

PROMOTION RECOMMENDATION
The University of Michigan
School of Public Health
Department of Epidemiology

Aubree Gordon, assistant professor of epidemiology, Department of Epidemiology, School of Public Health, is recommended for promotion to associate professor of epidemiology, with tenure, Department of Epidemiology, School of Public Health.

Academic Degrees:

Ph.D.	2009	University of California, Berkeley
M.P.H.	2005	University of California, Berkeley
M.A.	2002	University of California, Berkeley
B.S.	1998	University of North Carolina, Chapel Hill

Professional Record:

9/2014 – Present	Assistant Professor, Department of Epidemiology, School of Public Health, University of Michigan
7/2011 – 8/2014	Assistant Adjunct Professor, Division of Epidemiology, University of California, Berkeley
10/2010 – 8/2014	Assistant Researcher, Division of Infectious Disease and Vaccinology, University of California, Berkeley
6/2009 – 6/2012	Research Fellow, John E. Fogarty International Center, National Institutes of Health, Bethesda, Maryland
1/2011 – 5/2011	Lecturer, Division of Epidemiology, University of California, Berkeley

Summary of Evaluation:

Teaching: Professor Gordon has made strong contributions to teaching within the Department of Epidemiology. She co-taught EPID 503 (Strategies and Uses of Epidemiology), the introductory course for non-majors, four times. In 2017, Professor Gordon re-developed our advanced epidemiology methods course (EPID 601), which had been taught by another professor for over 10 years. This re-development work was significant and was viewed as highly successful, both by faculty and by students.

Professor Gordon has extensive mentoring experience for someone at her rank. She has been the dissertation chair for three epidemiology doctoral students and co-chair for one. She has mentored one post-doctoral scholar. Professor Gordon has supervised ten master's students' capstone projects, five students in the Minority Health and Health Disparities International Research Training Program (MHIRT), and five undergraduate students through the Undergraduate Research Opportunity Program (UROP).

Research: Professor Gordon studies the epidemiology of influenza in developing countries, particularly Nicaragua. Specifically, she focuses on the dynamics of influenza transmission, including the natural history of transmission, the susceptibility to infection, and the development of immunity. She has established a number of field studies including two prospective pediatric cohort studies (2007-2010 and 2011-ongoing), a birth cohort study (2011-2016), a household transmission study (2012-2017) and a family cohort study (2017-ongoing). Data from these cohorts uniquely position Professor Gordon to answer fundamental questions that are of the utmost priority for the understanding of influenza and the development of next-generation vaccines. Many of these

questions in the influenza field that Professor Gordon's cohort are set up to address have been identified by the National Institute of Allergy and Infectious Disease (NIAID) as critical questions and are outlined in their recently published strategic plan for a universal vaccine.

The high regard for Professor Gordon's work is exemplified in her extraordinary funding record. Since her arrival at the University of Michigan in 2014, Professor Gordon successfully competed for a total of \$6.1 million dollars (direct costs) of PI-level grant funding. This includes one R01, two R21s, one R56, and one U01 cooperative agreement, all from the National Institutes of Health (NIH). She was also awarded a K02 from the Fogarty International Center (NIH). In addition, Professor Gordon has received multiple subcontracts to support projects through the St. Jude Centers of Excellence in Influenza Research and Surveillance (SJ CEIRS), a large NIH-funded program. Professor Gordon is also a collaborator on a program project focusing on dengue, serving as the Core Lead for the Clinical Studies and Data Management Core.

Professor Gordon has a total of 46 peer-reviewed publications, 27 of which were published since beginning at the University of Michigan. Professor Gordon's publication rate has accelerated in recent years as her field studies have matured. She has also co-authored the chapter on infectious diseases in one of the most prominent global health textbooks (Global Health: Diseases, Programs, Systems and Policies). Professor Gordon has strong visibility in the field of influenza research and global health. In 2017, she was named a National Academies of Science Kavli Fellow and has received six young investigator awards and the Fogarty International Director's Merit Award.

Recent and Significant Publications:

- Gordon, A., Tsang, T., Cowling, B., Kuan, G., Ojeda, S., Sanchez, N., Gresh, L., Lopez, R., Balmaseda, A., and Harris, E. (2018) Influenza Transmission Dynamics in Nicaraguan Households. *Emerg Infect Dis*. Oct;24(10):1882-1888.
- Maier, H., Lopez, R., Ng, S., Gresh, L., Ojeda, S., Burger-Calderon, R., Harris, E., Balmaseda, A., and Gordon, A. (2018) Obesity increases influenza A shedding in adults. *J Infect Dis* Aug 2. doi: 10.1093/infdis/jiy370. [Epub ahead of print]
- Gordon, A., Gresh, L., Ojeda, S., Chowell-Puente, G., Gonzalez, K., Sanchez, N., Saborio, S., Mercado, JC, Kuan, G., Balmaseda, A., and Harris, E. (2018) Differences in Transmission and Disease Severity Between Two Successive Waves of Chikungunya. *Clin Infect Dis*. Apr 25. doi: 10.1093/cid/ciy356. [Epub ahead of print] PMID: 29697796.
- Gresh L, Kuan G, Sanchez N, Azziz-Baumgartner E, Ojeda S, Melendez M, Lopez R, Martin ET, Widdowson MA, Bresee J, Harris E, Balmaseda A, and Gordon A. (2016) Burden of Influenza and Influenza-Associated Pneumonia in the First Year of Life in a Prospective Cohort Study in Managua, Nicaragua. *Pediatr Infect Dis J*. Feb; 35(2) 152-6.
- Gordon, A., Saborio, S., Videau, E., Lopez, R., Kuan, G., Balmaseda, A., Harris, E. (2010) Clinical attack rate and presentation of pandemic H1N1 compared to seasonal influenza A and B in a pediatric cohort in Nicaragua. *CID* Jun 1;50(11):1462-7.

Service: Professor Gordon has served on multiple departmental committees including the Doctoral Committee and the Admissions Committee and has reviewed grants for the University of Michigan, School of Public Health, Global Health office and the University of Michigan International Institute. Professor Gordon's service at the national level includes being a member of the NIAID Steering Committee for Cohort Studies, a member of the organizing committee for the National Academies of Science 2019 Korean American Kavli Frontiers of Science Meeting, and a member of the External Advisory Board for the New York Influenza Center of Excellence (NYICE). She has served on the NIH Working Group to Harmonize Zika Pregnancy Cohorts, drafted a briefing document for SAGE,

served as a consultant for the Center for Disease Control, and aided the Nicaraguan Ministry of Health in establishing surveillance for influenza, chikungunya, and Zika. Professor Gordon has also served as a reviewer on multiple NIAID and Center for Disease Control study sections.

External Reviewers:

Reviewer A: “Dr. Gordon's cohort in Nicaragua is impressive. Maintaining such a large cohort takes talent, dedication and an immense amount of hard work.”

Reviewer B: “Dr. Gordon’s main contribution to the influenza field is in improving our understanding of this disease in tropical, poor countries. ... Dr. Gordon’s publication and funding records are outstanding.”

Reviewer C: “Dr. Gordon's track record for establishing and maintaining longitudinal cohort studies for research on infectious diseases is extremely impressive. Less than a decade out of her PhD she has a leading role in no fewer than six major cohort studies.... Dr. Gordon is clearly an outstanding scientist. Her work is of the highest quality.”

Reviewer D: “I have come to know of Dr. Gordon's pioneering studies on early childhood infection with influenza through her established pediatric cohorts and family transmission studies in Nicaragua. ... These pediatric cohorts and the associated family studies are tremendously valuable for the goal of understanding features of transmission, viral shedding, and protective immunity induced by infection.”

Reviewer E: “Dr. Gordon is highly regarded in the field and is often one of the first names mentioned when considering speakers for international meetings. I can't speak highly enough of her research.”

Reviewer F: “It is notable that the work of Aubree stands firmly at the core of the most significant current efforts of the NIH/NIAID to improve the influenza vaccine. Aubree has now positioned herself to be a key member of the influenza scientific community for many years to come...”

Summary of Recommendation: Professor Gordon researches the epidemiology of influenza in developing countries. She is regarded as a leader in this area, in part through her having developed a number of important and highly-valued cohorts in Nicaragua. Professor Gordon has taught approximately two courses per year at her current rank, with her teaching evaluation scores being consistently very good. She has shown a high level of service at the department, university, and national level. It is with the support of the School of Public Health Executive Committee that I recommend Aubree Gordon for promotion to associate professor of epidemiology, with tenure, Department of Epidemiology, School of Public Health.



F. DuBois Bowman, Ph.D.
Dean, School of Public Health