global Health, Evidence-Based Public Health, Planning and Management in Healthcare, Evaluation in Public Health, Master’s thesis, Second year.

Umeå University

Umeå, Sweden

Master of Science, Public Health (60 ECTS)

July, 2020

- Research Title: *“Predictors of postpartum contraceptive use among fecund women in Nigeria: An Analysis of 2018 Nigerian Demographic Health Survey Data”*
Modules: Global Public Health, Epidemiology, Biostatistics, Qualitative Methodology for Public Health, Social pathways in Global Health and Health Promotion, Health Systems: Organization and Financing, Health Economic Evaluation Methods, Master’s thesis, First year.

Abia State University

Abia State, Nigeria

Doctor of Optometry

September, 2016

- Research Title: *“Effect of Caffeine on Contrast Sensitivity among young adults”*
Modules: Epidemiology, Public Health, Health and Human Behavior Anatomy, Ocular Anatomy, Physiology, Ethics in Research, Geriatrics, Neuro-anatomy, Ocular Pharmacology Therapeutics and Toxicology, Ocular Physiology.

RESEARCH INTEREST

- Epidemiology/public health research
- Social determinants of Health /Eye care
- Inequalities and inequities in health
- Maternal and Child Health

PUBLIC HEALTH EXPERIENCE

Program Manager | Patient.NG | August 2024 – January 2025

- Established key performance indicators for respective teams such as community managers and evaluate program effectiveness to inform strategic decisions and optimize advocacy initiatives.
- Gathered insights on healthcare system challenges to guide advocacy priorities, policy recommendations and inform strategic decisions
- Scheduled, coordinated, and presided over meetings with strategic partners, and stakeholders and developed reports for management.
- Build and maintain strong relationships with healthcare providers, NGOs, and other stakeholders.
- Develop and execute strategies for growth, advocacy, and partnership-building, utilizing project planning and evaluation skills to ensure effective outcomes.
- Recruit, train, and manage patient advocates to strengthen community engagement

- Design and launch advocacy programs aimed at addressing patient needs

Global Health Advocacy and Communication Intern | International Federation of Psoriatic Disease Association
September 2022 – June 2023

- Led and successfully managed an educational project for CHEWs and Volunteer to increase Psoriatic disease awareness and sensitization in developing context
- Led and contributed immensely to the success of the cross-promotion of IFPA's scientific conference
- Contributed to ongoing scientific projects such as All the Colors We Are including questionnaire/survey development, interviews, etc.
- Effectively communicated complex scientific research to a broader audience by summarizing articles in a non-technical manner
- Gained pragmatic skills in the use of digital technology tools such as Canva, and Adobe Xpress, successfully creating key messages for Psoriatic disease advocacy and campaigns
- Established and maintained productive relationships with non-governmental organizations, patient organizations, and partners, which resulted in increased collaborative opportunities and greater awareness of Psoriatic diseases
- By engaging with various stakeholders, I significantly contributed to the success of the World Psoriasis Day event, which resulted in a 30% increase in public awareness and understanding of the mental health effects of Psoriatic disease

Graduate Trainee in Public Health and Development, Part-time | World Federation of Public Health Association
June 2022 – October 2022

- Actively involved in ongoing research projects within the Oral Health Group e.g., social determinants & Oral Health, chronic diseases & oral health
- Contributed to impactful research initiatives within the Oral Health Group, focusing on social determinants of health, chronic diseases, and their intersection with oral health.
- Conducted thorough literature reviews, identifying key insights to advance understanding in these areas.
- Designed and delivered engaging PowerPoint presentations on critical topics, effectively communicating findings to diverse audiences.
- Authored concise and accessible scientific summaries, ensuring research outcomes were understandable and actionable.
- Provided reliable support for additional research and administrative tasks, where necessary, contributing to project success.

RESEARCH EXPERIENCES

Research Development Lead, Part-time | ORCHID Foundation for Neurodevelopmental Disabilities | January 2024 – Present

- Leading research initiatives aimed at fostering acceptance, inclusion, and equitable opportunities for children with neurodevelopmental disabilities.
- Developing strategies and evidence-based approaches to enhance their quality of life and long-term outcomes.
- Promoting collaboration among stakeholders to ensure impactful interventions and inclusive policies.
- Advocating for accessible resources and support systems tailored to the unique needs of children with neurodevelopmental disabilities.

Graduate Research Assistant, HIV Intervention Program, | Save the Marginalized Uganda | March 2022 – December 2023

| Part-Time

- Developed a working document with the program coordinator for the HIV project – Understanding the link between HIV knowledge, barriers and loss to follow up.
- Drafted relevant literature
- Participated in the design of research methodology (qualitative) and data collection phase with the principal Investigator
- Involved with the development of the interview guide, and sampling methods
- Contributed to the analysis of data collected using thematic methods
- Participated in progressive meetings and writing of reports

Research student, Department of Epidemiology, and Global Health | Umea University | March 2020 – July 2021

- Examined the rural-urban disparities among postpartum women in Nigeria as well as the predictors of postpartum contraceptive among fecund women in Nigeria.
- Researched relevant literature to have an in-depth understanding of the research question on postpartum contraceptive use in Nigeria
- Applied theoretical frameworks such as Health Belief Model, Material pathway, behavior-cultural and psychosocial theories in the research studies
- Analyzed the Demographic Health Survey Dataset (DHS) using the Blinder-Oaxaca decomposition and logistic regression methods.
- Summarized and identified the factors contributing to the rural to urban disparities in postpartum contraceptive use in Nigeria
- Wrote scientific report & prepared article for publication
- Submitted and published in the International Journal for Equity in Health

Research Assistant| Eye Center, Department of Optometry, Abia State University |September 2015 – July 2016

- Designed an empirical investigation into the effect of caffeine ingestion on contrast sensitivity among young adults in Abia State University
- Sort for and attained ethical approval from the ethical committee of Abia State University
- Conducted eye health screening using ophthalmic equipment to ensure research participants had no eye abnormally
- Drafted and administered consent form/letter prior recruiting research participants
- Recruited participants for this study
- Researched relevant literature on how the intake of caffeine affects the eye contrast sensitivity especially among young adults who are emmetropic
- Collected and analyzed the data from the research participants
- Wrote my report and findings from the study, and presented to the thesis committee

CLINICAL EXPERIENCE

Principal Optometrist, Cottage Hospital, Enugu, Nigeria | June 2019 -- August 2019

- Examined patients' vision and provided diagnosis
- Analyzed test results to develop proper eye care treatment plans. eye care treatment plans.
- Prescribed corrective lenses and Contact lens
- Examined patients for eye disease, treated, managed, and referred to ophthalmologists and allied health professionals when paramount
- Prescribed drugs as needed for treatment of ocular conditions experienced by patients

Clinical Optometrist | General Hospital Twon -- Brass, Bayelsa State, Nigeria | June 2018 -- March 2019

- Mentored and supervised a team of three eye care professionals and successfully conducted numerous medical outreaches and health promotion programs, reaching an impressive number of individuals within the rural community
- Achieved a substantial 70% increase in patient base and revenue for the healthcare establishment
- Performed thorough case histories for over 500 patients and evaluated their vision using a variety of ophthalmic tools
- Reviewed test outcomes and developed treatment regimens for patients
- Prescribed corrective lenses and contact lenses, ocular therapeutics, when necessary, I offered my patients expert advice
- Referred clients to other medical specialists for assistance with various health-related difficulties where necessary

Clinical Optometrist, February 2017 -- March 2018 | Central Ophthalmic Clinic, Akwa Ibom, Nigeria.

- Conducted detailed case histories and comprehensive eye examinations, diagnosing and managing diverse eye conditions.
- Successfully treated various ocular diseases and prescribed corrective glasses and appropriate therapeutics.
- Referred over 80 patients to specialists, ensuring continuity of care, and provided professional counselling to 90% of patients, enhancing patient satisfaction.
- Maintained accurate inventory records of ocular products, optimizing facility efficiency and resource management.

OTHER PROFESSIONAL ENGAGEMENTS & CONTRIBUTIONS

African of Our Dream Initiative (AODI) Mentorship Program

- Mentoring young, enthusiastic students poised to address the public health challenges we experience in Africa.
- Driving change via guidance, sharing opportunities, knowledge and insights that would help them hone their skills and pursue further training at reputable universities around the world.

Caribbean Medical Journal

- Assistant Editor

International Conference on Family Planning

- Abstract Reviewer

Peer Reviewer

- Contraception and Reproductive Medicine
- BMC Public Health
- BMC Women's Health
- Journal of Epidemiology and Global Health
- Journal of Epidemiology Society of Nigeria
- Caribbean Medical Journal (CMJ)
- The African Journal of Health, Safety and Environment (AJHSE)
- Discover Social Science and Health Journal
- Discover Public Health

Family of Optometry Mentors – Bayelsa State Nigeria

- Mentored interns on the use of ophthalmic equipment for comprehensive eye care examinations
- Coordinated training sessions and hands on experience on orthoptics

- Held seminars and presentations on the recent trends in eye care practice and guidelines on management of ocular diseases

PROFESSIONAL MEMBERSHIP

- Nigerian Optometric Association (NOA)
- International Keratoconus Academy (IKA)
- Family of Optometry Mentors (FOM)
- Young African Leaders Initiative (YALI)
- Nigerian Institute of Management (NIM)

PUBLICATIONS

- Ogbonna GO, Chikhoza M, Kwarteng MA, Ezinne EN, Ehigbor R, **Anyatonwu OP** et al. Correction: Epidemiology of oculo-orbital tumours in Malawian children: a 10-year review of cases from tertiary hospitals. *BMC Ophthalmol* 25, 305 (2025). <https://doi.org/10.1186/s12886-025-04117-5>
- Ogbonna GO, Chikhoza M, Kwarteng MA, Ezinne EN, Ehigbor R, **Anyatonwu OP** et al. Epidemiology of oculo-orbital tumours in Malawian children: a 10-year review of cases from tertiary hospitals. *BMC Ophthalmol* 25, 245 (2025). <https://doi.org/10.1186/s12886-025-04091-y>
- Alghamdi A, Zerie FM, Kwarteng MA, Ezinne EN, Ehigbor R, **Anyatonwu OP**. The effect of smoking on dry eye disease and corneal thickness in the Saudi population: a cross-sectional study. *Discov Public Health* 22, 168 (2025). <https://doi.org/10.1186/s12982-025-00532-7>
- Kamalu AO and **Anyatonwu OP** (2025). Advancing Equity and Accessibility in Eyecare. *Public Health Rev.* 46:1606894. Doi 10.2289/phrs.2025.1606894
- Egbusim VC, Duru CC, **Anyatonwu OP**, Udo UA, Nsonwu MC, Kamalu AO, et al. (2024). Effect of Age and Gender on Cup-to-Disc ratio in a Normotensive Population. *African Vision and Eye Health Journal.* 83(1) <https://doi.org/10.4102/aveh.v83i1.880>
- Kamalu AO, Ekeoba A, Uzor E, Duru CC, **Anyatonwu OP**, Adiele O, et al. (2024) Mitigating the Prevalence of Diabetic Retinopathy in the United States: Utilization of the Chronic Care Model as a Public Health Framework. *Open Journal of Ophthalmology*, 14, 103-116. doi: [10.4236/ojoph.2024.142010](https://doi.org/10.4236/ojoph.2024.142010).
- Duru Christian, **Anyatonwu OP**, Agu Godwin and Kamalu Anthony. Optometry Insight. Prexheem Excellent, 2024. <https://a.co/d/95lgQls>
- Ezepue CO, **Anyatonwu OP**, Duru CC, Odini F, Nwachukwu NZ, Onoh C, et al. (2024). Effects of music on the preoperative and intraoperative anxiety through the assessment of pupil size and vital signs (blood pressure, respiratory, and pulse rates) among cataract surgery patients at UNTH-Enugu. *Front. Ophthalmol.* 3:1340752. doi: 10.3389/fopht.2023.134075 <https://www.frontiersin.org/articles/10.3389/fopht.2023.1340752/abstract>
- **Anyatonwu OP**, Nwoku KA, Jonsson H and Nematovu F (2023) The determinants of postpartum contraceptive use in Nigeria. *Front. Glob. Women's Health* 4:1284614. doi: 10.3389/fgwh.2023.1284614
- Ezepue CO, **Anyatonwu OP**, Duru CC, Odini F, Nwachukwu NZ, Onoh C, et al. (2023) Effect of music on preoperative anxiety using the Hamilton State-Trait Anxiety Inventory (STAI) in patients undergoing cataract surgery in the University of Nigeria Teaching Hospital, Ituku Ozalla. *BMJ Open Ophthalmology* 0: e001498. <https://doi.org/10.1136/bmjophth-2023-001498>
- **Anyatonwu OP**, and San Sebastián, M (2022). Rural-urban disparities in postpartum contraceptive use among women in Nigeria: A Blinder-Oaxaca decomposition analysis. *Int J Equity Health* 21, 71 (2022). <https://doi.org/10.1186/s12939-022-01674-9>
- **Anyatonwu OP**, Ihesiulor CG, and Udo UA. (2020). Effect of Caffeine on Contrast Sensitivity among young adults

of Abia State University. *Ophthalmology Research: An International Journal*, 12(3), 21-28.

<https://doi.org/10.9734/or/2020/v12i330149>

- Bright UC, and **Anyatonwu OP** (2020). Ocular Morbidities Associated with Workers in Brewing industries. *Ophthalmology Research: An International Journal*, 13(2), 1–6.
<https://doi.org/10.9734/or/2020/v13i230161>
- **Anyatonwu OP** (2020). Postpartum Contraceptive Adoption and its Predicting Factors among Fecund Women: An Analysis of 2018 Nigerian Demographic Health Survey Data (Dissertation). Retrieved from
<https://urn.kb.se/resolve?urn=urn:nbn:se:umu:diva-176515>

Papers accepted for publications

- Tobacco use in Nigeria: Exploring the regional differences and determinants (Discover public health journal)
- Challenges and Practices in the Management of Childhood Myopia Progression Among Nigerian Optometrists - A Cross-sectional National Survey

Manuscripts in Preparation

- Rural and Urban differences in smoking behaviour among men in Nigeria: A decomposition analysis of the DHS
- Exploring Determinants of Job Satisfaction Among Practicing Optometrists in Nigeria
- Patterns of Postpartum Contraceptive Use Among Women: Differentiating by Disability Status

Research Projects

- Exploring the Feasibility and Acceptance of Crowdfunding for Medical Expenses in Nigeria: A Market Research Analysis
- Patient.ng and the Future of Healthcare Funding: Synergies Between Crowdfunding, Advocacy, and Health Insurance

CONFERENCE ATTENDED

14-16 December 2021 First International Conference on Public Health in Africa (CPHIA, 2021)

- I attended the First International Conference on Public Health in Africa. This conference was geared towards creating a unique platform where African researchers, policymakers and stakeholders can share perspectives and research findings in public health while ushering in a new era of strengthened scientific collaboration and innovation across the continent.
- WHY THE EYE: 12th Annual Prevent Blindness Focus on Eye Health Summit | July, 2023

CERTIFICATIONS / TRAININGS

- Certified Peer Reviewer Course (11 modules), November 2024 | **Research Academy, Elsevier**
- Prevention of Type 2 Diabetes certificate training, November 2024 | **International Diabetes Federation (IDF)**
- Diabetes Retinopathy Certificate training, November 2024 | **International Diabetes Federation (IDF)**
- Role of Diabetic Educator training certificate, November 2024 | **International Diabetes Federation (IDF)**
- Fundamentals of Waterfall Project Management, June 2022 | **Project Management Institute (PMI)**
- Fundamentals of Agile Project Management, June 2022 | **Project Management Institute (PMI)**
- Prepare Data for Exploration, June 2022 | **Google data analytics program, Coursera**
- Ask Questions to Make Data Drive Decisions, March 2022 | **Google data analytics program, Coursera**
- Foundations: Data, Data, everywhere, March 2022 | **Google data analytics program, Coursera**
- ENERGYH – Energizing Global Health Innovation and Entrepreneurship (Sanofi Espoir Foundation scholarship), July 2021 | **Barcelona Institute for Global Health, Spain**
- From a thesis to a Paper/ Peer Reviewing | Summer Program, August 2020 | **Umea University, Sweden**
- Proficiency Training in Management, 2019 | **Nigerian Institute of Management (Chartered) (NIM)**
- Proficiency Certificate in Project Management, 2019 | **Nigerian Institute of Management (Chartered) (NIM)**
- Sustainability Acceleration Project (ASAP) Leadership Training Program | 2019

LEADERSHIP & VOLUNTEERING EXPERIENCE

- Research Associate, Life Science Nigeria | April 2024 – Present
- Med hydrogel Inc | June 2021 – October 2021
- Program Council Member, Epidemiology and Global Health Department Umeå University | October 2020 – June 2021
Proactively acted as a liaison between students and academic leadership, engaging with program coordinators and the director of studies to address critical academic concerns. Advocated for solutions that enhanced the learning experience, strengthened support systems, and ensured alignment with student needs.
- Student Council Member, Epidemiology and Global Health Department Umeå University | October 2020 – June 2021
- Amnesty International Student Group, Umea Sweden | November 2019 – June 2020
- National Youth Service Community Development Service | Peer Educator Trainee President | April 2018 – March 2019:
Demonstrated exceptional leadership by spearheading health promotion programs, campaigns, and medical outreaches targeting underserved communities in Bayelsa. Coordinated multidisciplinary teams to improve healthcare access and foster community trust in available healthcare services. Successfully mobilized resources, implemented impactful initiatives, and empowered community members with essential health knowledge, leaving a lasting positive impact.
- German Leprosy and Tuberculosis Association (GLRA) | July 2018 – October 2018:
- Formidable ENC Healthcare Team | March 2017
- Levitical Eye health Foundation | March 2017 – October 2017

AWARDS

- **Umea University Scholarship Award | 2019 – 2021**
I received the Umea University scholarship, a competitive award granted to academically outstanding non-EU/EEA and Swiss citizens, covering tuition fees for the full duration of my master's program.
- **Sanofi Espoir Foundation Scholarship | 2021**
I was awarded the Sanofi Espoir Foundation scholarship for a summer program - Energizing Global Health Innovation and Entrepreneurship (ENERGHY) at Barcelona Institute for Global Health (ISGLOBAL). A program designed to equip participants from low- and middle-income countries with tools to innovate and democratize global health solutions.
- **Taylor & Francis Scholarship | 2020**
I was honored with the Taylor & Francis Scholarship for my outstanding first-year master's thesis, funding a summer course "*From a Thesis to a Paper*", that provided expertise in academic publishing and resulted in publication of my thesis in a peer-reviewed international journal.
- **Uche Ogah Scholarship Award | 2013/2014 – 2016**
I received the Uche Ogah scholarship, a prestigious, fully funded award covering 100% of tuition and living expenses for the entire undergraduate program, granted to exceptional students at Nigerian universities.

TECHNICAL SKILLS

- Computer skills: Proficient in Microsoft office suite (e.g. word, excel, power point, Microsoft project)
- Communication skills: Strong interpersonal and organizational skills, gained through my research presentations, leadership experiences and clinical practice
- Excellent Report and manuscript writing skills – gained by conducting independent master's thesis, publishing

article on international peer-reviewed journal, and co-authoring research works

- Skilled in Data collection and presentation skills – using Epi-info; descriptive data analysis skills (crosstabulations, bar- charts, histograms, line curves, pie square)
- Advanced data analysis skills: chi-square test, t-test, ANOVA, linear regression, logistic regression, log- binomial regression, log-quasibinomial, log-Poisson regression, cox-regression, Survival analysis, decomposition analysis
- Excellent qualitative analysis skills: in-depth interview and focused group discussion; thematic analysis, and grounded theory
- Proficient in quantitative and qualitative data analysis software: R, STATA, SPSS, open Code software

REFERENCES

- Available upon request