

ICAP Next Generation Internships 2021



ICAP's Next Generation Program is a multidisciplinary training initiative that provides students with internship and fellowship opportunities focusing on global public health.

Through the Next Generation Program, students engage in the design, implementation, and evaluation of ICAP-supported programs while working side-by-side with global health experts. Students will learn about health care delivery systems in low-resource settings while working on a discrete programmatic project with ICAP team members. The Next Generation interns spend two to six months engaged in the design, implementation and/or evaluation of ICAP-supported programs in Africa, Asia and New York under the mentorship of ICAP staff.*

This opportunity is open to students enrolled in one of the following schools at the Columbia University Irving Medical Center:

- The Mailman School of Public Health
- The College of Physicians and Surgeons
- The College of Dental Medicine
- The School of Nursing

Application Components

- 1) Current resume
- 2) Statement of interest
- 3) One letter of recommendation
- 4) A ranking of project preferences with up to five projects

All application components should be emailed as one-PDF file to icap-nextgen@cumc.columbia.edu. Letters of application can be sent separately and directly from the recommender. Applicants are responsible for confirming receipt of all materials.

All application components are due by Monday, March 1, 2021 by 11:59 PM

You can find more information about the Next Generation Internship Program by visiting ICAP website at:

<https://icap.columbia.edu/student-resources-archive/internships/>

If you have any questions, please contact icap-nextgen@cumc.columbia.edu

* There is a currently a University restriction on student travel. All projects are remote experiences as of January 2021. If University travel restrictions are lifted, projects may be reviewed for in-country travel.



ICAP Next Generation Internships 2021

Project Offerings

Qualitative Analysis of Interviews to Identify Drivers of HIV-Testing and HIV-Care Utilization in Target Populations in Kenya	3
Pilot Study on Daily PrEP Uptake and Adherence of Fisherfolk Community in Kenya	4
Conducting Community Surveillance for COVID-19 in Lesotho	5
Qualitative Analysis of PROvide MIner-friendly SERVICES for Integrated TB/HIV Care in Lesotho (PROMISE) Study.....	6
A Combination Intervention Strategy to Improve Health Outcomes for Adolescents Living with HIV (CombinADO) in Mozambique	7
Population-based HIV Impact Assessment (PHIA) Survey Data Management in Mozambique	8
Impact of Climate Change and the COVID-19 Epidemic on Health Systems Resilience in Mozambique	9
Research on Impact of Climate Change on HIV and Other Infectious Disease in Mozambique	10
Obesogenic Origins of Maternal and Child Metabolic Health Involving Dolutegravir (ORCHID), South Africa ...	11
Addressing Gaps in Cascade of Care for Displaced Persons in South America focusing on Venezuelan Migrant Population.....	12
Bio-behavioral Survey of Key Populations in Zambia, Quantitative Analysis	13
Bio-behavioral Survey of Key Populations in Zambia, Qualitative Analysis	14
Strengthening Epidemiology and Strategic Information in the Republic of Zimbabwe	15
ICAP 2030 Strategic Plan to Diversify and Expand Donor Portfolio	16
Population-based HIV Impact Assessment (PHIA) Survey Data Analysis	17
Strategic Information and Curriculum Curation in the One Health Network	18
SARS-CoV-2 Impact on Lives and Views of Elderly Residents in New York City	19

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Practicum Opportunity: Qualitative Analysis of Interviews to Identify Drivers of HIV-Testing and HIV-Care Utilization in Target Populations in Kenya



Mentor Dr. Joanne Mantell, Professor of Medical Psychology

Internship Focus Qualitative data analysis, HIV-testing, linkage to care

Duration 3 to 6 months- June to August/December

Location Remote

Required Skills

- Strong writing skills
- Prior experience in with qualitative data analysis

Patient Centered Care Project (PCCP) Description

The goal of PCCP was to identify the factors that are most relevant, salient, and influential to uptake and use of HIV-testing and uptake of HIV-care among those testing positive in most affected populations in western Kenya (MSM, young women, and heterosexual men within and outside of fishing communities).

The PCCP explored experiences, beliefs, resources, and factors influencing use of HIV-testing and linkage/early retention in HIV-care in three general cohorts: (1) HIV-negative/status unknown individuals, (2) HIV-positive individuals in care, and (3) HIV-positive individuals not in care. These three cohorts targeted our investigation to the groups of individuals that are the desired potential or current users of HIV-testing and care services.

Identification of relevant facilitators and barriers from the perspectives of end-users and deliverers of services will accelerate efforts to mobilize communities and systems offering HIV testing and care through allocation of targeted resources to optimize strengths and bridge existing gaps. The most significant facilitators have been found to be community-based HIV testing and counselling, interactions with peer mentors, social support, decentralization of HIV care, knowing someone who is suffering from or died from HIV, disclosure of HIV status to others, high perceived risk, HIV knowledge, and the integration of antenatal and HIV care. In terms of barriers, person and community factors identified include HIV-related stigma and low HIV knowledge. Among those living with HIV, fear of social and economic repercussions from disclosure of HIV status, medical mistrust and negative healthcare experiences have been identified as influencing linkage and retention in HIV-care.

Intern Activities

Intern activities include:

- Synthesize coded qualitative data
- Assist in the writing of manuscripts.
- Co-authorship of paper(s)
- Other duties as assigned by NY mentor

Practicum Opportunity: Pilot Study on Daily PrEP Uptake and Adherence of Fisherfolk Community in Kenya



Mentor Dr. Julie Franks, Research/Technical Advisor

Internship Focus PrEP, adherence, risk-related behavior, data analysis

Duration 3 months- June to August

Location Remote

Required Skills

- Strong writing and analysis skills
- Demonstrate strong skills in data management, analysis, statistics, or related fields

ICAP Kenya Project Description

To address the high prevalence of HIV among fisherfolk in western Kenya, ICAP is conducting a pilot study of an intervention to support use of daily oral pre-exposure prophylaxis (PrEP) to prevent HIV acquisition. The Jihami (“Be strong!” in Kiswahili) intervention is tailored to the fisherfolk population and includes HIV self-testing to confirm HIV-negative status and objective feedback on adherence through a validated point of care test of PrEP drug levels in urine. Sixty participants will be enrolled and followed at one three-, and six-months post enrollment to assess PrEP adherence and HIV risk-related behavior, knowledge and attitudes. The primary outcome to be analyzed is adherence to PrEP as determined by plasma drug levels at 6 months. Secondary outcomes analyzed will include uptake of PrEP; concordance of PrEP adherence estimated through urine analysis and blood levels at 6 months; and baseline and follow up HIV risk-related behavior, knowledge, and attitudes.

Intern Activities

Intern activities include:

- Lead data cleaning
- Collaborate in data analysis plan
- Conduct quantitative and/or qualitative analysis
- Aid in interpretation of analysis
- Other duties as assigned by the NY mentors

Practicum Opportunity: Conducting Community Surveillance for COVID-19 in Lesotho



Mentor Dr. Abigail Greenleaf, Technical Specialist

Internship Focus COVID-19, surveillance

Duration 3 months-June to August

Location Remote

Required Skills

- Interest in survey research and data quality analysis
- Proficiency in R, STATA or SAS

ICAP Lesotho Project Description

This project is an innovative approach to conducting community surveillance for COVID-19 in Lesotho, a country in Southern Africa. Surveillance systems in Lesotho are fragile and may struggle to capture the spread of the virus due to infrastructure limitations or because patients may not present to health facilities. By calling respondents who participated in a recent Population-Based HIV Impact Assessment (PHIA), a nationally representative survey in Lesotho consisting of a sample of 15,342 adults who completed a questionnaire and provided blood specimens, ICAP is generating near-real time data for use by the Lesotho Ministry of Health to assess pandemic activity and inform resource allocation. Interviewers who previously worked for PHIA call respondents weekly to ask about the respondent's health and the health of members of their household to track the impact of COVID-19. The aim of this surveillance system is to track COVID-19 symptoms in near real-time in Lesotho.

Intern Activities

Intern activities include:

- Conduct analysis using the data collected weekly to assess trends such as:
 - Impact of incentive on response rate
 - Attrition among socio-demographic age groups
 - Interviewer effects (the impact of an interviewer on response rates, the impact of interviewer characteristics such as gender and age on response rates)
 - Measurement error (reporting of symptoms for self versus household members)

Practicum Opportunity: Qualitative Analysis of PROvide MIner-friendly Services for Integrated TB/HIV Care in Lesotho (PROMISE) Study



Mentor Yael Hirsch-Moverman, Research/Technical Advisor, and Joanne Mantell, Research Scientist (NYS Psychiatric Institute) and Professor of Clinical Psychology (in Psychiatry)

Internship Focus Qualitative data analysis, key populations

Duration 3 months beginning Spring 2021

Location Remote

Required Skills

- Excellent analytical, organizational, and oral/written communication skills
- Interest in qualitative data coding and analysis (experience preferred)

ICAP Lesotho Project Description

In partnership with the Ministry of Health and the US Centers for Disease Control and Prevention (CDC), ICAP at Columbia University is conducting a mixed methods implementation science study entitled “PROvide MIner-friendly Services for Integrated TB/HIV Care in Lesotho (PROMISE) Study.” The study will assess the effectiveness, feasibility, and acceptability of integrated TB/HIV services for migrant miners and their family members provided in miner-friendly service venues, compared to public sector health facilities, which will deliver usual integrated care for management of TB and HIV. Components of the miner-friendly intervention include TB/HIV education and adherence counseling by lay counselors, adherence support using short message service (SMS) text messaging, and a menu of options for miners unable to visit the clinic on a monthly basis for medication refills. The study was conducted in five health facilities in Maseru, Leribe and Mafeteng districts in Lesotho.

The purpose of the practicum is to assist the PROMISE team with coding and analysis of qualitative data from the study, and development of dissemination materials.

Intern Activities

Intern activities include:

- Conduct coding and analysis of qualitative data from in-depth interviews
- Participate in study team calls/meetings to discuss progress and findings
- Collaborate on the development of manuscripts and presentations
- Other duties as assigned by mentors

Practicum Opportunity: A Combination Intervention Strategy to Improve Health Outcomes for Adolescents Living with HIV (CombinADO) in Mozambique



Mentor Drs. Elaine Abrams, Senior Research Director, and Joana Falco, CombinADO Research Coordinator

Internship Focus HIV and adolescents, implementation science, randomized control trial

Duration 3 months- June to August

Location Remote

Required Skills

- Ability to speak and read Portuguese strongly preferred
- Experience conducting health-related research in resource limited setting

ICAP Mozambique Project Description

Funded by NIH, the CombinADO project aims to improve retention, adherence, and viral suppression among adolescents living with HIV in Nampula Province, Mozambique. Phase 1 (2018-2020) of the project blended implementation science methods (quantitative surveys, qualitative interviews) with a human-centered design approach, under which end-users and stakeholders participated in an intensive, iterative process of testing and refinement to develop a multi-component intervention strategy. During Phase 2 (2020-2023) the team will conduct a clinic-level cluster randomized controlled trial at 12 sites in Nampula Province (1,200 participants) to compare an optimized standard of care, featuring selected clinic and community level interventions developed during Phase 1, with the enhanced CombinADO strategy that also includes mental health services, peer navigation support, and peer support groups.

As Phase 2 of the project will begin near the beginning of the internship, the details of a specific scope of work to be developed with student in line with experience and interests.

Sample Intern Activities

Intern activities will be further developed but will include:

- Qualitative and/or quantitative data analysis
- Supporting implementation of randomized control trial
- Any duties or deliverable additionally identified by mentors and project lead

Practicum Opportunity: Population-based HIV Impact Assessment (PHIA) Survey Data Management in Mozambique



Mentor Melissa Metz, Data Management Lead, Shannon Farley, Strategic Information Director, and Olivier Koole, Mozambique PHIA Project Director

Internship Focus Data analysis, data management, informatics, strategic information

Duration 6 months- June to December

Location Remote

Required Skills

- Statistical analysis experience
- Experience using Stata, SAS, R, GIS or other analytical software
- Previous experience writing research publications a plus

ICAP Mozambique Project Description

The PHIA Project, led by ICAP at Columbia University in partnership with the US Centers for Disease Control and Prevention (CDC), measures the reach and impact of HIV programs in PEPFAR-supported countries through national surveys. Each population-based HIV impact assessment (PHIA) survey offers participants household-based HIV counseling and testing conducted by trained survey staff, with return of results. The surveys also ask questions about access to preventive care and treatment services for adults and children. The results will measure national and regional progress towards global targets and guide HIV policy and funding priorities. More information on PHIA can be found at this link.

The internship will focus on supporting the PHIA project's data management team in return of results, data cleaning, investigation of new technologies, documentation, and analysis of data collected through the surveys including PHIA and other datasets under the mentorship of Data Management and Informatics Lead and Strategic Information Director. Potential analytical methods will vary.

Intern Activities

Intern activities include:

- Run and improve reports for return of participant lab results,
- Assist with dataset cleaning and management, conduct basic data analyses, summarize data in written format for reporting.
- Meet weekly or bi-weekly with research mentor on progress of project status
- Support report generation for CDC and other partners as needed
- Assist with prompt review of all data queries and resolution,
- Other duties as assigned by the Data Management and Informatics Lead, Strategic Information Director, and other investigators

Practicum Opportunity: Impact of Climate Change and the COVID-19 Epidemic on Health Systems Resilience in Mozambique



Mentor Dr. Andrea Low, Scientific and Clinical Director, and Mirriah Vitale, Mozambique Country Director

Internship Focus Climate change, COVID-19, qualitative and quantitative data analysis

Duration 3 months- June to August

Location Remote

Required Skills

- Experience with qualitative studies, including design of in-depth interviews and focus group discussions
- Experience with or interest in health system evaluation and climate change mitigation
- Fluency in Portuguese or other romance language a plus
- Previous experience writing research publications a plus

ICAP Mozambique Project Description

Following two catastrophic cyclones and a global pandemic—and in an effort to strengthen Mozambique’s response to future disasters—ICAP will conduct a post-disaster review of local and national responses to the recent cyclones, as well as a situational analysis of areas most impacted by the disasters, in partnership with the Earth Institute. This project also includes an array of COVID-19 related questions to evaluate how the epidemic has affected communities in Mozambique. A comprehensive emergency preparedness and response plan will be developed by ICAP and will include distilled lessons learned and recommendations to inform future national strategies and responses in Mozambique and case studies tailored for national leadership. The initiative will serve as a model to inform other countries in the region as they plan for similar threats.

Position Overview

The internship will focus on assisting with the second phase of the S4S project, including an analysis of qualitative and quantitative data on the review of health system resilience to climate change and the COVID-19 epidemic, and a mapping survey of current activities in this area. The intern will also be invited to assist with development of a preliminary report of the data.

Intern Activities

Intern activities include:

- Assist with analysis of quantitative Qualtrics data
- Assisting with analysis of the qualitative (focus group discussion, in depth interview) data
- Preparation of interim report,
- Other duties as assigned by the Clinical and Scientific Director and other investigators.

Practicum Opportunity: Research on Impact of Climate Change on HIV and Other Infectious Disease



Mentor Thomas Carpino, Survey Coordinator, and Dr. Andrea Low, Scientific and Clinical Director

Internship Focus Climate change, data analysis, spatial epidemiology

Duration 3 months- June to August

Location Remote

Required Skills

- Experience with statistical analysis and strong analytical skills
- Experience with or interest in spatial epidemiology using mapping software such as GIS or QGIS
- Analysis using STATA, SAS, R, or other analytical software a plus

ICAP Mozambique Project Description

The PHIA Project, led by ICAP at Columbia University in partnership with the US Centers for Disease Control and Prevention (CDC), measures the reach and impact of HIV programs in PEPFAR-supported countries through national surveys. Through the PHIA project, research was conducted on the association of severe drought and HIV prevention and care behaviors. Building on this framework, ICAP researched the associations of drought and flooding in HIV related behaviors and consequences in Mozambique. Based on this work, the 2020 Solutions for Sustainability (S4S) collaboration with the Earth Institute evaluates consequences of shocks on the health system in Mozambique including cyclones and COVID-19. The practicum will focus on supporting students in researching questions tailored on climate change and/or climate shocks as it relates to HIV and other infectious diseases. The student(s) will support the burgeoning research to analyze publicly available data collected through the surveys including S4S, DHS, PHIA and other datasets under the mentorship of Survey Coordinator and/or Clinical and Research Director. Potential analytical methods can include: applied linear regression, geospatial analyses, latent variable and structural equation modeling (LVSEM), and more.

Intern Activities

Intern activities include:

- Identify research and project topic in collaboration with mentor on topics ranging from: climate change, climate shocks, health system capacity, HIV, enteric disease, key populations, and more.
- Use a data analytics tool such as STATA, SAS, SPSS, or R
- Use of geospatial tool such as GIS or QGIS
- Assist with prompt review of all data queries and resolution,
- Other duties as assigned by the Survey Coordinator, Clinical and Research Director, and other investigators
- Complete final deliverable: final paper for journal article submission including data analysis

Practicum Opportunity: Obesogenic Origins of Maternal and Child Metabolic Health Involving Dolutegravir (ORCHID), South Africa



Mentor Dr. Elaine Abrams, Senior Research Director

Internship Focus Maternal and child health, ARV, clinical trials

Duration 3 months-June to August

Location Remote

Required Skills

- Interest in maternal and child health
- Experience conducting research in a resource-limited setting

ICAP South Africa Project Description

Funded by the NIH, the ORCHID study investigates maternal use of dolutegravir (DTG) – associated with greater weight and adipose gain than other ARVs – including the impact of DTG in pregnancy and its downstream obesogenic effects on the metabolic health of women living with HIV and their children, compared to women without HIV and their children. The prospective cohort study will be conducted at two sites in Cape Town and begin enrolling participants in April 2021. It will follow a main cohort of 1,900 pregnant women ages 16-45 years (633 initiating DTG in pregnancy, 633 continuing DTG use from pre-pregnancy, and 633 without HIV), from their first antenatal care visit through delivery and then to 24 months postpartum along with their children. Data will provide key insights to shape metabolic disease risk reduction interventions to optimize HIV treatment and reduce chronic co-morbidities over the life course for women living with HIV and their children.

Intern Activities

Intern activities include:

- Qualitative and/or quantitative data analysis
- Supporting implementation of randomized control trial
- Any duties or deliverable additionally identified by mentors and project lead

As this study is in its beginning phases, the details of a specific scope of work to be developed with student in line with experience and interests.

Practicum Opportunity: Addressing Gaps in Cascade of Care for Displaced Persons in South America focusing on Venezuelan Migrant Population



Mentor Maria Lahuerta, Deputy Director, Strategic Information Unit

Internship Focus Forced migration, literature reviews, monitoring and evaluation

Duration 3 months- June to August

Location Remote

Required Skills

- Fluency in Spanish
- Experience in forced migration and health promotion preferred

Project Description

Venezuela's political and economic crisis led to the largest recorded population displacement in Latin America, with more than 4.8 million Venezuelans estimated to have left the country as of February 2019. The generalized breakdown of health services, including widespread shortages of HIV antiretroviral medications, laboratory, and prevention services, have especially driven Venezuelans living with HIV to flee. Latin American countries with Venezuelan migrant populations face significant knowledge gaps in their situation, hampering efforts to update their national HIV strategies to include new challenges to reach epidemic control. Addressing the critical gaps in new case identification, retention in care and viral load (VL) suppression will help to improve the cascade of care for this specific population.

In response to this crisis, ICAP at Columbia University will work closely with the Ministries of Health in Peru and Colombia to:

1. Procure relevant supplies to fill the gaps, including condoms, HIV test kits and antiretroviral treatment
2. Provide technical assistance on the updating of national guidelines to transition optimized ARV regimens
3. Support remote trainings to healthcare workers, community workers, and volunteers

Intern Activities

Intern activities include:

- Participates in routine project calls with ICAP, CDC and MOH
- Supports the adaptation of HIV training, standard operating procedures and materials to the Peru and Colombian context
- Support monitoring and evaluation needs of the South America and Central America projects
- Support report writing
- Conducts literature review of the current situation of Venezuelan migrants living with HIV in Peru and Colombia
- Supports other Strategic Information activities, as needed

Practicum Opportunity: Bio-behavioral Survey of Key Populations in Zambia, Quantitative Analysis



Mentor Lauren Parmley, Strategic Information Specialist, and Lazarus Chelu, Project Director

Internship Focus Surveillance, survey development, quantitative data analysis, key populations

Duration 3 months- June to August

Location Remote

Required Skills

- Prior experience in research, especially in infectious disease research or surveys
- Demonstrate strong skills in data management, analysis, statistics, or related fields
- Proficient in SAS and/or other statistical software

ICAP Zambia Project Description

For the last three years, ICAP has provided technical assistance to the Zambia National HIV/AIDS/STI/TB Council (NAC) and Ministry of Health (MOH) in strategic planning for key populations (KP) and sustainable surveillance systems to understand the HIV epidemic among KP. The aim of this work is to increase access and utilization of evidence-based, tailored, and comprehensive HIV prevention, care, and treatment services for KP.

As part of this work, ICAP is conducting a biobehavioral survey (BBS) to measure the prevalence of HIV/STIs and risk behaviors among KP including female sex workers (FSW), men who have sex with men (MSM), and people who inject drugs (PWID), estimate their population size, and gauge progress toward reaching global targets (UNAID's 95-95-95 targets) in several cities across Zambia.

Intern Activities

Intern activities include:

- Assist with data set cleaning and data management (MSM/PWID BBS)
- Support and/or conduct data analysis using RDS-Analyst, SAS, and/or other statistical software (MSM/PWID BBS)
- Summarize data for BBS summary sheets and final reports (MSM/PWID BBS)
- Support project start-up for the FSW BBS including adapting standard operating procedures and training materials for formative assessments, BBS, and population size estimation methods and piloting and programming tools
- Support Institutional Review Board modification submissions as necessary
- Attend weekly BBS technical working group calls
- Other duties as assigned by mentor

Practicum Opportunity: Bio-behavioral Survey of Key Populations in Zambia, Qualitative Analysis



Mentor Lauren Parmley, Strategic Information Specialist, and Lazarus Chelu, Project Director

Internship Focus Surveillance, survey development, qualitative data analysis, key populations

Duration 3 months- April to June

Location Remote

Required Skills

- Prior experience in research, especially in infectious disease research or surveys
- Demonstrate strong skills in data management, analysis, statistics, or related fields
- Proficient in SAS and/or other statistical software

ICAP Zambia Project Description

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Intern Activities

Intern activities include:

- Analyze qualitative data collected through the formative assessment (MSM/PWID)
- Draft summary report, abstracts, and/or manuscripts for publication based on qualitative findings (MSM/PWID)
- Support other activities related to the BBS with MSM/PWID, including drafting standard operating procedures (SOPs) and training materials; assisting with data set cleaning and data management; supporting data analysis using RDS-Analyst, SAS, and/or other statistical software; summarizing data for BBS summary sheets and final reports
- Support Institutional Review Board modification submissions as necessary
- Attend weekly BBS technical working group calls
- Other duties as assigned by the NY mentors

Practicum Opportunity: Strengthening Epidemiology and Strategic Information in the Republic of Zimbabwe



Mentor Dr. Tiffany Harris, Director of Strategic Information and Associate Professor of Epidemiology

Internship Focus Strategic information, surveillance, monitoring and evaluation

Duration 3 months- June to August
6 month- June to December

Location Remote

Required Skills

- Prior experience in research, especially in infectious disease research or surveys
- Demonstrate strong skills in data management, analysis, statistics, or related fields
- Proficient in SAS and/or other statistical software

ICAP Zimbabwe Project Description

ICAP at Columbia University began implementing the *Strengthening Epidemiology and Strategic Information in the Republic of Zimbabwe* under the President's Emergency Plan for AIDS Relief project in September 2016, with the goal of strengthening the capacity of individuals, institutions and the overall health system in Zimbabwe, and to develop and maintain a national, evidence-based HIV response through comprehensive, integrated and accessible strategic information (SI). The project objectives are to:

1. Enhance the ability of national institutions to plan and coordinate SI activities
2. Strengthen systems to monitor and evaluate the coverage, quality and effectiveness of the national HIV response
3. Improve systems to plan, conduct and implement comprehensive, high-quality surveys and surveillance to quantify and characterize the HIV epidemic
4. Strengthen human resources to support country ownership of sustainable SI activities

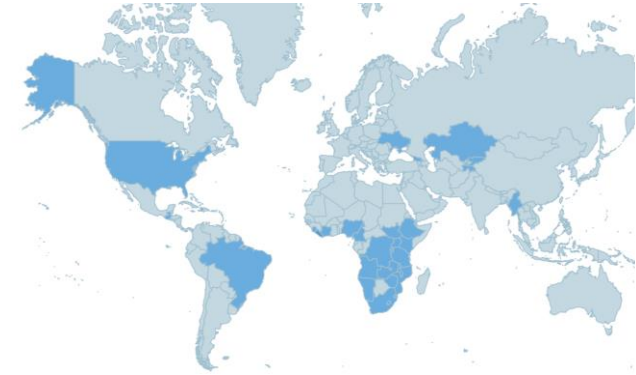
As part of this project, ICAP is implementing a survey to estimate the burden of disability among people living with HIV in Zimbabwe as well as several COVID-19-related activities including a rapid mortality surveillance system and a national SARS-CoV-2 seroprevalence survey.

Intern Activities

Intern activities include:

- Develop and/or adapt standard operating procedures and training materials
- Pilot and program data collection tools
- Assist with data set cleaning and data management
- Support and/or conduct data analysis using SAS and/or other statistical software
- Summarize data for summary sheets and final reports
- Support Institutional Review Board modification submissions as necessary
- Attend bi-weekly technical working group calls
- Other duties as assigned by the NY mentors

Practicum Opportunity: ICAP 2030 Strategic Plan to Diversify and Expand Donor Portfolio



Mentor Sarah Parish, Director of Planning and Development

Internship Focus Project management, partnerships and development, donor outreach and engagement

Duration 3 months- June to August

Location Remote

Required Skills

- Experience with project planning and management, preferably with projects of an international nature
- Interest in fundraising and/or strategic planning

ICAP 2030 Project Description

In line with ICAP2030 (ICAP's ten-year strategic plan), we have identified priority activities to secure and sustain new funding that support ICAP's mission and position as a leader in global health. This includes diversifying our funding portfolio by engaging new private and corporate donors in two priority countries. Working with P&D and two country directors, the student will manage a 2-3-month project to design and implement a targeted plan to identify and engage new donors in each country. Working with the Partnerships & Development (P&D) team, the student will support a strategic and dynamic initiative to diversify ICAP's donor portfolio.

Intern Activities

Intern activities include:

- Collaboration with the country directors to conduct an analysis of the funding landscape
- Research donors, assess potential donors, develop targeted plans for each donor,
- Engage donors, as appropriate, including drafting emails, joining introduction calls, etc.
- Presentation of potential donors, status of engagement, and plan for future /continued engagement.
- Other duties as assigned by NY mentor

Practicum Opportunity: Population-based HIV Impact Assessment (PHIA) Survey Data Analysis



Internship Focus Data analysis, surveys, HIV research

Mentor Dr. Andrea Low, Scientific and Clinical Director, and Thomas Carpino, Survey Coordinator

Duration 3 months- June to August

Location Remote

Required Skills

- Experience with statistical analysis and strong analytical skills
- Experience with or interest in HIV prevention, global health, research design treatment and and/or health policies
- Analysis using STATA, SAS, R, or other analytical software a plus.

ICAP PHIA Project Description

The PHIA Project, led by ICAP at Columbia University in partnership with the US Centers for Disease Control and Prevention (CDC), measures the reach and impact of HIV programs in PEPFAR-supported countries through national surveys. Each population-based HIV impact assessment (PHIA) survey offers participants household-based HIV counseling and testing conducted by trained survey staff, with return of results. The surveys also ask questions about access to preventive care and treatment services for adults and children. The results will measure national and regional progress toward UNAIDS' 90-90-90 goals and guide HIV policy and funding priorities. More information on PHIA can be found at [this link](#).

Position Overview The practicum will focus on supporting students in developing their own research questions and interests and support the PHIA's research and regulatory team to analyze publicly available data collected through the surveys including PHIA and other datasets under the mentorship of Survey Coordinator and/or Clinical and Research Director. Potential analytical methods can include: applied linear regression, geospatial analyses, latent variable and structural equation modeling (LVSEM), and more.

Intern Activities

Intern activities include:

- Identify research and project topic in collaboration with mentor on topics ranging from: HIV co-infections, behavioral risk factors, viral load suppression, accessibility models, climate change, health system capacity, key populations, and more.
- Use a data analytics tool such as STATA, SAS, GIS, or R
- Support report generation for CDC and other partners as needed
- Assist with prompt review of all data queries and resolution,
- Other duties as assigned by the Survey Coordinator, Clinical and Research Director, and other investigators
- Complete final deliverable: final paper for journal article submission including data analysis

Practicum Opportunity: Strategic Information and Curriculum Curation in the One Health Network



Mentor Rick Mitchell, Director of Informatics

Internship Focus One Health, data collection, workforce development

Duration 3 months- June to August

Location Remote

Required Skills

- Proficiency in SAS, R or related programming languages
- Experience working with data to create graphs, tables and reports
- Experience with online data collection

One Health Project Description

The overarching goals of this project are to empower South East Asian One Health University Network (SEAOHUN), African One Health University Network (AFROHUN) and their member universities to develop and deliver sustainable training and programs that equip current and future professionals with multisectoral skills and competencies to address complex health issues, including zoonotic and antimicrobial resistant threats. OHW-NG will build on the university network infrastructure, partnerships, and achievements of the last decade to address the workforce needs of national ministries and the private sector while strengthening the operational capacities of the regional university network. The student will assist the Center within the Strategic Information Unit to collect, manage, and report on data from three potential solutions including (1) an alumni tracking database, (2) a “Smart Library,” and (3) a curriculum curation database.

Intern Activities

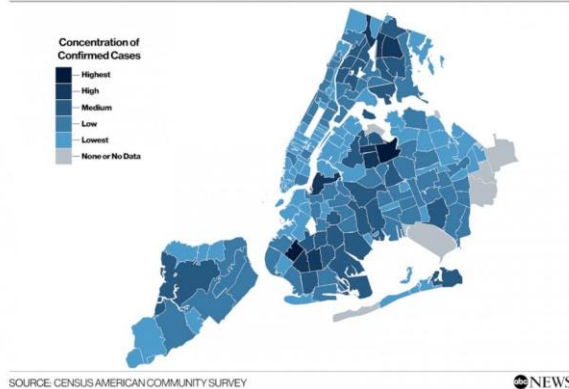
Intern activities include:

- Data collection activities
- Management/maintenance of data collected in the alumni tracking database,
- "Smart Library," and curriculum curation database
- Assist in the development of reports summarizing data
- Assist in the writing of documentation of the use of these systems
- Other tasks as needed or identified by mentor

Practicum Opportunity: SARS-CoV-2 Impact on Lives and Views of Elderly Residents in New York City

Concentration of COVID-19 Cases

BY NYC ZIP CODE



Mentor Dr. Abigail Greenleaf, Technical Specialist

Internship Focus COVID-19, Surveys, data analysis

Duration 3 months- June to August

Location Remote

Required Skills

- Statistical analysis experience
- Experience using Stata, SAS, R, GIS or other analytical software
- Previous experience writing research publications a plus

ICAP SILVER Project Description

The COVID-19 pandemic, caused by SARS-CoV-2, has resulted in over 225,000 deaths in the United States, of which over 24,000 were reported from New York City (NYC). The elderly population has been noted to be particularly vulnerable to infection as well as to experience higher morbidity and mortality from COVID-19. The *SARS-CoV-2 Impact on Lives and Views of Elderly Residents (SILVER)* aims to collect comprehensive data about the effects of the COVID-19 pandemic on older NYC residents. The phone-based survey offers a simple and accessible approach to data collection from among the most vulnerable of NYC residents in the safety and convenience of their home.

The overall purpose of the study is to assess the impact of COVID-19 on the lives and well-being of elderly populations in NYC by conducting surveillance of their present experiences and insights during the COVID-19 pandemic with the goal of shaping an effective response to their needs. The primary objective is to estimate the prevalence of depressive symptoms. Secondary objectives include estimating prevalence of prior or current COVID-19 diagnosis; prevalence of COVID-19-related economic and social challenges; adoption of non-pharmacological interventions recommended for SARS-CoV-2 infection prevention and control; clinical and social needs and issues related to access to health services; change over time in various parameters and relation to concurrent status of COVID-19 epidemic in NYC; association between various socio-demographic characteristics and depressive symptoms.

Intern Activities

Intern activities include:

- Analyze data including responding to primary and secondary objectives
- Develop written analysis for both white papers and publication
- Other duties identified by mentor