

Dodie Arnold, PhD

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PROFESSIONAL SUMMARY

- **Evaluation & Quality Assurance:** 3 years of experience in monitoring evaluation, implementation science, operational research, and strategic planning for domestic and international public health programs (Ethiopia, Tanzania, and South Africa)
- **Global Health Consultant:** Areas of focus: *Strategic Planning *Maternal, Newborn, and Child Health, *Reproductive Health, *Family Planning, *Infectious Diseases, *Gender Equity and *Women's Empowerment
- **Maternal & Child Health Epidemiologist:** 7 years direct responsibility for the conceptualization, design, and conduct of epidemiologic studies- including the training and supervision of key staff and collaborators, several peer reviewed publications. **Research Focus:** nutrition and complications of pregnancy
- **Statistical Modeling:** 7 years of experience with SAS, SPSS, and STATA

FOREIGN LANGUAGE SKILLS

- **Spanish** - Fluency in reading, writing and speaking Spanish (Bachelor of Arts in Spanish)
- **Portuguese** - Conversational and reading
- **Amharic** (Language of Ethiopia) – Conversational

EDUCATION

Doctor of Philosophy, Epidemiology University of Washington, Seattle, WA	2013
Masters of Science, Public Health Meharry Medical College, Nashville, TN	2007
Doctor of Medicine Vanderbilt University School of Medicine, Nashville, TN <i>Withdrew after 2 years of study to pursue PhD course of studies</i>	<i>Withdrew</i>
Bachelor of Science, Life Sciences - Biology Bachelor of Arts, Foreign Languages - Spanish Xavier University of Louisiana, New Orleans, LA	2003

EVALUATION & RESEARCH EXPERIENCE

Pennington Biomedical Research Center/Louisiana State University – Baton Rouge, LA 2012 - Present
Research Associate

Evaluation Support & Leadership

- External Evaluator for the Louisiana Tobacco Control Program (LTCP)
- Southeast Representative for the Tobacco Evaluator's Network

Capacity Building & Technical Assistance (TA)

- Provide TA to the Tobacco Control Hospital Grantee's
- Provide grant writing support and mentorship
- Identify and outline procedures for new grant applications

Reporting

- Provide annual reports to CDC
- Create and distribute program reports for internal and external audiences

Global Health Consultant

2012-Present

Independent Consultant

RECENT PROJECTS

The Bill and Melinda Gates Foundation: Records for Life Design Competition

Summary: Prepared an entry for the Records for Life Design Competition. Designed and piloted an alternative child vaccine/health record that aimed to increase durability of the record, increase accuracy and interpretability of health data, facilitate the conversion to electronic records, and inform parents.

Mothers2Mothers (a South-African not-for-profit organization)

Summary: Analyzed data and wrote the report, "Assessing the feasibility and acceptability of including male peer mentors in the Mothers2Mothers Program Model for reducing mother-to-child and discordant couple transmission of HIV."

International Training and Education Center for Health (I-TECH) - Seattle, Ethiopia, & Tanzania 2011 - 2012
Global Health Consultant/Quality Improvement Advisor - Ethiopia & Tanzania Team

Evaluation Support & Leadership

- Prepare training materials and manual of operations for data collection
- Develop the protocol (including literature review, methods, tools development processes)
- Preparation and submission of CDC-NRD applications

Capacity Building & Technical Assistance

- Propose, identify, and develop appropriate trainings for M&E staff in Ethiopia
- Proposal for collaboration between Pre-service and data collection for operational research (OR)
- Develop a Standard Operating Procedure for Field Based Team reporting tools based on feedback from the pilot conducted by the Country Office

Reporting

- Completion of protocol writing and submission processes for key OR projects
- Entry and tracking of M&E plan into the Implementation Review and Management (IRM) System for Country Operating Plan (COP) 11
- COP 12 planning: including develop logic models for each program area and selection and revision of key indicators

University of Washington - Seattle, WA

2007 - 2011

NIH, Reproductive Pediatric and Perinatal Epidemiology Pre-doctoral Fellow

TOPICS: (1) Maternal vitamin D deficiency status in relation to maternal mood/anxiety disorders, gestational diabetes mellitus, preeclampsia, and preterm delivery (2) Maternal iron deficiency anemia and abruptio placentae

Leadership & Project Management

- Maternal and Children Health Nutrition (MCHN) clinical research project development: directly responsible for project conceptualization and design, proposal development/NIH style research proposal, and identification/recruitment of key staff and collaborators
- Supervision and management of research project staff, including regular project meetings and teleconferences

Grant Writing, Reports & Analyses

- Successfully identified and secured government and private sector funding for project
- Statistical analyses and cleaning of data using STATA
- Drafting, collaborative editing, and management of the submission and publication processes for all resulting manuscripts

Swedish Medical Center, Center for Perinatal Studies - Seattle, WA

2009 - 2011

Research Coordinator- The Migraine Study

Supervision & Management

- Supervised 2 staff members (recruitment/enrollment, patient interviews, data entry, and monitoring)
- Revised tracking system for efficiency purposes, resulting in 30% fewer "missed but eligible" participants
- Revised scheduling protocol, resulting in faster time to interview (average of 2 weeks faster)

Data Collection

- Interviewed over 500 patients regarding medical history and migraine management
- Weekly clinical chart pulls to identify eligible study participants
- Informed consent of patients and specimen collection

RCIRT Program - Seattle, WA

2008

University of Washington, Responsible Conduct of International Research Training Program

Training Topics:

- Coordinating multiple IRB approvals and disbursement of funds
- Engaging stakeholders and established partnerships for effective, mutually beneficial collaborations
- Promoting effective coordination, collaboration, communication with host country counterparts and stakeholders

- Disseminating research and program evaluation findings to key partners and organizations

United States Agency for International Development (USAID) - Washington, DC 2007
USAID Washington Office of Health- Africa Bureau, HIV/AIDS

Technical Assistance

- Successfully completed the process to secure Secret Level of Security Clearance
- Served as a representative for USAID's Orphans & Vulnerable Children Technical Working Group
- Revised the joint publications for the President's Emergency Plan for AIDS Relief (PEPFAR) and the President's Malaria Initiative

University of Washington/Addis Ababa University - Addis Ababa, Ethiopia 2006
Minority Health & Health Disparities International Research Training Fellow

Field Based Data Collection, Management, & Analysis

- Completed field epidemiological research on gender based violence affecting 1330 women
- Developed data management system, and completed data entry and cleaning using Epi-Info
- Analyzed data using SPSS statistical modeling program and published reports on findings

United States Environmental Protection Agency - Nashville, TN 2005 - 2007
Graduate Research Fellow

Grant Proposal & Project Management

- Successful grant proposal submission and management of funding award
- Served as Principal Investigator of an EPA funded web-based study on evacuation practices and health behaviors after Hurricane Katrina

Christian Brothers University/CEGEMPAC - Curitiba, Brazil 2005
Centro de Genética Molecular e Pesquisa do Câncer em Criança (CEGEMPAC)

Minority Health & Health Disparities International Research Training Fellow

- Participated in the development of a low cost alternative to detecting kidney tumors in children

STATISTICAL PROGRAMS & STATISTICAL MODELING TECHNIQUES

Statistical Programs

- **STATA** - Preferred program for statistical modeling
- **SAS & SPSS** - Formal training for statistical modeling using both programs

Statistical Modeling Techniques

- Including: logistic regression, multivariate regression, sensitivity analyses, mediation analyses, modification analyses (joint & independent effects), and survival analyses

OTHER PROFESSIONAL EXPERIENCE

Freelance Translation Specialist 2003 – Present
Independent Consultant

- Translated content to create the 2003 Spanish language version of The United Kingdom Turtle Code website, dedicated to the protection of sea turtles
- Research: conducted interviews and translations documenting the oral history of the Garifuna people in New Orleans, Louisiana
- Document translation: résumés, curriculum vitae, and research documents

Vanderbilt University - Nashville, TN 2004 - 2005
Department of Pediatrics Child Development Center

- Completed child development screenings in English and Spanish at the Cayce Family Clinic within the Cayce Housing Development
- Evaluated engagement level of preschool teachers of children with disabilities
- Facilitated interpersonal teacher consultations to capture and document effective techniques to encourage children with disabilities to interact with their peers and increase learning

- Vanderbilt University School of Medicine/Fisk University- Nashville, TN** **2004**
Instructor Fisk-Vanderbilt Minority Medical Education Program
- Taught case-study modules and anatomy lab to undergraduate students
 - Guided students through the process of systems review and differential diagnoses of patients
 - Presented lectures and conducted study sessions covering various rare and common diseases
- Vanderbilt University - Nashville, TN** **2003 - 2004**
Neurology Department, Vanderbilt Medical Center
- Recruited patients for international Prevention Regimen for Effectively avoiding Second Stroke (ProFESS), a Phase IV randomized double-blind clinical drug trial.
- United States Environmental Protection Agency - Atlanta, GA** **2002**
Undergraduate Research Fellow
- Coordinated programs for high school students interested in science and environment related careers
 - Emory University's Pediatric Environmental Health Specialty Unit meetings
 - Designed and developed children's environmental health displays about sun safety, indoor air quality, radon, ozone, and asthma
- United States Centers for Disease Control and Prevention (CDC) /Agency for Toxic Substances and Disease Registry (ATSDR) - Atlanta, GA** **2002**
Self-designed Internship
- Designed and developed summer internship program to explore the functions and types of career training available at the CDC & ATSDR
- Yale University- New Haven, CT** **2001**
Biological Summer Training Enrichment (BioSTEP)
- Pediatric gastroenterology research focused on inflammatory cytokines
 - Trained in molecular research techniques including western blotting
- Tulane University- New Orleans, LA** **2000**
Louisiana Alliance for Minority Participation (LAMP Program)
- Learned principles of biometry and applied concepts to a genetic environmental study of the shape evolution of the fish *Carpoides carpio*
- Xavier University of Louisiana- New Orleans, LA** **2000-2003**
US EPA Minority Academic Institution Undergraduate Fellow, Research Assistant
- Tested the genotoxic effects of a broad range of environmental pollutants such as heavy metals and aryl hydrocarbons on L1 retrotransposition
 - Practiced aseptic techniques in a hooded vent, and cell culturing
 - Cultured fungi in both liquid media and plates, and isolated colonies

FELLOWSHIPS & AWARDS

- Society for Pediatric and Perinatal Epidemiologic Research **2013**
Nominated, Student Prize Paper Award
- University of Washington, Doctoral Dissertation Small Grant Award **2010**
- Achievement Rewards for College Scientists (ARCS) Foundation Fellow **2007- 2010**
Micki & Bob Flowers Endowed Fellowship
- National Institutes of Health Pre-doctoral Fellow **2007- 2011**
Reproductive Pediatric and Perinatal Epidemiology Fellow
- United States Environmental Protection Agency - Graduate Fellowship **2006- 2007**
- United States Environmental Protection Agency - Undergraduate Fellowship **2001- 2003**

PROFESSIONAL PUBLICATIONS, REPORTS, & SPECIAL PROJECTS

- Arnold DL, McDougal S, Antoine T. Bill and Melinda Gates Foundation: Records for Life Design Competition.**
Summary: Designed and piloted an alternative child vaccine/health record that aimed to increase durability of the record, increase accuracy and interpretability of health data, facilitate the conversion to electronic records, and inform parents. October, 2013.

- Arnold DL**, Enquobahrie DA, Grote N, Vander Stoep A, Williams MA. Early pregnancy maternal vitamin D concentrations and risk of gestational diabetes mellitus. *Diabetes Research & Clinical Practice*. In review.
- Huang J, **Arnold DL**, Qiu C, Miller R, Williams MA, Enquobahrie DA. Association of Serum Vitamin D with Symptoms of Depression and Anxiety in Early Pregnancy. *Journal of Women's Health*. In review.
- Arnold DL**. Assessing the feasibility and acceptability of including male peer mentors in the Mothers2Mothers Program Model for reducing mother-to-child and discordant couple transmission of HIV. Prepared for Mothers2Mothers, July 2013.
- Arnold DL**, Williams MA, Miller RS, Qiu C, Sorensen TK. Iron deficiency anemia, cigarette smoking and risk of abruptio placentae. *Journal of Obstetrics and Gynaecology Research*. 2009; 35(3): 446-452.
- Arnold DL**, Gelaye B, Goshu M, Berhane Y, Williams MA. Prevalence & risk factors of gender-based violence among female college students in Awassa, Ethiopia. *Violence and Victims*. 2008; 23(6): 787-800.
- Gelaye B, **Arnold DL**, Williams MA, Goshu M, Berhane Y. Depressive symptoms among female college students experiencing gender-based violence in Awassa, Ethiopia. *Journal of Interpersonal Violence*. 2009; 24(3): 464-81.
- Stinghen ST, Moura JF, Zancanella P, Rodrigues GA, Pianovski MA, Lalli E, **Arnold DL**, Minozzo JC, Calfe LG, Figueiredo BC. Specific immunoassays for placental alkaline phosphatase as a tumor marker. *Journal of Biomedicine and Biotechnology*. 2006; Article ID 56087, 1-8.
- Denson, LA, Held, MA, Menon RK, Frank SJ, Parlow, AL, and **Arnold, DL**. (2003). Interleukin-6 inhibits hepatic growth hormone signaling via up regulation of Cis and Socs-3. *American Journal of Physiology: Gastrointestinal and Liver Physiology*. 284(4), G646-54.

PROFESSIONAL PRESENTATIONS

- Arnold DL** (2013) Invited Panelist- The use of high-quality data in development evaluation: methodological and practical considerations session. The 27th Annual Conference of the American Evaluation Association, October 19, 2013. Washington, D.C.
- Arnold DL, Gollub E, Bourgeois B** (2013) Louisiana Department of Health and Hospitals Tobacco Control Program: Schools Putting Prevention to Work, 1-Year Follow-Up Evaluation. The 27th Annual Conference of the American Evaluation Association, October 19, 2013. Washington, D.C.
- Arnold DL, Bourgeois B, Stansbury R** (2013) Louisiana Tobacco Control Program: Mid-point Evaluation of the Tobacco Free Healthcare Partnership Project. The 27th Annual Conference of the American Evaluation Association, October 19, 2013. Washington, D.C.
- Arnold DL**, Enquobahrie DA, Grote NK, Vander Stoep A, Williams MA (2013) Early pregnancy maternal vitamin D concentrations and risk of gestational diabetes mellitus. 26th Annual Society for Pediatric and Perinatal Epidemiologic Research, June 17, 2013. Boston, Massachusetts.
- Arnold DL**, Williams MA, Miller RS, Qiu C, Sorensen TK (2008) Iron deficiency anemia, cigarette smoking and risk of abruptio placentae. 21st Annual Society for Pediatric and Perinatal Epidemiologic Research, June 23, 2008. Chicago, Illinois.
- ***Arnold DL** (2007) Minority Health and Health Disparities International Research Training (MHIRT) Grant Program. National Institute of Health, National Center for Minority Health and Health Disparities Advisory Council Annual Meeting, September 18, 2007. Bethesda, Maryland.
- Arnold DL**, Gelaye B, Goshu M, Berhane Y, Williams MA (2007) Prevalence & risk factors of gender-based violence among female college students in Awassa, Ethiopia. 40th Annual Society for Epidemiologic Research, June 20, 2007. Boston, Massachusetts.

Arnold DL, Denson LA, Held MA, Menon RK, Frank SJ, Parlow AL (2001) TNF-alpha inhibition of growth hormone signaling in mice. Annual Biomedical Research Conference for Minority Students, November 2001. Orlando, Florida.

Arnold DL, Bart H (2000) The shape evolution of *Carpoides carpio*. United Negro College Fund/National Science Foundation Louis Stokes Alliance for Minority Participation Research Conference, October 2000. New Orleans, LA.