

Wondwosen Kassahun-Yimer

## Curriculum Vitae

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### Education

- 2010–2014 **PhD.**, *Statistics*, Hasselt University, Belgium.  
Dissertation: Modeling Hierarchical Data Allowing for Overdispersion and Zero-inflation in Particular Excess Zeros  
Advisors: Professor Dr. Geert Molenberghs, Professor Dr. Christel Faes
- 2003–2004 **M.Sc.**, *Statistics*, Addis Ababa University, Ethiopia.
- 1994–1998 **B.Sc.**, *Statistics*, Addis Ababa University, Ethiopia.

### Experience

- May.2017–  
Present **Assistant Professor**, *Department of Data Science*, University of Mississippi Medical Center, USA.
- Aug.2015–  
Apr.2017 **Postdoctoral Fellow**, *Biostatistics and Bioinformatics Branch, Division of Intramural Population Health Research*, National Institutes of Health (NIH), USA.  
Research focus:  
- Joint modeling of multivariate longitudinal data with replications for several outcomes including semicontinuous, binary, and counts  
- Collaborative research to investigate changes in glycemic control and dietary intake among diabetic children receiving dietary intervention
- Sept.2014–  
Aug.2015 **Associate Professor**, *College of Public Health and Medical Sciences*, Jimma University, Ethiopia.  
Field: Biostatistics
- 2011–2014 **Assistant Professor**, *College of Public Health and Medical Sciences*, Jimma University, Ethiopia.  
Field: Biostatistics
- 2005–2010 **Lecturer**, *Public Health Faculty*, Jimma University, Ethiopia.  
Field: Biostatistics
- 2000–2004 **Researcher II**, *Population and Housing Census Commission Office*, Addis Ababa, Ethiopia.
- 1998–2000 **Researcher I**, *Central Statistical Authority*, Addis Ababa, Ethiopia.

### Major National Surveys

- Malaria Incidence in under 10 children near Gilgelgibe hydro electric dam, a case-control study.
- Home Based Malaria Management in Jimma Town, Ethiopia.
- Ethiopian Demographic and Health Survey (EDHS), 2000.
- Ethiopian Labour Force Survey (CSA), 1999.

## List of Publications

- Alemseged, F., Tegegn, A., Haileamlak, A., and **Kassahun, W.** (2008). Caregivers' Knowledge about childhood malaria in Gilgel Gibe field research centre, south west Ethiopia. *Ethiop.J.Health Dev.*, **22**: 49–54.
- Begna, Z., Assegid, S., **Kassahun, W.**, and Gerbaba, M. (2013). Determinants of inter birth interval among married women living in rural Pastoral communities of southern Ethiopia: a case control study. *BMC Pregnancy and Childbirth*, **13**: 116.
- Belachew, T., Lindstrom, D., Hadley, C., Gebremariam, A., **Kassahun, W.**, and Kolsteren P. (2013). Food insecurity and linear growth of adolescents in Jimma Zone, Southwest Ethiopia. *Nutrition Journal*, **12**:55.
- Ewnetu, H., **Kassahun, W.**, Hiko, D. (2014). Determinants of Diarrheal Disease among Adult People Living with HIV/AIDS Attending ART Clinics in Jimma Town, South-Western Ethiopia: A Case Control Study. *Journal of AIDS & Clinical Research*, DOI: 10.4172/2155-6113.1000380.
- Gebru, T., Taha, M., **Kassahun, W.** (2013). Prevalence of Diarrhea in Under-Five Children among Health Extension Model and Non-Model Households in Sheko District Rural Community, Southwest Ethiopia. *Science Journal of Public Health*, **1**: 230–234.
- Gebru, T., Taha, M., **Kassahun, W.** (2013). Risk factors of Diarrheal diseases in under-five children among health extension model and non-Model households in Sheko District Rural Community, Southwest Ethiopia: comparative cross-sectional study. *BMC Public Health*, DOI: 10.1186/1471-2458-14-395.
- Gemechu, T., Nigussie, B., Wondafrash, M., Vally, Jan., Lemmens, J., Thijs, H., **Kassahun, W.**, Kolsteren, P., Granitzer, M. (2016). Adaptation and standardization of a Western tool for assessing child development in non-Western low-income context. *BMC Public Health*, DOI: 10.1186/s12889-016-3288-2.
- Getachew, H., Ambaw, F., Abebe, L., **Kassahun, W.** (2011). Psychological distress and its predictors in AIDS orphan adolescents in Addis Ababa city: A comparative survey. *Ethiop. J. Health Dev.*, 25(2):135-142.
- Kalema G., Molenberghs, G., **Kassahun, W.** (2015). Second-order generalized estimating equations for correlated count data. *Computational Statistics*, DOI: 10.1007/s00180-015-0599-1.
- **Kassahun, W.**, Neyens, T., Molenberghs, G., Faes, C., and Verbeke, G. (2012). Modeling Overdispersed Longitudinal Binary Data Using a Combined Beta and Normal Random Effects Model. *Archives of Public Health*, DOI: 10.1186/0778-7367-70-7.
- **Kassahun, W.**, Neyens, T., Molenberghs, G., Faes, C., and Verbeke, G. (2013). A Joint Model for Hierarchical Continuous and Zero-inflated Overdispersed Count Data. *Journal of Statistical Computation and Simulation*, DOI: 10.1080/00949655.2013.829058.
- **Kassahun, W.**, Neyens, T., Molenberghs, G., Faes, C., and Verbeke, G. (2014). A Zero-Inflated Overdispersed Hierarchical Poisson Model. *Statistical Modelling*, **14**: 1–18.

- **Kassahun, W.**, Neyens, T., Molenberghs, G., Faes, C., and Verbeke, G. (2014). Marginalized Multilevel Hurdle and Zero-Inflated Models for Overdispersed and Correlated Count Data with Excess Zeros. *Statistics in Medicine*, DOI: 10.1002/sim.6237.
- Morankar, S., Tegene, A., **Kassahun, W.**, Sulueiman, S., Alem, Y., Yazachew, M., and Pagnoni, F. (2011). Validity and reliability of RDT for diagnosis of malaria among febrile children in Jimma Town, southwest Ethiopia. *Ethiopian medical journal*, **49**: 131–138.
- Mussema, Y., Deribew, A., and **Kassahun, W.** (2009). Does Insecticide Treated Mosquito Nets (ITNs) prevent Clinical Malaria in Children Aged Between 6 and 59 Months under program setting? *J.Community Health*, **34**: 102–112.
- Negussie, A., **Kassahun, W.**, Asseged, S., and Hagen k., A. (2016). Factors associated with incomplete childhood immunization in Arbegona district, southern Ethiopia: a case-control study. *BMC Public Health*, DOI: 10.1186/s12889-015-2678-1.
- Teshome, T., **Kassahun, W.**, Bati, T., and Abrha H. A. (2017). The prevalence and factors associated for anti-tuberculosis treatment non-adherence among pulmonary tuberculosis patients in public health care facilities in South Ethiopia: a cross-sectional study. *BMC Public Health*, DOI: 10.1186/s12889-017-4188-19
- Tilahun, T., Coene, G., Luchters, S., **Kassahun, W.**, Leye, E., Temmerman, M., and Degomme, O. (2013). Family Planning Knowledge, Attitude and Practice among Married Couples in Jimma Zone, Ethiopia. *PLoS ONE*, **8**: e61335.
- Wondimu, T., W/Michael, K., **Kassahun, W.**, and Getachew, S. (2007). Delay in initiating tuberculosis treatment and factors associated among pulmonary tuberculosis patients in East Wollega, Western Ethiopia. *Ethiop.J.Health Dev.*, **21**: 148–156.
- Workicho, A., **Kassahun, W.**, and Alemseged, F. (2017). Risk factors for multidrug-resistant tuberculosis among tuberculosis patients: a case-control study. *Infection and Drug Resistance.*, **10**: 91–96.
- Yewhalaw, D., **Kassahun, W.**, W/Michael, K., Tushune, K., Sudhakar, M., Kaba, D., Deuchateau, L., Van Bortel, W., and Spybrocek ,N. (2010). The influence of the Gilgel-gibe hydroelectric dam in Ethiopia on caregivers' knowledge , perceptions and health seeking behavior towards childhood malaria. *Malaria Journal*, **9**:47.
- Yewhalaw, D., Getachew, Y., Tushune, K., W/Michael, K., **Kassahun, W.**, Deuchateau, L., Van Bortel, W., and Spybrocek, N. (2013). The effect of dams and seasons on malaria incidence and anopheles abundance in Ethiopia. *BMC Infectious Diseases*, **13**:161.
- Yirga, D., W/Michael, K., Wondafrash, M., **Kassahun, W.**, and Deribe, K. (2008). Knowledge and Belief about Cause and Prevention of Onchocerciasis in Bebeke, South west Ethiopia. *Journal of Health Sciences*, **18**: 65–69.

## Seminar Presentations

- Joint Model for Multivariate Semicontinuous Data with Replications, Johns Hopkins University, USA, February 2016; Joint Statistical Meetings, August 2016.
- Zero-Inflated Overdispersed Hierarchical Poisson Model, Hasselt University, Belgium, March 2013.

## Professional Service

- Editorial Board Member, Ethiopian Journal of Health Sciences, 2010–2015.
- Ethical Clearance Committee member, Public Health Faculty, Jimma University, Ethiopia, 2008–2010.

## Professional Membership

- American Statistical Association

## Computer skills

Statistical Packages	SAS, STATA, R, SPSS
LaTex	Document Preparation System
Microsoft Offices	Word, Excel, Access, Powerpoint