

# Natalie Frances Price, MPH

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## EDUCATION

**Doctor of Philosophy in Epidemiology in progress**  
at **University of Pittsburgh**

**Master of Public Health in Epidemiology of Microbial Diseases in 2013**  
at **Yale School of Public Health**

- Thesis: A Predictive Model of Avian Influenza Outbreaks in Poultry in Egypt

**Bachelor of Arts in Economics in 2009**  
at **Oberlin College**

- Thesis: An Evaluation of Wastewater Mitigation Policies in China

## WORK EXPERIENCE

**Monitoring, Evaluation and Research Manager from Jul 2018 – Aug 2021**  
and **Senior Analyst from Nov 2017 – Jul 2018**

at **Partners in Health in Boston, MA and Pittsburgh, PA**

- Support teams in 9 developing countries to evaluate the health services at 250 remote clinics and hospitals
- Develop and carry out research projects relating to non-communicable disease, maternal health, mental health, surgery and HIV
- Transform, warehouse and clean electronic medical record data in preparation for research projects
- Design surveys and configure data collection applications for health workers and researchers
- Write data analysis plans for grant proposals to government agencies and foundations
- Train and mentor staff in creating digestible and compelling data visualizations

**Implementation Support Manager from Jun 2015 – Aug 2017**  
at **Vera Solutions in Mumbai, India**

- Built data systems for NGOs and nonprofits to monitor and evaluate their programs
- Managed budgets and timelines for 4-5 concurrent projects in South and East Asia, and East Africa
- Provided training in data collection, management and analysis for clients with varied technical backgrounds
- Supported clients in monitoring, cleaning and mitigating data quality issues
- Managed three employees and planned weekly professional development programming for 20 employees

**Research Analyst from Aug 2013 – Jun 2015**  
at **Harvard TH Chan School of Public Health in Boston, MA**

- Evaluated the Botswana National HIV Treatment Program with partners at the Botswana Ministry of Health and University of Botswana
- Managed, cleaned and analyzed electronic medical record data for over 200,000 HIV patients, including more than 2 million clinical observations over 11 years
- Designed research studies and managed the research group's grant application submissions
- Mentored MPH and PhD students in selecting statistical methods for their independent research projects
- Designed course materials and acted as Teaching Assistant for a course on developing public health interventions
- Completed advanced courses in applied longitudinal analysis and econometrics

**Research Assistant from Jan 2012 – Aug 2013**

at **Occupational and Environmental Medicine Program, Yale School of Medicine in New Haven, CT**

- Built a database for a study on the health effects of fracking in Southwestern Pennsylvania
- Analyzed focus group transcripts to study the use of personal protective equipment by industrial workers
- Used environmental data to predict the cycles of avian influenza outbreaks using machine learning techniques in R

- Curated journal articles for the Canary Database, which catalogs animal research studies that could aid in understanding human environmental exposures and associated diseases

**Teaching Fellow in Remote Sensing Course** from **Jan 2013 – May 2013**  
at **Yale School of the Environment in New Haven, CT**

- Ran a weekly lab teaching students to analyze satellite images of earth to classify land use, land cover and measure changes over time

**Teaching Fellow in Eco-epidemiology Course** from **Aug 2012 – Dec 2012**  
at **Yale School of Public Health in New Haven, CT**

- Taught students to measure how environmental factors influence human disease, using disease modeling, geographic information systems (GIS) and remote sensing

**Animal Health Service Intern** from **Jun 2012 – Aug 2012**

at **UN Food and Agriculture Organization (FAO) in Rome, Italy**

- Worked with a diverse team to improve the FAO's disease surveillance database and online data sharing platform
- Presented innovative machine learning and phylogeographic methods of data analysis to public health experts
- Wrote a review paper on the social and economic impacts of avian influenza outbreaks and containment policies

**Administrative Assistant** from **Feb 2011 – Jun 2011**

at **Radiation Safety Department, Brigham and Women's Hospital in Boston, MA**

- Built an interactive database to inform radiation patients about safe contact with their families
- Maintained records for patient radiation dosing, physician training and hospital research permits

**Program Coordinator** from **Feb 2010 – Feb 2011**

at **Center for Community Health Improvement, Massachusetts General Hospital in Boston, MA**

- Designed and implemented afterschool programs to promote science education for youth from underserved neighborhoods in Boston
- Overhauled the program's evaluation strategy by developing new survey tools and key program indicators
- Expanded the program from one to five sites by training teachers and afterschool staff to deliver curriculum
- Formed new partnerships with biotechnology companies, local businesses, non-profits and universities to bring resources and educational experiences to my students

PUBLICATIONS

Wroe, E. B., Kalanga, N., Dunbar, E. L., Nazimera, L., **Price, N. F.**, Shah, A., ... & Talama, G. C. (2020). Expanding access to non-communicable disease care in rural Malawi: outcomes from a retrospective cohort in an integrated NCD–HIV model. *BMJ open*, 10(10), e036836.

Joharifard, S., **Price, N.**, Ipanaqué, J. G. Y., Clarke, R. H., Nyemah, E., Wallace, A. F., ... & Mentoe, S. J. (2020). The Impact of Implementing a Comprehensive Surgical Program on the Surgical Cohort at a Remote Referral Hospital in Southeastern Liberia. *World Journal of Surgery*, 44(3), 680-688.

Farahani, M., **Price, N.**, El-Halabi, S., Mlaudzi, N., Keapoletswe, K., Lebelonyane, R., ... & Gabaake, K. (2016). Impact of health system inputs on health outcome: a multilevel longitudinal analysis of Botswana National Antiretroviral Program (2002-2013). *PloS one*, 11(8), e0160206.

Farahani, M., **Price, N.**, El-Halabi, S., Mlaudzi, N., Keapoletswe, K., Lebelonyane, R., ... & Gabaake, K. (2016). Variation in attrition at subnational level: review of the Botswana National HIV/AIDS Treatment (Masa) programme data (2002–2013). *Tropical Medicine & International Health*, 21(1), 18-27.

Farahani, M., **Price, N.**, El-Halabi, S., Mlaudzi, N., Keapoletswe, K., Lebelonyane, R., ... & Gabaake, K. (2016). Trends and determinants of survival for over 200 000 patients on antiretroviral treatment in the Botswana National Program: 2002–2013. *AIDS (London, England)*, 30(3), 477.

Kane, M. J., **Price, N.**, Scotch, M., & Rabinowitz, P. (2014). Comparison of ARIMA and Random Forest time series models for prediction of avian influenza H5N1 outbreaks. *BMC bioinformatics*, 15(1), 276.

## PRESENTATIONS

Wroe, E., Kulinkina, S., Nazimera, L., Connolly, E., Suffrin, D., Ndarama, E., Joel, N., Kanyenda, C., Boti, M., Jamu, M., Mailosi, B., **Price, N.** (2020). Changing characteristics of new HIV diagnoses over time in rural Malawi. *AIDS 2020 – 23rd International AIDS Conference*.

## COMMUNITY SERVICE

### **Integrated Refugee and Immigrant Services (IRIS) in New Haven, CT from Aug 2011 – Aug 2013**

- Provided afterschool childcare services and homework help for refugee children recently relocated to New Haven
- Acted as volunteer coordinator for Yale School of Public Health students

### **Healthy Neighbors in New Haven, CT from Aug 2011 – May 2012**

- Tutored 3<sup>rd</sup> – 8<sup>th</sup> graders afterschool

### **Oberlin College Center for Leadership in Health Promotion in Oberlin, OH from Aug 2008 – May 2009**

- Served as a peer health educator focusing on student mental health, substance abuse prevention, nutrition, and exercise for fellow college students

## TECHNOLOGY

### **Statistical Analysis and Data Visualization**

R, Stata, SAS, PowerBI

### **GIS and Remote Sensing**

ArcGIS, ENVI

### **Database**

Salesforce, Microsoft Access, DHIS2, OpenMRS

### **Surveys and Mobile Data Collection**

REDCap, Open Data Kit (ODK), CommCare, Medic Mobile, SurveyCTO