



# Annual Report

*Global Health Initiative*

	<b>9/21/2020</b>	
<h1>Annual Report</h1> <p><i>Global Health Initiative</i></p>		
		2019-2020

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## Mission & Vision



The Global Health Initiative engages OHIO faculty and students in collaborative, multi-disciplinary global health education, research and outreach.

Our vision is to be a global leader in the development of health professionals with the capability to promote health among diverse and underserved populations.

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## Long Term Outcomes

1. More culturally sensitive and globally informed workforce in the health professions.
2. Strengthening and supporting health systems in the communities where we work.
3. More globally engaged and culturally informed faculty and university.
4. Encouraging more OHIO faculty to engage with health and wellness in a multidisciplinary fashion.
5. More OHIO graduates in the health professions working in underserved areas.
6. Strengthening, clinical, research and practice skills.

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## Summary

Goals for the eighth year (2019-2020) of Ohio University's Global Health Initiative were to:

- To increase enrollment of the Master of Global Health program
- To expand health system strengthening programs and activities
- To establish program and learning outcome evaluation methods for Global Health opportunities
- To improve and sustain existing partnerships, programming, and curriculum
- To build new partnerships and programs

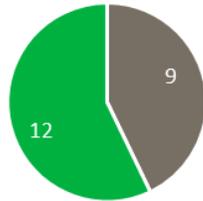
With the COVID-19 pandemic, summer and spring travel were cancelled affecting spring Global Health Elective Rotations for Medical Students and summer faculty led programs. With the university community focused on working and learning in a virtual format, the goals to establish program evaluation, and build partnership and programs were not met. Some highlights for the year are:

- The first cohort of students (8) in **Master's Degree** continued into their 2<sup>nd</sup> year **with the first graduating summer 2020**. Started process to be able to accept F Visa students and continued to explore marketing options.
- Prior to COVID shutdown of travel, completed a **Secondary Data Research Training with faculty in Ethiopia** as part of the 1804 grant, with multiple presentations, abstracts and manuscripts resulting from activities related to this grant that will lead to future projects.
- Completed **mapping and improvement efforts for IHS 2215 and IHS 3222/5222** and added new adjunct faculty for IHS 3222/5222.

## Global Health Experiences Program Participation

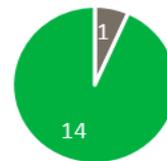
21 Total Participants in 2  
GH Experiences\*

\*All other programs cancelled due to  
COVID



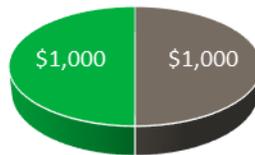
■ Costa Rica Intro to Global Health ■ London Global Public Health

Coordinated 15  
Heritage College Global  
Health Elective  
Rotations\*  
\*1 Completed



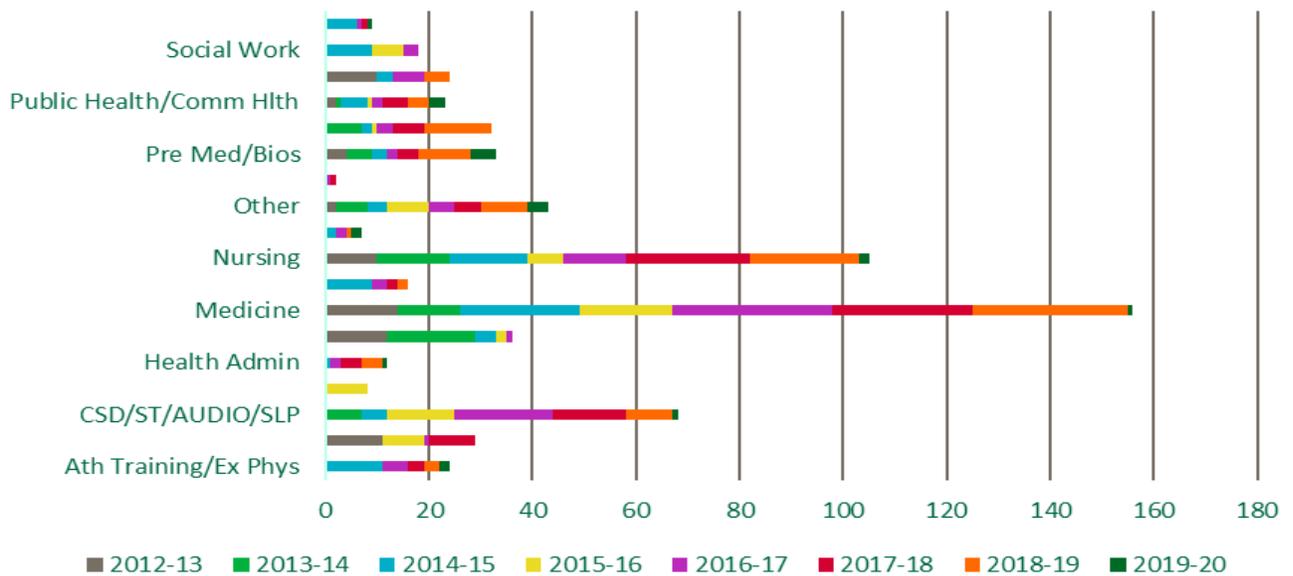
■ OMSIV ■ OMSIV Planned

\$2,000 in Student Travel Scholarships



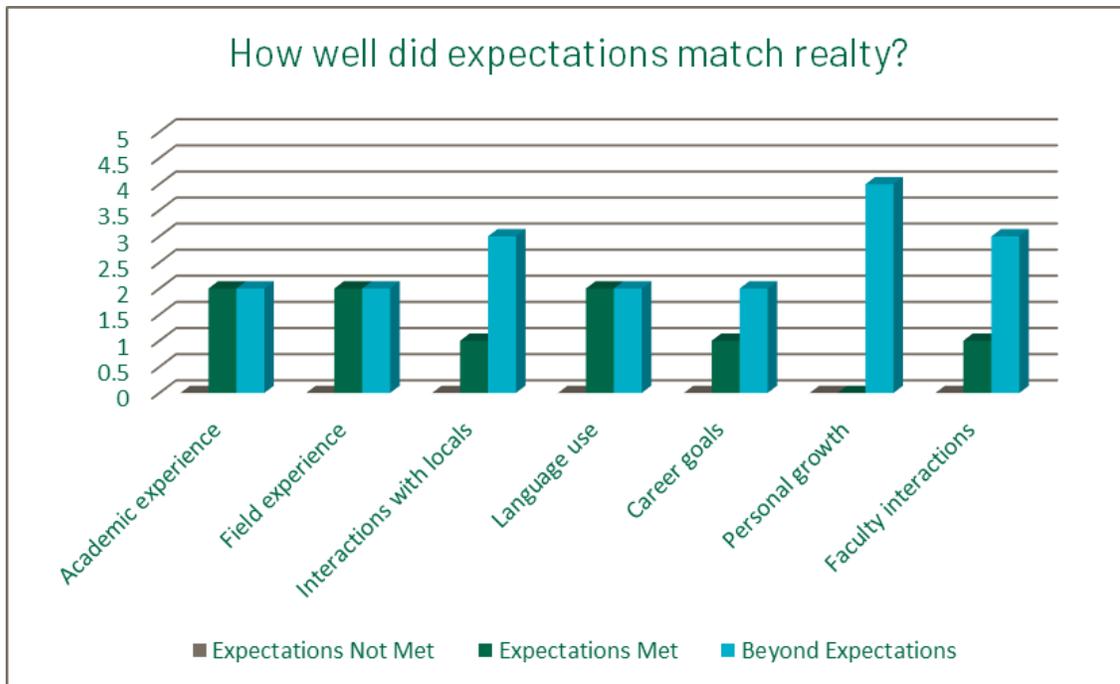
■ Programs  
■ Ind Rotations

### Global Health (Study Abroad) Participation by Major

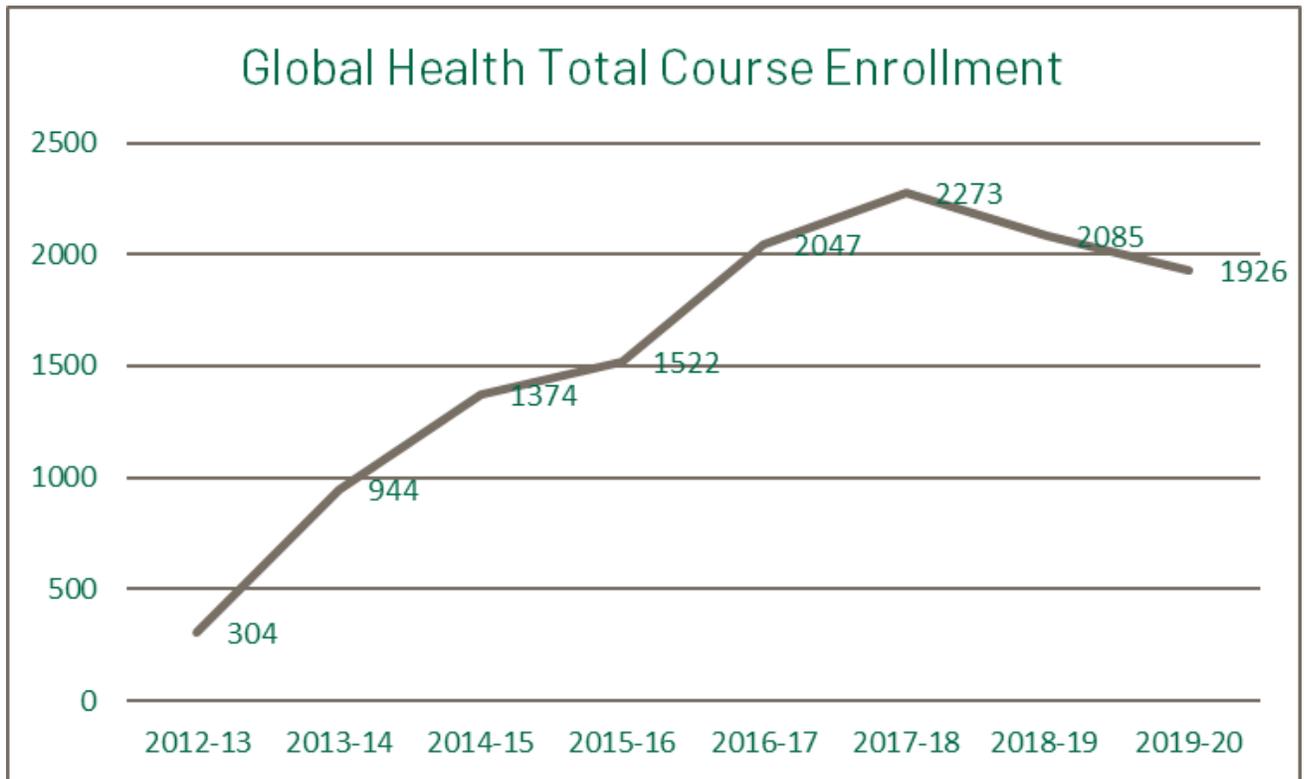
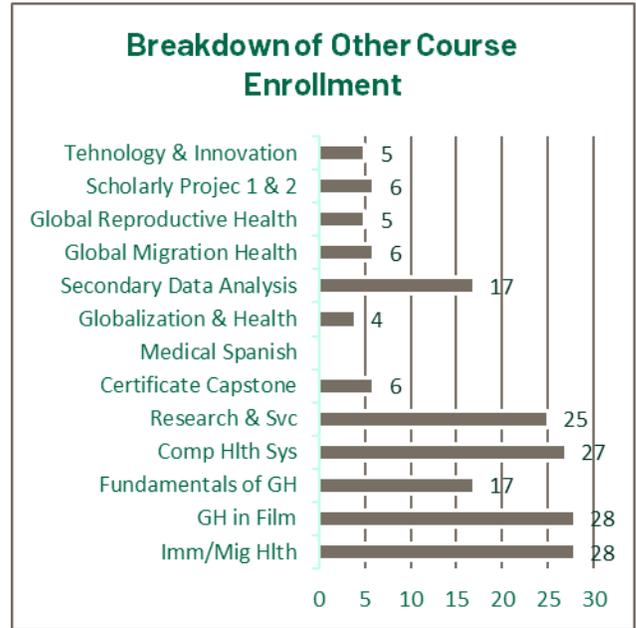
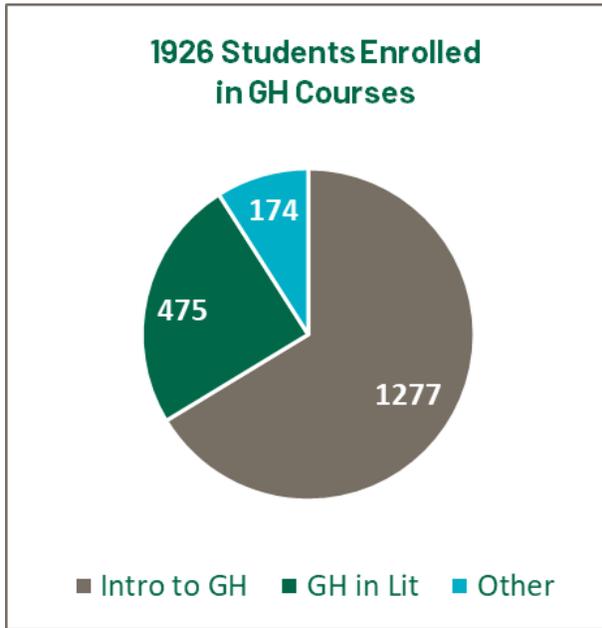


## Global Health Experiences Program Evaluation

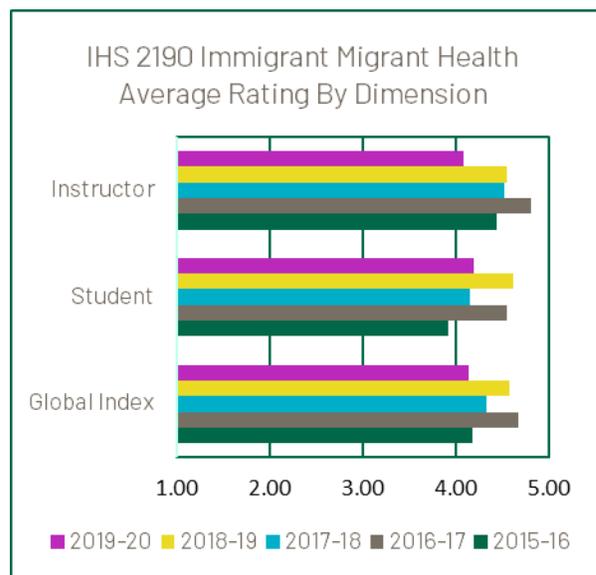
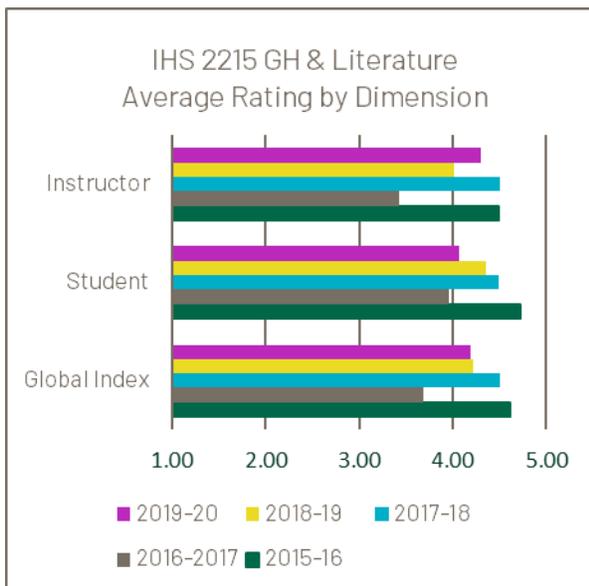
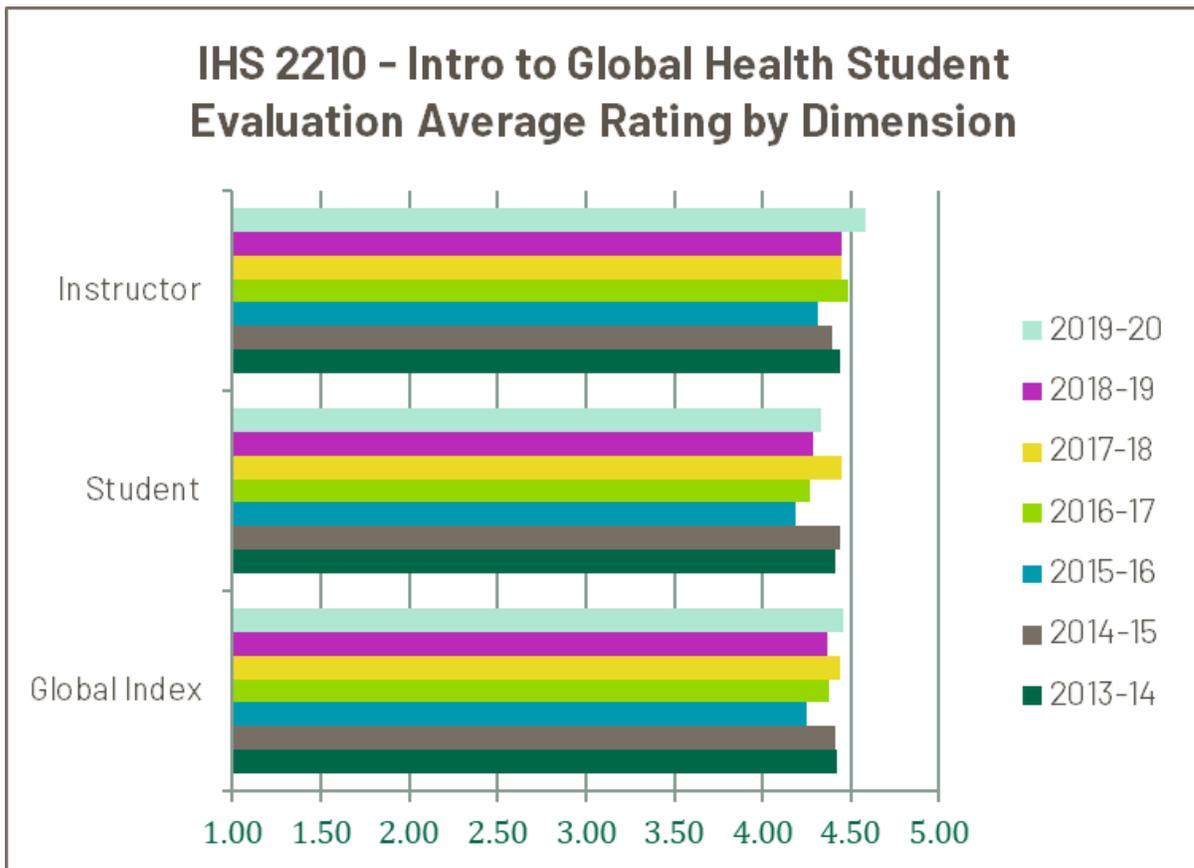
Only the Costa Rica Introduction to Global Health program was unaffected by COVID-19. Four of the 9 students participating in this program responded to the final program evaluation. As the students participating in the Spring Break UK: London Global Public Health returned during the start of the COVID epidemic, they immediately returned to their homes instead of campus and no evaluation responses were received from this group. One evaluation question asked participants to rate how well their expectations matched the reality of several elements of the program.

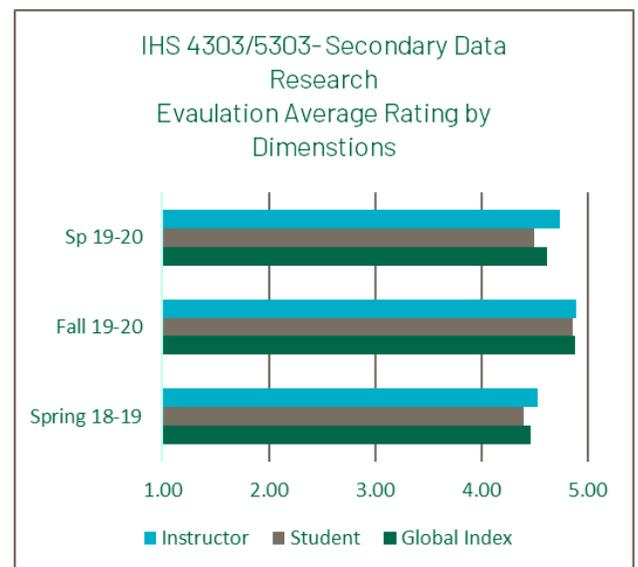
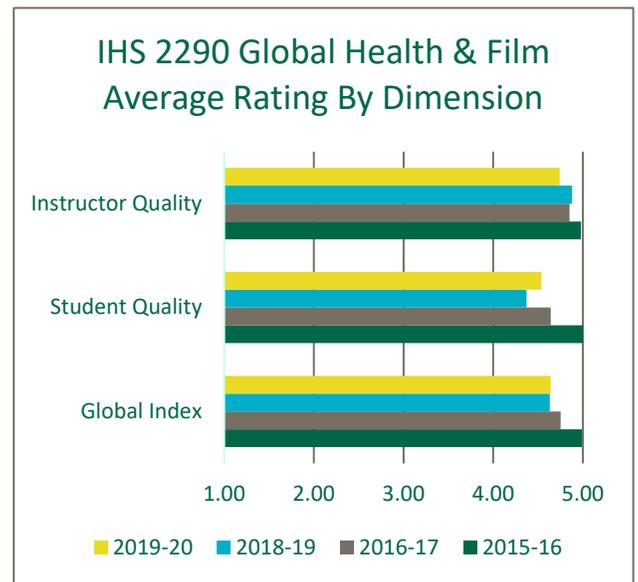
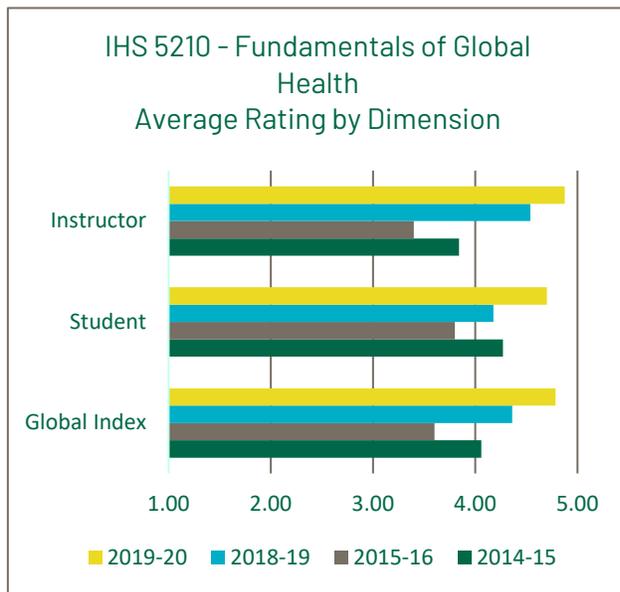
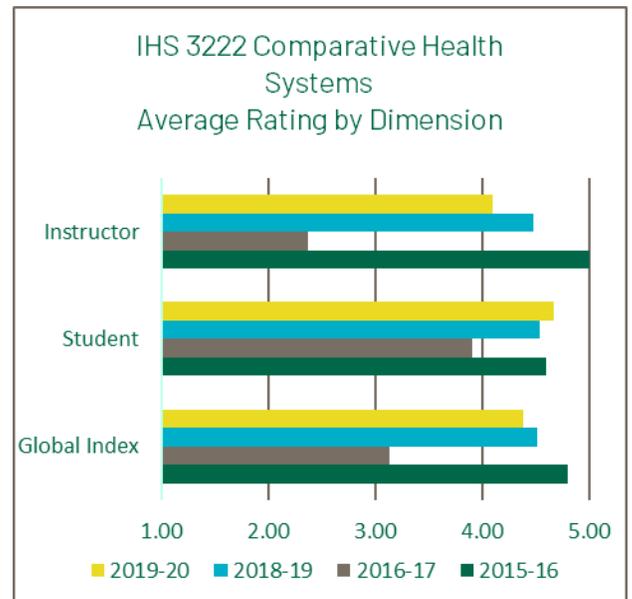
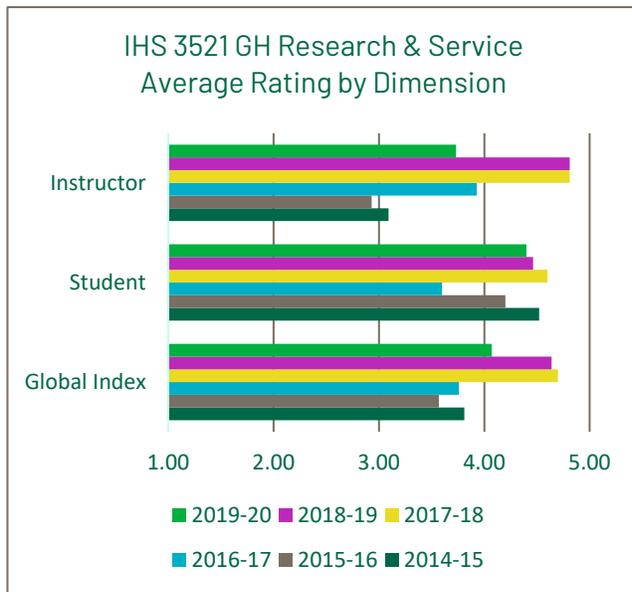


# Global Health Course Participation



Global Health Course Evaluation





## Achievements & Recognition

**Student Awards:** Jiewen Li was awarded with the 2020 Heritage College Global Health Award. This award is given annually to a graduating medical student who has shown a commitment to Global Health through their four year career at the Heritage College.

## Committees

Gillian Ice, Ph.D. MPH	<ul style="list-style-type: none"> <li>- Chair of the University International Council (UIC) 2016-2018</li> <li>- Heritage College Executive Committee, 2013-2020</li> <li>- Advisor AMSA and IFMSA, 2010-2020</li> <li>- HCOM Admissions committee 2016-2020</li> <li>- Global Engagement Awards Committee, 2014-2019</li> <li>- Public Health Task Force, 2014-</li> <li>- Study Abroad Graduate Travel Award Review Committee, 2012-2020</li> <li>- Study Abroad Risk Assessment Committee, 2012-2020</li> <li>- Botswana Relations Task Force, chair, 2013-</li> <li>- Senior International Management Team, 2016-</li> <li>- Global Relations Committee, 2017-2020</li> <li>- Global Education and Research Committee, 2017-2018</li> <li>- Judge, Ohio University Expo, 2004-</li> <li>- Ohio Women's Mentoring program 2016-17</li> <li>- Human Biology Association Program Committee 2016-2018</li> </ul>
Debra McBride, MA	<ul style="list-style-type: none"> <li>- CHSP Diversity &amp; Inclusion Committee 2017-20</li> <li>- CHSP Community Engagement Committee 2019-20</li> <li>- University Service Learning Committee 2016-19</li> <li>- UIC Mobility Subcommittee 2016-18</li> <li>- Judge, Ohio University Expo 2019</li> <li>- Fellow – Center for Entrepreneurship 2018-2020</li> </ul>

## Associations

Gillian Ice, Ph.D. MPH	<ul style="list-style-type: none"> <li>- American Association for the Advancement of Science, member</li> <li>- American Journal of Human Biology, 2014-present (editorial board)</li> <li>- American Association of Anthropologists, Member</li> <li>- American Association of Physical Anthropologists, Member</li> <li>- Gerontological Society of America, Fellow</li> </ul>
	<ul style="list-style-type: none"> <li>- Human Biology Association, Fellow &amp; Secretary Treasurer (2004-2008), Chair Nominations and Elections (2014-2015), Program committee (2017-)</li> <li>- Journal of Cross Cultural Gerontology, 2001 – present. (editorial board)</li> <li>- Society for Applied Anthropology, Fellow</li> <li>- Society for Medical Anthropology, Member</li> <li>- Board Member Factory Street Studio</li> </ul>
Debra McBride, MA,	<ul style="list-style-type: none"> <li>- Judge, The Partnership for Excellence, 2015-2020</li> <li>- Alumni Examiner, Examiner Trainer, Baldrige Performance Excellence Program</li> <li>- National Peace Corps Association</li> </ul>

## 1804 Grant - Transdisciplinary Research Training in Global Health: Enhancing student and faculty research capacity, program evaluation and research application through global collaborative partnerships



Global health and development employers seek graduates with analytic skills, experience with program evaluation and the ability to apply research to real-life problems in an international setting. Yet, undergraduate and graduate students in the health, population and social sciences at OHIO lack access to real-life research, program evaluation projects, and applied research opportunities. The Global Health Initiative proposed in 2018 to provide opportunities in research, program evaluation, and policy translation for both undergraduate and graduate students through novel approaches in course design and curriculum development.

The approach integrates real-world data into the development of three courses linked to the Global Health Initiative's (GHI) on-going international partnership activities such as in Botswana. The training model used in Botswana ("education through research") embeds real-world data into the curriculum to train participants how to (a) articulate meaningful research questions, b) analyze and interpret data, and (c) prepare scholarly manuscripts.

Over the last two years, we have focused on the core elements of the project – research training programs and course development and implementation. Research training workshops: As of May 2020, we have completed five research training workshops with partners, three were at partner institutions in Ethiopia and Rwanda (Woldia University & Bahir Dar University, Ethiopia and University of Rwanda), two at Ohio University with Fulbright scholars as a portion of the Fulbright Junior Faculty Development program (JFDP). The JFDP was fully funded through the Fulbright program via Institute for International Education (2018) and AMIDEAST (2019). We applied for a 2020 JFDP cohort but we did not receive it (Note: feedback we received indicated that the decision was not based on the quality of the grant but rather that they wanted "geographic diversity" in hosting institutions). To date, the training programs have resulted in the following collaborative research presentations and manuscripts in various stages of submission/publication. Additionally, we have drafts of an additional four manuscripts which are currently being reviewed by OHIO faculty. A detailed evaluation of the research training program conducted by Drs. Johnson and Lewis is attached to this report.

### **Presentations:**

Adham, M, C Cronin, Z Haile, GH Ice (2020) The Moderating Role of Urban Versus Rural Residence on the Association Between Household Wealth Index and Dental Care Utilization in Egypt. Submitted for Presentation at the Consortium of Universities for Global Health conference, 2020. (not presented due to COVID19)

Amrousy, Y, B Franz, Z Haile, GH Ice (submitted). Determinants of Anemia among Egyptian Children and Adolescents. Submitted for presentation at the Consortium of Universities for Global Health conference, 2020. (not accepted)

Fahmy, S, Z Haile, GH Ice (submitted). Passive Smoking and Knowledge of Self-Breast Examination in Egyptian Women: A Secondary Data Analysis. Submitted for presentation at the Consortium of Universities for Global Health conference, 2020. (not accepted)

Farrag, NH, D Berryman, Z Haile, GH Ice (2020). Association Between Exclusive Breastfeeding and Acute Respiratory Infections Among Infants Younger than 6 Months in Egypt. Submitted for presentation at the Consortium of Universities for Global Health conference, 2020. (not presented due to COVID19)

Ice, GH, TB Fahmei, R Tanda, M Gartin, Z Haile, A Ruhil (2019) Changes in living arrangements of older adults in Egypt 2000-2014. Presented at the Human Biology Association Meetings, March, 2019

Soliman, S, E. Guseman, Z. Haile, GH Ice (2020) Prevalence and Determinants of Hypertension Unawareness among Egyptian Adults: The 2015 EHIS. The Lancet Global Health Volume 8 (Special Issue 1): S20. (CUGH, not presented due to COVID19)

### **Manuscripts**

Abebe, E, Seid, A, Gedefaw, G, Haile, ZT, Ice, G (2019). Association between antenatal care follow-up and institutional delivery service utilization: Analysis of 2016 Ethiopia Demographic and Health Survey. BMC Public Health. 19:1472 doi: 10.1186/s12889-019-7854-2.

Beletew, B., Mengesha, A., Abate, M., Birara, A., Wendimagegni, A., Wudu, M. Haile, ZT., Ice, GH. (Submitted) Association between Place of Residence and Comprehensive HIV/AIDS Knowledge among Young Women in Ethiopia. BMC Public Health

Diress, G, Ahmed, M, Yimer, A, Adane, S, Mekuriaw, K Ice, GH, Haile, Z (Submitted). Association Between Comprehensive Knowledge To HIV And Pre-Marital Sexual Intercourse Among Unmarried Youth Women In Ethiopia,2018. Reproductive Health

Fadl, N., Haile ZT. (Submitted). Association between mode of delivery and breastfeeding practices in Egypt: a population-based study. Eastern Mediterranean Health Journal (Revise and Resubmit).

Fadl, N, Haile, ZT MPH, Ice, GH (Submitted) The Association between maternal high-risk fertility behavior and anemia among reproductive age women in Ethiopia. Maternal and Child Health Journal

Fahmei, TB, Tanda, R, Haile, ZT, Ruhil, A, Gartin, M, Ice, GH (2020) Changes in living arrangements of older persons in Egypt 2000-2014. Egyptian Journal of Nursing & Health Sciences 1(1):60-72.

Rosinger, AY, Ice, GH (2019). Secondary data analysis to answer questions in human biology. Human Biology Toolkit Series. American Journal of Human Biology (early view) DOI: <https://doi.org/10.1002/ajhb.23232>

Soliman, SAS, Guseman, EH, Haile, ZT, Ice, GH (Submitted) Prevalence and determinants of Hypertension Unawareness among Egyptian adults: The 2015 EHIS. Journal of Human Hypertension.

Mulatu, T, Yimer, NB, Alemnew, B, Linger, M, Haile, ZT G Ice, Liben, ML (Submitted). Exclusive breastfeeding lowers the odds of childhood illnesses: Evidence from the 2016 Ethiopian Demographic and Health Survey. Archives of Public Health

**Course Development:** For this project, we proposed two new classes and an adaptation of an existing class. IHS 4303/5303 Secondary data analysis in global health and development was offered by Dr. Haile 3 times over the course of the grant, with 2 undergraduate and 25 graduate students total. Students came from a variety of CHSP masters programs as well as the CIS programs and HCOM. Additionally, due to COVID-19 restrictions students completing their scholarly projects for the MGH program will revise, finalize and submit secondary data analysis projects started in the course to partially fulfil that requirement. We had mixed success with mentors through this program but we had ten student-led abstract submissions and three manuscript submissions from the classes.

### Abstracts

Cross, N., Cronnin, C, Haile, ZT (2019) Women's Decision-making Autonomy and Utilization of Postnatal Care in Pakistan. 47th annual North American Primary Care Research Group annual meeting, November, 2019, Toronto, Canada.

Omar, S., Haile, ZT., Chertok, IRA. (2019) Association between exclusive breastfeeding and infant health outcomes in Pakistan. Presented at the North American Primary Care Research Group Annual Conference, November 2019, Toronto, CA.

Russell, M., Haile ZT. Urban-rural differences in the association between household wealth index and modern contraceptive use in Albania. Submitted for presentation at the American Public Health Association meetings, November 2020, San Francisco, CA.

Yang, Y., Haile ZT. No association between women's empowerment and infant mortality in India. Submitted for presentation at the American Public Health Association meetings, November 2020, San Francisco, CA.

Aidoo, G., Haile ZT. Prevalence and correlates of early marriage in Nigeria: A population-based study. Submitted for presentation at the American Public Health Association meetings, November 2020, San Francisco, CA.

Connell, M., Haile ZT. Association between access to quality water sources and prevalence of childhood diarrhea in children under five living in Tanzania. Submitted for presentation at the American Public Health Association meetings, November 2020, San Francisco, CA.

Jackson, F., Haile ZT. Association between educational attainment and risky sexual behavior among female youth in Ghana. Submitted for presentation at the American Public Health Association meetings, November 2020, San Francisco, CA.

Sarker, Z., Haile ZT. Association between the type of place of residence and modern contraceptive use among married women in Bangladesh. Submitted for presentation at the American Public Health Association meetings, November 2020, San Francisco, CA.

Grbicich, A., Haile ZT. No association between comprehensive knowledge of HIV transmission prevention and self-reported sexually transmitted infections among married women in the Maldives. Submitted for presentation at the American Public Health Association meetings, November 2020, San Francisco, CA.

Tutu, P. Haile ZT. Association between secondhand smoke exposure and symptoms of acute respiratory infection among children under-five in Ghana. Submitted for presentation at the American Public Health Association meetings, November 2020, San Francisco, CA.

### Manuscripts

Saeed OB, Haile ZT, Chertok IA. 2020. Association Between Exclusive Breastfeeding and Infant Health Outcomes in Pakistan. *J Pediatr Nurs*. 50:e62-e68. doi10.1016/j.pedn.2019.12.004.

Kurniawan, D., Chertok, IRA., Haile, ZT. Association between place of delivery and early breastfeeding initiation in Indonesia. *Journal of Human Lactation* (Revise and Resubmit).

Russell, M., Haile ZT. Urban-rural differences in the association between household wealth index and modern contraceptive use in Albania. *Journal of Rural Health* (Under Review)

Special sections of MPA 5580 Public Sector Program Evaluation were offered by Dr. Johnson twice during the grant. Eleven students enrolled in these sections. The evaluations of the research training program were utilized as case studies in those sections. IHS 4710/5710 is still in development.

Faculty training: It was our intention to conduct a series of training sessions for faculty members. Specifically, we plan to train faculty on the model so they can participate in future training sessions or utilize secondary data analysis approaches in their own research agenda. We have conducted one training session with five faculty who then became mentors for the Fulbright 2019 cohort. Dr. Mohamed Rifat Haider was individually trained and then assisted at Bahir Dar University in March 2020.

Increased faculty scholarly productivity: As detailed above, through this grant, we conducted several trainings that resulted in multiple scientific presentations and manuscripts. Additionally, the training was supported by two external grants. The presentations, manuscripts and grants engaged a variety of faculty from across campus. We have an internal grant pending to conduct a research training workshop in Ghana. If funded, this project will have an additional element of incorporating trainees from our Rwanda program as assistant trainers. We are currently in discussions with University of Rwanda to market the training program to local and regional NGO and university partners..

The evaluation data collected by Drs. Johnson and Lewis will not only prove useful in future grant proposals but they will also be used for presentations on the training approach. We plan to submit symposia/presentations to Consortium of Universities for Global Health (CUGH), Unite for Sight Global Health and American Public Health Association to share this innovative model of strengthening health systems through research skill building and innovations in student research engagement.

Curriculum enhancement and student research opportunities: The proposed course series is an innovative approach to engaging undergraduate and graduate students in research, program evaluation and policy. As can be seen by the list of abstracts and manuscripts, the secondary data analysis class is particularly effective as a unique learning opportunity. Particularly in the time of COVID, when we have limitations on the number of students who are able to participate in lab or field research, secondary data analysis is a strong way to engage students in research that results in scholarly output in a timely manner. This proved to be particularly helpful for our MGH students who were unable to complete planned field research over the summer. By shifting to secondary data analysis, students can complete a research project and graduate on time. We are currently in discussion with HCOM to implement the research training program to provide a research opportunity for students who were unable to participate in planned laboratory and clinical research experiences as part of the RSAF program. We will engage faculty as mentors, using a similar model to that of IHS5303.

<b>Goals</b>	<b>Preliminary Evaluation Findings</b>
Provide foundational knowledge of US higher education, academic administration and leadership systems.	Scholars report that they learned a great deal about how US institutions of higher education worked but they also noted that this was not one of their highest priorities ranking it an 8 out of 13. In the final focus group, they expressed a preference for less time to be devoted to this area and more time focused on research and curriculum development.
Share knowledge in innovative curriculum and pedagogical methods and strategies for student engagement.	Curriculum development was ranked as a high interest and Scholars were generally in agreement that the workshops in this area were very useful. They especially liked the engaging activities, such as games. One suggestion that was made was to do the workshop on pedagogy first and then the strategies for online and blended courses.
Develop online and blended courses to be taught jointly with Egyptian and OHIO scholars	The scholars, for the most part, were unable to complete the development of an online or blended course but some have plans to do so when they return to their universities. Information in the follow up survey will provide more information about whether this was successful.
Increase research capacity of Egyptian scholars through active participation in research methods and academic writing workshops.	All the scholars reported being highly invested in this goal and most were pleased by the workshops in this area. They would like more time devoted to this area. While they appreciated the exposure to both R and SAS, they noted that it wasn't sufficient. Using secondary data as a basis for conducting research was a major realization for all the scholars and they felt that this was highly useful and they would be able to apply this to their work when they return home. Scores on the CRAI indicate that the scholars believed that they increased their sense of efficacy in some areas and became aware of some of their own limitations in other areas.
Establish research collaborations between scholars and OHIO faculty.	All of the scholars developed collaborative projects with US mentors. All scholars presented their findings in a concluding capstone presentation. Most noted that they would like more time devoted to research.
Collaboratively produce 5-7 manuscripts based on analysis of publicly available secondary data.	Information about this will be reviewed after the follow-up surveys are completed. Additionally, information from the post-survey of the mentors will provide some insight into progress towards publication.
Provide meaningful cultural exchange between the Athens community and Egyptian scholars.	The Scholars all appreciated the many cultural and recreational activities that they participated in, including trips to New York City and Washington DC. The welcome BBQ, Ohio State Fair, riverboat ride and Columbus Zoo were the most highly rated activities. Half of the scholars had host families, who participated in many of the cultural experiences and invited them into their homes for meals. The Scholars reported that this was a valuable part of their experience.