SOPHAS 2024-2025

Georgia Southern University Jiann-Ping Hsu College of Public Health

Hasan, Mohammad Nayeem
Applicant ID 2759414159

Biostatistics

Application Status **Received**

BIOGRAPHIC INFORMATION

PROFILE

Legal First Name:	Mohammad Nayeem	Materials Under Another Name:	No
Middle Name:	—	Former First Name:	—
Last Name:	Hasan	Former Middle Name:	—
Suffix:	—	Former Last Name:	—
Sex:	MALE	My First Name:	—
		My Middle Name:	—

BIRTH INFORMATION

Date of Birth:	01-15-1994
City:	Cumilla
County:	N/A
State:	Cumilla
Country:	Bangladesh

CONTACT INFORMATION

Address Type:	Current	Address Type:	Permanent
Address:	1st floor, Rahib Mansion, Uttar Dikkul Cox's Bazar Sadar, Cox's Bazar 4700	Address:	1st floor, Rahib Mansion, Uttar Dikkul Cox's Bazar Sadar, Cox's Bazar 4700
County:	N/A	County:	N/A
Country:	Bangladesh	Country:	Bangladesh
Valid Until Date:			

Preferred Phone Number   +8801671912637   **Type:**   Mobile

Email: nayeem5847@gmail.com   **Type:**   Home

CITIZENSHIP STATUS AND RESIDENCY INFORMATION

CITIZENSHIP STATUS

Citizenship Status:	Non Resident	State of Residence:	International
Country of Citizenship:	Bangladesh	County of Residence:	N/A
Other Citizenship:	—	Length of Residence:	—
Length of stay in US:	—		

RACE/ETHNICITY

Do you consider yourself to be of Hispanic/Latino origin?

Answer: No

American Indian or Alaska Native	—
Asian	Yes
Other Asian :	✔
Other:	Bangladeshi
Black or African American	—
Native Hawaiian or other Pacific Islander	—
White	—

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BIOGRAPHIC INFORMATION CONTINUED

FAMILY INFORMATION

Mother

First Name:	Ferdausi	County:	N/A
Last Name:	Begum	State/Province:	International
Relationship to Applicant:	Mother	Highest Education Level:	Less than high school
Country of Residence:	Other	Living:	Yes
		Occupation:	Unemployed
		Gender or Sex:	FEMALE
		Highest Education School Name:	—
		Living in HouseHold:	Yes
		People in HouseHold:	4

OTHER INFORMATION

Native Language: Bengali

Background Information

- I am from a family that lives in an area that is designated as a Health Professional Shortage Area or a Medically Underserved Area.
- I am from a school district where 50% or less of graduates go to college or where college education is not encouraged.
- I am the first generation in my family to attend college(neither my mother nor my father attended college).
- English is not my primary language.

Your parent's family income falls within the table's guidelines and you are considered to have met the criteria for economically disadvantaged:

Answer: No

What is your geographic area?

Answer: Urban(1,000,000 population)

Have you ever been disciplined for student conduct violations (e.g. academic probation, dismissal, suspension, disqualification, etc.) by any college or school?

Answer: No

Have you ever been disciplined for academic performance (e.g. academic probation, dismissal, suspension, disqualification, etc.) by any college or school?

Answer: No

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ACADEMIC HISTORY

HIGH SCHOOL GRADUATION STATUS

Type:	High School Diploma	Date Received:	12/2012

HIGH SCHOOL ATTENDED

Name	Location	Dates Attended	Graduated	Homeschool
Milestone	DHAKA, BD-C, BG	01/2010 - 12/2012	Yes	No

STANDARDIZED TESTS

UNOFFICIAL GRE

Date	ETS Registration Code	Verbal	Quantitative	Analytical Writing
10-15-2020	8123717	136 5%	153 39%	3.0 15%

UNOFFICIAL IELTS

Date	Candidate Number	TRF Number	Listening Band	Reading Band	Speaking Band	Writing Band	Overall Band
11-09-2023	052384	23BD052384HASM001A	6.5	7.0	6.5	5.5	6.5

COLLEGES ATTENDED

444444 SHAHJALAL UNIVERSITY OF SCIENCE AND TECHNOLOGY, SYLHET

Start Date:	01-2013	Still Current:	No
End Date:	06-2018	Primary:	No
State:	—	Tuition:	In-State Tuition

Major	2nd Major/Minor	Status	Degree Verified	Degree Name	Degree Date
Statistics	Computer Science and Engineering / —	Degree Awarded	No	Bachelor of Science	05-2018
Statistics	Computer Science and Engineering / —	Degree Awarded	No	Master of Science	09-2019

OFFICIAL WES GPA

GPA Type	GPA	Hours
Undergraduate	3.43	168.00
Graduate	3.59	25.00

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SUPPORTING INFORMATION

EXPERIENCE

* Experience Type:	Employment	**Experience Dates:**	02-19-2023/ Current
Recognition Type:	Compensated	**Status:**	Full-time
Title:	Monitoring and Evaluation Officer (Health)	**Hours per Week:**	40
		Total Weeks:	80
Employer:	Community Partners International Cox's Bazar Cox's Bazar Bangladesh	**Total Hours:**	3200
		Experience Details:	Participating in monitoring, evaluation, and research activities
Supervisor:	Md. Abul Bashar Country Representative, Bangladesh +8801729926877 abulbashar@cpintl.org	**Permit to Contact:**	Yes

* Experience Type:	Employment	**Experience Dates:**	03-01-2022/02-17-2023
Recognition Type:	Compensated	**Status:**	Full-time
Title:	HIS Officer	**Hours per Week:**	40
Employer:	Food for the Hungry Cox's Bazar Cox's Bazar Bangladesh	**Total Weeks:**	50
		Total Hours:	2000
		Experience Details:	Preparing and submitting all types of qualitative and quantitative health facility reports
Supervisor:	Mong Kya Sing Marma HIS Lead +8801847323282 mksmarma@fh.org	**Permit to Contact:**	Yes

* Experience Type:	Employment	**Experience Dates:**	02-01-2021/02-28-2022
Recognition Type:	Compensated	**Status:**	Full-time
Title:	Management Information System Officer	**Hours per Week:**	40
Employer:	Partners in Health & Development Cox's Bazar Cox's Bazar Bangladesh	**Total Weeks:**	50
		Total Hours:	2000
		Experience Details:	Participating in monitoring, designing, and assessing health projects
Supervisor:	Pankaj Paul Project Coordinator +8801717443773 dr.paulpankaj@gmail.com	**Permit to Contact:**	Yes

* Experience Type:	Research	**Experience Dates:**	07-01-2017/12-31-2020
Recognition Type:	Compensated	**Status:**	Part-time
Title:	Research Assistant	**Hours per Week:**	25
Employer:	Shahjalal University Science and Technology Akhalia, Sylhet Sylhet Bangladesh	**Total Weeks:**	5
		Total Hours:	125
		Experience Details:	Ground Water in the Vicinity of Sylhet City, Bangladesh: Assessment of Quality and Association Based on Multivariate Statistical Techniques, Sponsored by University Research Centre (URC), SUST, Sylhet, Bangladesh
Supervisor:	Dr. Md Zakir Hossain Professor, Department of Statistics mzh-sta@sust.edu	**Permit to Contact:**	Yes

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SUPPORTING INFORMATION CONTINUED

ACHIEVEMENTS

PUBLICATIONS

Name:	Global Landmark: 2023 Marks t ...	**Description:**
Organization:	IJID Regions	Objectives
Date:	09-26-2024	In 2023, the world experienced the worst dengue virus (DENV) outbreak on record. This study aims to identify global regions and continents with a high burden of Dengue in 2023.

* PUBLICATIONS

Name:	Rabies control in Bangladesh ...	**Description:**
Organization:	The Lancet Regional Health - ...	Background
Date:	07-23-2024	Bangladesh is making progress toward achieving zero dog-mediated rabies deaths by 2030, a global goal set in 2015.

PUBLICATIONS

Name:	Deep Learning Based Forecasti ...	**Description:**
Organization:	IEEE	In 2023, Bangladesh experienced its most severe dengue outbreak since 2000, necessitating improved prediction methods. This study employs diverse machine-learning techniques to forecast dengue fever occurrences in Bangladesh, aiming for enhanced accuracy and proactive public health measures.
Date:	06-21-2024	

* PUBLICATIONS

Name:	Two decades of endemic dengue ...	**Description:**
Organization:	J Med Entomol	The objectives of this study were to compare dengue virus (DENV) cases, deaths, case-fatality ratio [CFR], and meteorological parameters between the first and the recent decades of this century (2000–2010 vs. 2011–2022) and to describe the trends, seasonality, and impact of change of temperature and rainfall patterns on transmission dynamics of dengue in Bangladesh.
Date:	01-22-2024	

PUBLICATIONS

Name:	The 2022 dengue outbreak in B ...	**Description:**
Organization:	Journal of Medical Entomology	Bangladesh reported the highest number of annual deaths (n = 281) related to dengue virus infection in 2022 since the virus reappeared in the country in 2000. Earlier studies showed that >92% of the annual cases occurred between the months of August and September. The 2022 outbreak is characterized by late onset of dengue cases with unusually higher deaths in colder months, that is, October–December. Here we present possible hypotheses and explanations for this late resurgence of dengue cases. First, in 2022, the rainfall started late in the season. Compared to the monthly average rainfall for
Date:	05-01-2023	

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SUPPORTING INFORMATION CONTINUED

ACHIEVEMENTS

* PUBLICATIONS

Name:	Early childhood developmental ...	**Description:**
Organization:	BMC Public Health	Background
Date:	04-02-2023	Inadequate cognitive and socio-emotional development in children leads to physical and mental illness. We aimed to investigate the status of early childhood development (ECD) and its associated factors. Additionally, aimed to compare the changes of significantly associated factors using two multiple indicator cluster surveys (MICS) in Bangladesh.

Methods
We used data from the Multiple Indicator Cluster Surveys (MICS) 2012 and 2019 nationally representative surveys. A total of 17,494 children aged 36–59 months were included in the analysis. The outcome variable was ECD status: eithe

PUBLICATIONS

Name:	The disproportionate case–fat ...	**Description:**
Organization:	IJID Regions	Objectives
Date:	01-26-2023	We compared the global reported cumulative case-fatality ratio (rCFR) and excess mortality between top-20 countries with COVID-19 vaccination rates, the rest of the world and Sub-Saharan Africa (SSA) before and after commencement of vaccination programmes.

Methods
We performed time series model to understand the trend of rCFR over time and performed a generalized linear mixed model to understand role of vaccination on rCFR.

Results
By 31 December 2022, on average 260.3 doses of COVID-19 vaccines per 100 people had been administered in the top-20 vaccinated countries, compared to 1

PUBLICATIONS

Name:	Knowledge of HIV/AIDS among m ...	**Description:**
Organization:	AIDS Res Ther	Married women have a higher risk of contracting human immunodeficiency virus (HIV) or develop acquired immune deficiency syndrome (AIDS) than men. Knowledge of HIV/AIDS contributes significantly to describing the prevalence and consequences of such virus/disease. The study aimed to investigate the level of HIV/AIDS knowledge and the socio-demographic variables that influence HIV/AIDS knowledge among married women in Bangladesh.
Date:	12-28-2022	

* PUBLICATIONS

Name:	The Global Case-Fatality Rate ...	**Description:**
Organization:	Am J Trop Med Hyg	The objective of this study was to evaluate the trend of reported case fatality rate (rCFR) of COVID-19 over time, using globally reported COVID-19 cases and mortality data.
Date:	04-21-2021	

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Application Status **Received**

SUPPORTING INFORMATION CONTINUED

ACHIEVEMENTS

* PUBLICATIONS

Name:	Cesarean delivery and early c ...	**Description:**
Organization:	Plos One	The rate of cesarean delivery (C-section) has been increasing worldwide, including in Bangladesh, and it has a negative impact on the mother and child's health. Our aim was to examine the association between C-sections and childhood diseases and to identify the key factors associated with childhood diseases. We used four nationally representative data sets from multiple indicator cluster survey (MICS, 2012 and 2019) and Bangladesh Demographic and Health Survey (BDHS, 2011and 2014) and analyzed 25,270 mother-child pairs. We used the frequency of common childhood diseases (fever, short or rapid
Date:	12-03-2020	

* PUBLICATIONS

Name:	The Global Health Security in ...	**Description:**
Organization:	Epidemiology & Infection	Global Health Security Index (GHSI) and Joint External Evaluation (JEE) are two well-known health security and related capability indices. We hypothesised that countries with higher GHSI or JEE scores would have detected their first COVID-19 case earlier, and would experience lower mortality outcome compared to countries with lower scores. We evaluated the effectiveness of GHSI and JEE in predicting countries' COVID-19 detection response times and mortality outcome (deaths/ million). We used two different outcomes for the evaluation: (i) detection response time, the duration of time to the firs
Date:	09-07-2020	

LICENSES AND CERTIFICATIONS

Title:	Astronomical Data analysis	**Issue Date:**	02-08-2019
Certifications Number:	—	**Valid Until:**	—
Type:	Certifications	**Description:**	—
Organization:	CAM_SUST		

Title:	Monitoring & Evaluation Train ...	**Issue Date:**	06-11-2021
Certifications Number:	—	**Valid Until:**	—
Type:	Certifications	**Description:**	—
Organization:	BDJOBS		

Title:	R for Bioinformatics	**Issue Date:**	09-01-2023
Certifications Number:	—	**Valid Until:**	—
Type:	Certifications	**Description:**	—
Organization:	CHIRAL		

Title:	Research Techniques on Social ...	**Issue Date:**	01-15-2019
Certifications Number:	—	**Valid Until:**	—
Type:	Certifications	**Description:**	—
Organization:	SUST Research Center		

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Georgia Southern University Jiann-Ping Hsu College of Public Health

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Applicant ID **2759414159**

Biostatistics

Application Status **Received**

SUPPORTING INFORMATION CONTINUED

REFERENCES AND EVALUATIONS

Md Jamal Uddin

Occupation:	—	Waiver of Evaluation:	Yes
Professional Title:	—	Permit to Contact:	Yes
Organization:	—	School Permission to Contact:	Yes
Email:	jamal-sta@sust.edu		
Telephone:	01716972846		
Request Date:	09-28-2024		
Response Due:	12-31-2024		
Status:	Requested		
Date Completed:	—		

Muhammad Abdul Baker Chowdhury

Occupation:	—	Waiver of Evaluation:	Yes
Professional Title:	—	Permit to Contact:	Yes
Organization:	—	School Permission to Contact:	Yes
Email:	chowdhurym@ufl.edu		
Telephone:	—		
Request Date:	09-28-2024		
Response Due:	12-31-2024		
Status:	Requested		
Date Completed:	—		

Najmul Haider

Occupation:	Lecturer	Waiver of Evaluation:	Yes
Professional Title:	Lecturer in Epidemiology	Permit to Contact:	Yes
Organization:	Keele University	School Permission to Contact:	Yes
Email:	n.haider@keele.ac.uk		
Telephone:	447766432969		
Request Date:	09-28-2024		
Response Due:	12-31-2024		
Status:	Requested		
Date Completed:	—		

DOCUMENTS

Document Requested	Uploaded	File Name	Uploaded Date
CV/Resume	Yes	CV/Resume	10-10-2024

<p align="center">Curriculum Vitae</p>

<p align="center">**Mohammad Nayeem Hasan**</p>

<p align="center">1st floor, Rahib Mansion, Uttar Dikkul, Cox's Bazar Sadar, Cox's Bazar, Bangladesh</p>
<p align="center">**E-mail:** nayeem5847@gmail.com (personal), nayeem@cpi-ypsa.org (professional), **Cell:** +8801671912637</p>
<p align="center">**Web of Science:** https://www.webofscience.com/wos/author/record/G-9469-2019</p>
<p align="center">**LinkedIn:** https://www.linkedin.com/in/nayeem5847/ **Website:** https://nayeemlab.github.io/</p>

Education

- **Master of Science (M.S.)** in Statistics, Shahjalal University of Science and Technology, Sylhet, Bangladesh **(SUST)**, 2018, **Dissertation:** Assessment of Ground Water Quality in the Vicinity of Sylhet City, Bangladesh: A Multivariate Analysis
- **Bachelor of Science (B.Sc.)** in Statistics, SUST, 2016
  - **Second Major** in Computer Science and Engineering **(Double Major)**, SUST

Professional Experiences, Joint Rohingya Response (Humanitarian) Program

1. **Monitoring and Evaluation Officer**, Community Partners International, Cox's Bazar (Feb-2023 to present)
Responsibilities: Participating in monitoring, evaluation, and research activities
2. **Health Information System Officer**, Food for the Hungry, Cox's Bazar (Mar-2022 to Feb-2023)
Responsibilities: Preparing and submitting all types of qualitative and quantitative health facility reports
3. **Management Information System Officer**, Partners in Health & Development (Feb-2021 to Feb-2022)
Responsibilities: Participating in monitoring, designing, and assessing health projects

Statistical Programming Language & Analytical Skills

- Analytical skills with **R, Python, SPSS, SAS, and STATA** (https://github.com/nayeemlab)
  - Research methodology, machine learning, data mining, regression analysis, forecasting, multivariate techniques, survival analysis parametric, nonparametric analysis, etc.
- Skilled in **MS Office, Pivot Table, Kobo Toolbox & Power BI**

Research Experiences (Projects), associated with University Research Center, SUST

1. **Research Assistant,** Vicious Cycle of Poverty in Haor Region of Bangladesh: Impact of Formal and Informal Credit, Sponsored by the Ministry of Education under the Grant of Advanced Research in Education (GARE), **Duration:** Jul 2020 - Dec 2020, **Grant:** Tk. 15,00,000.00
2. **Research Assistant,** Effectiveness of Some Selected Promotional Social Safety Nets Programs in Bangladesh: Formulation for Future Strategies, Financed by The Social Science Research Council, Planning Division, Ministry of Planning, **Duration:** Jan 2020 - Jun 2020, **Grant:** Tk. 6,00,000.00
3. **Research Assistant,** Reducing the Errors in the Measurement of Food Security in Bangladesh through Development and Implementation of an Innovative Method, Sponsored by The Ministry of Education, Government of Bangladesh under GARE, **Duration:** Jan 2019 - Jun 2019, **Grant:** Tk. 18,00,000.00

Publications (Journal)

1. Haider N, **Hasan MN**, et al. Global Landmark: 2023 Marks the Worst Year for Dengue Cases with Millions Infected and Thousands of Deaths Reported. *IJID Regions* 2024

2. Ghosh S, **Hasan MN**, et al. Rabies control in Bangladesh and prediction of human rabies cases by 2030: a One Health approach. *The Lancet Regional Health - Southeast Asia* 2024

3. Ullah MA, Mim AS, **Hasan MN**, et al. Deep Learning Based Forecasting Models of Dengue Outbreak in Bangladesh: Comparative Analysis of LSTM, RNN, and GRU Models Using Multivariate Variables with a Two-Decade Dataset. *IEEE* 2024

4. **Hasan MN**, et al. Two decades of endemic dengue in Bangladesh (2000–2022): trends, seasonality, and impact of temperature and rainfall patterns on transmission dynamics. *J Med Entomol* 2024

5. Haider N, **Hasan MN**, *et al.* The 2022 dengue outbreak in Bangladesh: hypotheses for the late resurgence of cases and fatalities. ***J Med Entomol*** 2023

6. **Hasan MN**, *et al.* Early childhood developmental status and its associated factors in Bangladesh: a comparison of two consecutive nationally representative surveys. ***BMC Public Health*** 2023

7. Haider N, **Hasan MN**, *et al.* The disproportionate case-fatality ratio of COVID-19 between countries with the highest vaccination rates and the rest of the world. ***IJID Regions*** 2023

8. **Hasan MN**, *et al.* Knowledge of HIV/AIDS among married women in Bangladesh: analysis of three consecutive multiple indicator cluster surveys (MICS). ***AIDS Res Ther*** 2022

9. **Hasan MN**, *et al.* The Global Case-Fatality Rate of COVID-19 Has Been Declining Since May 2020. ***Am J Trop Med Hyg*** 2021

10. **Hasan MN**, *et al.* Cesarean delivery and early childhood diseases in Bangladesh: An analysis of Demographic and Health Survey (BDHS) and Multiple Indicator Cluster Survey (MICS). ***PLoS One*** 2020

11. Haider N, Yavlinsky A, Chang YM, **Hasan MN**, *et al.* The Global Health Security Index and Joint External Evaluation score for health preparedness are not correlated with countries' COVID-19 detection response time and mortality outcome. ***Epidemiol Infect*** 2020

Reviewer activities

Journal of Health, Population and Nutrition	Scientific Reports	BMC
Research in Health Services & Regions	PLOS Global Public Health	PLOS ONE

Board Memberships, Professional Associations, and Affiliations

- **Editorial board member**, PLOS ONE & Frontiers in Water (2023 to present)
- **Biostatistician**, Biostatistics, Epidemiology and Public Health Research Team (2023 to present)
- **Team Leader,** Research & Reporting Team, UNITY Bangladesh (2022 to present)
- **Researcher,** Biomedical Research Foundation (2021 to present)

Conferences

1. **Oral presentation** on "Global case-fatality rate of COVID-19 is declining since May 2020" at the "World One Health Congress 2020" Conference.

2. **Oral presentation** on "A Comparison of Logistic Regression and Linear Discriminant Analysis in Predicting of Female Students Attrition from School in Bangladesh" at the "Electrical Information & Communication Technology 2019" Conference.

3. **Oral presentation** on "Association between exclusive breastfeeding and common childhood diseases in Bangladesh" in the "Data Science and SDGs: Challenges, Opportunities, & Realities 2019" Conference.

Mentorship experiences

1. "**Workshop on Data Analysis Using SPSS**" organized by OGIVE Analytics

2. "**Statistics and Data Analysis for Research**" which is under the "Autumn 2020 Research Internship Program" organized by Chittagong University Research and Higher Study Society

3. "**Workshop on Data Analysis**" organized by SUST Science Arena

Training participations

"R for Bioinformatics" by CHIRAL	**"Professional Report Writing Skills"** by BDJOBS
"Astronomical Data Analysis" by CAM_SUST	**"Research Techniques on Social Sciences"** by URC

Extra Co-curricular Activities

Clean-up Campaign: "DESHTAKE PORISHKAR KORI (Let's clean-up the country)"	**Campus Ambassador, SUST,** Organization: WOC & English Olympiad

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CUSTOM QUESTIONS

EXTENDED PROFILE QUESTIONS

*   1.   **Will you have completed a master's degree by your anticipated program start date?**

Answer: Yes

*   2.   **Do you have a doctoral or nearly completed doctoral degree (within 24 months of completion)?**

Answer: No

*   3.   **Do you have post-undergraduate health-related work or research experience?**

Answer: Yes

*   4.   **If Yes, length of experience:**

Answer: 5 years or more

*   5.   **Did you receive a degree from a non-U.S. institution?**

Answer: Yes

*   6.   **Did you receive a medical degree from a non-U.S. institution?**

Answer: No

PROGRAM PLANS

*   1.   **Indicate when you plan to begin public health school. I plan to begin:**

Answer: In 2025

EUROPEAN UNION DATA PROTECTION

*   1.   **Are you currently located in a European Union country, Iceland, Liechtenstein, Norway, or Switzerland?**

Answer: No

FIRST GENERATION STUDENT

*   1.   **Are you the first member of your immediate family to complete an undergraduate degree?**

Answer: Yes

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CUSTOM QUESTIONS CONTINUED

FIRST GENERATION STUDENT

* 2. **Are you the first member of your immediate family to pursue a graduate degree?**

Answer: Yes

FINANCIAL ASSISTANCE

* 1. **Are/were you a military service member who plans to use Military Education Benefits?**

Answer: No

* 2. **Are you applying for financial aid?**

Answer: Yes

* 3. **Do you want to be considered for financial assistance?**

Answer: Yes

HEARD ABOUT PUBLIC HEALTH

* 1. **How did you hear about Public Health?**

Answer: Other - Social media or website

2. **If "Other," checked above, please specify:**

Answer: Website

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DESIGNATIONS

BIOSTATISTICS

Organization:	Georgia Southern University Jiann-Ping Hsu College of Public Health	Delivery:	On-Campus
		Submitted Date:	10-10-2024
Department:	Biostatistics	Completed Date:	—
Degree:	DrPH	Verified Date:	—
Start Term:	Fall 2025	Application Status:	Received
GRE Test Scores:	Optional	Academic Update Status:	—
		Last Updated:	10-10-2024

SUPPLEMENTAL QUESTIONS

QUANTITATIVE & ANALYTICAL ASSESSMENT

* 1 Statement of Quantitative/Analytic Experience and Ability: Provide a concise statement detailing your previous quantitative/analytic experience, such as courses completed (whether for credit), quantitative/analytic work completed for research and publications you meaningfully took part in, standardized test scores, and/or work experience. Please use this statement to detail what you have accomplished and, if applicable, how you have used your abilities outside of the classroom. Verification of Ability: Provide examples of the experience/ability included in your statement. Use the "Other" tab in the Optional Documents section to upload examples. College coursework, including grades**. Certificates of course completions for face-to-face/online courses. Official standardized GRE/GMAT scores (taken within the last 5 years). Send official scores to school code 8560. Abstracts of research projects or publications - please ONLY provide the abstract and/or a link to access the paper virtually. We WILL NOT review complete thesis/publications/projects. Project deliverables demonstrating analytic/quantitative skill- should you not be able to provide the actual data, please provide a brief description of the project, including the tools used and the results. **Transcripts do not need to be provided. They are included in your application.**

Answer: I developed a strong foundation during my undergraduate program, especially in the area of biostatistics and epidemiology. A core course offered by Dr. Jamal Uddin made me more interested and prepared me to gain skills that I so much required in working with complex health study. My performance in other courses like Statistical Computing was admirable such that I had a straight' s: GPA 4.0. With the intention of achieving proficiency with my statistical knowledge, I pursued for a double major in Computer Science and Engineering where I mastered programming in SAS, Stata, R, and Python by learning other basic programming language like C/C++, SQL, and HTML/CSS.
The Master's degree thesis I wrote and which was funded by the University Research Centre got published in a good journal demonstrating my ability to handle thorough research. Working as Data Management and Reporting Officer under the Joint Rohingya Response Program was also an enriching part of my work experience where I used my skills in managing projects emphasizing healthcare to the underserved communities.
In addition, I have a record of funded projects dealing with socio-economic problems. I have been involved in significant research on infectious diseases, maternal-child health, and environmental health. As an example, I employed time-series forecasting methods in my recent rabies control work, and I applied the skills of analyzing pandemic based on COVID-19 data in making recommendations for preparedness.

SUPPLEMENTAL QUESTIONS

ABOUT THE APPLICANT

* 1 **Are you a U.S. Citizen or U.S. Permanent Resident?**

Answer: No

* 2 **Have you ever attended Georgia Southern University before?**

Answer: No

* 3 **Have you ever applied to the Jiann-Ping Hsu College of Public Health before?**

Answer: No

* 4 **Please tell us about your background (check all that apply).**

Answer:

- Prior to applying to JPHCOPH, you lived in an underserved area
- From a low-income background
- Prior to applying to JPHCOPH, you worked with underserved populations

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DESIGNATIONS CONTINUED

BIOSTATISTICS

SUPPLEMENTAL QUESTIONS

ABOUT THE APPLICANT

*	5	Are there any criminal charges, other than a minor traffic violation, currently pending against you?
		Answer: No

*	6	Have you ever entered a plea of guilty, a plea of no contest, a plea of nolo contendere, an Alford plea to a criminal charge, or a plea under a 1st offender act?
		Answer: No

*	7	Do you have any pending charges for 1) Academic suspension or exclusion from a postsecondary institution; or 2) conduct code violations or academic misconduct violations from a postsecondary institution?
		Answer: No

RESIDENCY AND CITIZENSHIP

	1	Residency
		Answer:

*	2	Are you a Georgia (GA) resident?
		Answer: No

*	3	VERIFICATION OF LAWFUL PRESENCE In accordance with the Board of Regents policy 4.3.4, any student requesting to be classified as an in-state student for tuition purposes will be required to provide verification of their lawful presence in the United States in order to be classified as an in-state student. To provide verification documentation, please complete and submit the Lawful Presence Verification Form. In accordance with the Board of Regents policy 4.3.2.3, International students who reside in the United States under non-immigrant status conditioned at least in part upon intent not to abandon a foreign domicile shall not be eligible for in-state classification. By typing YES below, I acknowledge that I have read and understand how to provide Lawful Presence Verification. If applicable, I will submit the required documentation.
		Answer: Yes

APPLICATION DEADLINE

*	1	Applications and all supporting documents must be received by SOPHAS no later than the JPHCOPH Application Deadline to be considered for admission. It is highly recommended that your application and all supporting documents be received by SOPHAS at least four (4) weeks prior to theJPHCOPH application deadline date. By typing YES below, I understand that my application and ALL supporting documents must be received by SOPHAS no later than the deadline date to be considered for admission.
		Answer: Yes

ACADEMIC TRANSCRIPTS

*	1	Official transcript(s) from each college or university previously attended. An official transcript is required even if the courses from one school appear on the transcript of another school. Transcripts must be sent to SOPHAS from the institutions you listed in the Colleges Attended section of your application. SOPHAS will NOT process your application without receiving all official transcripts. All foreign transcripts must be evaluated by a NACES-accredited evaluation service (e.g. World Educations Services(WES)). The evaluation must include a course-by-course evaluation with a GPA, and it must show you have earned the US-equivalency of the required level of degree. By typing YES below, I understand that I must request official transcripts from EACH institution previously attended and that foreign transcripts must be evaluated by WES or a NACES-accredited evaluation service. SOPHAS will NOT process my application without receiving all official transcripts.
		Answer: Yes

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Georgia Southern University Jiann-Ping Hsu College of Public Health

Hasan, Mohammad Nayeem
Applicant ID 2759414159

Biostatistics

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DESIGNATIONS CONTINUED

BIOSTATISTICS

SUPPLEMENTAL QUESTIONS

APPLICATION TIMELINE

*	1	Applicants must allow enough time for processing when submitting an application and supporting documents. The entire admissions application process can take up to ten (10) weeks. SOPHAS takes approximately 4 weeks to verify an application before the university can begin reviewing an application. Once the university begins reviewing the application, it can take approximately six (6) weeks before an admissions decision is made. Note: Processing times vary throughout the cycle, therefore this timeline may not apply to every applicant's situation. It is highly recommended that you request official transcripts/foreign evaluations, test scores, and reference letters at least eight (8) weeks prior to the JPHCOPH application deadline date. It takes 7-10 business days from the date of receipt to post transcripts and official test scores to your application in SOPHAS. Evaluations or letters of recommendation are immediately updated once received from your recommender. Please see this helpful timeline link: SOPHAS Quick Start Guide By typing YES below, I understand that my application and ALL supporting documents should be received by SOPHAS at least four (4) to eight (8) weeks prior to the JPHCOPH application deadline date to allow enough time for SOPHAS to verify and process by the JPHCOPH application deadline date.

Answer: Yes

OTHER POLICIES AND PROCEDURES

*	1	Program Changes The program to which I am applying is the program I agree to complete. By typing YES below, I understand that should I decide to change my degree, major, concentration, or field of study, I will adhere to the university policies for making program changes and will obtain the appropriate approval(s) from my academic advisor and the College of Graduate Studies.

Answer: Yes

*	2	Graduate Assistantships The Graduate Assistantship (GA) application is a separate application from this admissions application. The SOPHAS Application deadline to receive priority consideration for JPHCOPH Graduate Assistantships is February 1st. (ALL supporting documents must be in SOPHAS no later than this date to receive JPHCOPH priority consideration.) Visit the Graduate Assistantships Information page for eligibility requirements and how to apply. (Assistantships are NOT guaranteed.) For more information regarding funding opportunities, please visit the Office of Financial Aid. By typing YES below, I understand that it is my responsibility to apply for a Graduate Assistantship at the university and that an assistantship is not guaranteed.

Answer: Yes

*	3	STUDENT CONDUCT CODE The Student Conduct Code is the official University publication governing student conduct and behavior. It is the responsibility of each student to become familiar with the rules and regulations governing student life. Student conduct procedures, appeal procedures, and disciplinary sanctions are found in the Student Conduct Code. By typing YES below, I acknowledge that I have read and understand this statement referencing the Student Conduct Code. By typing NO, I understand that I am still subject to University sanctions if I am found to be responsible for misconduct.

Answer: Yes

*	4	HONOR CODE I understand that any material false statement made knowingly and willfully by me on this application or any documents attached here may, in accordance with O.C.G.A. 16-10-71, which provides upon conviction, a person who knowingly commits the offence of false swearing shall be punished by a fine of not more than $1000 or by imprisonment for no less than one nor more than five years, or both, subject to prosecution in court of law. By typing YES below, I certify, to the best of my knowledge, that the information submitted in this application is true and complete. By typing NO, I understand that any such false statement may subject me to immediate dismissal from the institution.

Answer: Yes

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DESIGNATIONS CONTINUED

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SUPPLEMENTAL QUESTIONS

OTHER POLICIES AND PROCEDURES

*	5	ACADEMIC DISHONESTY The University goal is to foster an intellectual atmosphere that produces educated, literate people. Because cheating and plagiarism are at odds with that goal, they shall not be tolerated in any form. Students are expected to adhere to the rules and regulations as set forth in the Student Conduct Code. Therefore, all work submitted by a student must represent that student's own ideas and effort; when the work does not, the student has engaged in academic dishonesty. Plagiarism occurs when a person passes in another person's work as his or her own, borrows directly from another person's work without proper documentation, resubmits his or her own work that has been previously submitted without explicit approval from the instructor. For example, academic dishonesty occurs whenever a student participates in any of the following: Cheating submitting material that is not yours as part of your course performance; using information or devices that are not allowed by the faculty; obtaining and/or using unauthorized materials; fabricating information, research, and/or results; violating procedures prescribed to protect the integrity of an assignment, test, or other evaluation; collaborating with others on assignments without the faculty's consent; cooperating with and/or helping another student to cheat; demonstrating any other forms of dishonest behavior. Plagiarism directly quoting the words of others without using quotation marks or indented format to identify them; using sources of information (published or unpublished) without identifying them; paraphrasing materials or ideas without identifying the source; self-plagiarism - resubmitting work previously submitted without explicit approval from the instructor; unacknowledged use of materials prepared by another person or agency engaged in the selling of term papers or other academic material. NOTICE: The list above is intended only to provide general guidelines for recognizing and avoiding common types of academic dishonesty. It is in no way an exhaustive or comprehensive list of all the types of academic dishonesty. For more information about academic honesty, see the Student Conduct Code. By typing YES below, I acknowledge that I have read and understand the Academic Dishonesty Policy. By typing NO, I understand that I am still subject to University sanctions if I am found to be responsible for misconduct. **Answer:** Yes

ADDITIONAL QUESTIONS

*	1	**How did you find out about JPHCOPH? (check all that apply)** **Answer:** Internet/Website Search (Google, Gradschools.com, etc.)
*	2	**What are your research interests?** **Answer:** • Health Discrimination Inequities and Disparities • Epidemiology & Disease • Food Safety and Nutrition • Environmental and Occupational Health and Safety • Research Statistics • Health Services and Policies Research • Community Health and Assessment • Program Research and Evaluation • Maternal Child Health • Rural Health

DOCUMENTS

Document Requested	Uploaded	File Name	Uploaded Date
Other	Yes	Other	10-05-2024
Statement of Purpose and Objectives	Yes	Statement of Purpose and Objectives	10-10-2024

Mohammad Nayeem Hasan
Statement of Quantitative/Analytic Experience and Ability

I developed a strong foundation during my undergraduate program, especially in the area of biostatistics and epidemiology. A core course offered by Dr. Jamal Uddin made me more interested and prepared me to gain skills that I so much required in working with complex health study. My performance in other courses like Statistical Computing was admirable such that I had a straight's: GPA 4.0. With the intention of achieving proficiency with my statistical knowledge, I pursued for a double major in Computer Science and Engineering where I mastered programming in SAS, Stata, R, and Python by learning other basic programming language like C/C++, SQL, and HTML/CSS.

The Master's degree thesis I wrote and which was funded by the University Research Centre got published in a good journal demonstrating my ability to handle thorough research. Working as Data Management and Reporting Officer under the Joint Rohingya Response Program was also an enriching part of my work experience where I used my skills in managing projects emphasizing healthcare to the underserved communities.

In addition, I have a record of funded projects dealing with socio-economic problems. I have been involved in significant research on infectious diseases, maternal-child health, and environmental health. As an example, I employed time-series forecasting methods in my recent rabies control work, and I applied the skills of analyzing pandemic based on COVID-19 data in making recommendations for preparedness.

Beyond research, I mentor students in data analysis and research methodologies, further solidifying my commitment to academia. My quantitative skills, coupled with a passion for public health, position me to contribute effectively to research and education in this critical field.

Mohammad Nayeem Hasan
Statement of Purpose

My strong foundation in statistics, combined with over four years of professional experience in health-related programs, has not only sharpened my analytical skills but also fueled my passion for solving complex public health challenges through data-driven research. Pursuing a **Doctor of Public Health (DrPH)** in Biostatistics is the next essential step in expanding my expertise and preparing for an independent researcher as a faculty member. The Biostatistics program at **Georgia Southern University** aligns perfectly with my goals of deepening my biostatistical knowledge, contributing to innovative research, and advancing the field of public health. In the short term, I aim to master in biostatistical methods to address vital health concerns, while in the long term, I aspire to lead a research lab that advances biostatistical methodologies, trains future researchers, and fosters a collaborative research environment. This ambition is driven by the mentorship I have received and my commitment to continual learning in Biostatistics.

During my undergraduate studies, I became fascinated by various subfields of statistics, including data mining, biostatistics and epidemiology, time series analysis, and statistical inference. In particular, the Biostatistics and Epidemiology course was quite interesting because of Professor Dr. Jamal Uddin's insightful presentations and course projects. Biostatistics and epidemiology, in particular, captivated me due to their crucial role in addressing public health challenges. These fields have equipped me with the tools to analyze complex health data and derive actionable conclusions to improve health outcomes. To enhance my skills, I pursued a double major in Computer Science and Engineering, gaining proficiency in statistical programming languages and data analysis such as SAS, Stata, R, and Python. This interdisciplinary training has enhanced my ability to address pressing public health challenges through rigorous, data-driven approaches. It has prepared me to utilize biostatistical tools and programming languages for conducting experimental research, incorporating advanced statistical applications as well as big data, deep learning, and machine learning techniques in public health.

To gain real-world experience, I began working with the Joint Rohingya Response Program in 2021, focusing on health-related projects as a Data Management and Reporting Officer. A recent initiative I led, 'Community Health, WASH, Health System Support & Health Post for Forcibly Displaced Myanmar Nationals and Host Community Population,' aims to improve healthcare access in Cox's Bazar, Bangladesh. This role has expanded my understanding of the complex health challenges faced by marginalized populations during humanitarian crises and sharpened my skills in research, data analysis, and program implementation.

My research career has been distinguished by publications in prestigious journals and successful projects funded by the Government of Bangladesh and University Grants. As a research assistant, I contributed to these projects at every stage, from developing research proposals to submitting reports, including supervising data collection, analyzing data, and writing the final reports. Most of those projects focused on socio-economic issues, such as the Vicious Cycle of Poverty, Social Safety Nets Program, and Food Security. My research work primarily focuses on infectious diseases, maternal and child health, and environmental health. Notably, my recent publication on rabies control employed time-series forecasting and multivariate techniques to

predict future cases in Bangladesh. Additionally, I analyzed global COVID-19 data using various regression models, resulting in a significant publication on forecasting and pandemic preparedness. I have analyzed two decades of dengue data and the recent dengue pandemic in Bangladesh (2023), focusing on the geographical shifts in transmission and age/gender-related disparities in morbidity and mortality. This work employed various statistical models and graphical approaches, leading to a significant publication. Additionally, I utilized deep learning-based forecasting models to predict dengue outbreaks in Bangladesh, aiming to integrate artificial intelligence with dengue data for more in-depth insights. We also plan to expand our research to examine the global dengue situation, which is increasingly concerning. I have presented my research at several conferences, including the 2020 World One Health Congress, and serve as an editorial board member and reviewer for journals. Moreover, I teach and mentor students in data analysis and research methodologies, particularly using SPSS and R. Reviewing other papers has inspired me with the innovative thinking of various authors and motivated me to explore new methods in public health research. I also found great joy in mentoring students on their research projects, which solidified my desire to pursue a career in academia.

The DrPH program in Biostatistics at **Georgia Southern University** is the ideal platform for me to achieve my academic and professional aspirations. I am particularly excited about the opportunity to engage in advanced research on biostatistics and improving human health. The **DrPH** in Biostatistics at Jiann-Ping Hsu College of Public Health will equip me with a strong foundation in advanced biostatistics for public health and biomedical fields. I aim to develop and apply statistical methods to tackle challenges in public health and clinical research. This program will prepare me to be an effective public health professional, enhancing my skills and career prospects as a full-time student.

The chance to collaborate with esteemed faculty such as Professor **Dr. Hani M. Samawi**, whose work on "Post-test diagnostic accuracy measures under tree ordering of disease classes" has reinforced my belief that **Georgia Southern University** is the best place for my **DrPH** degree. I became particularly drawn to **Dr. Hani's** another work on "Medical diagnostic accuracy measures: an innovative approach based on the area under predictive values curves" seems to offer exciting doctoral training opportunities that resonate with my prior experience and research interest in Biostatistics. In addition, **Dr. Haresh Rochani**, whose research on "How perceptions of body weight satisfaction are associated with BMI among healthcare providers in Ghana" aligns with my interests, motivates me further.

With a strong background in statistics, hands-on experience in research and data analysis, and a dedication to advancing public health, I am confident that I will be able to make meaningful contributions to both the academic and public health communities. After earning my DrPH, I aim to work in academia, leading a research lab focused on advancing biostatistical methods to address global health challenges. I look forward to engaging with the vibrant academic community at **Georgia Southern University** and contributing to research that addresses pressing health issues worldwide.

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Biostatistics

RELEASE STATEMENT

By accepting these terms, I certify, as required in the application, that I have read, understand, and agree to all policies found within theHelp Center <https://help.liaisonedu.com/SOPHAS_Applicant_Help_Center> and the SOPHAS Applicant Code of Conduct <https://aspph.org/student-journey/sophas/sophas-code-of-conduct>, and understand all application instructions, including the provisions that place responsibility for monitoring and ensuring the progress of my application process with the applicant. I certify that all the information and statements I have provided as part of this application process, including those statements contained in the application and as part of the reference verification process are current, accurate, and complete to the best of my knowledge. I certify that the content of my statement of purpose and objectives and any additional essays / personal statement is original and composed by me in its entirety. I certify that I have had no assistance from other individuals beyond providing feedback on my drafts, and that I have not used an artificial intelligence (AI) essay generator (e.g.ChatGPT) or other online source for the content. I understand that withholding information requested as part of the application process, or submitting false or misleading information, may be grounds for denial of admission by any participating program or expulsion from said program after admission.

Release Statement Answer: I affirm that all the information contained in my application is factually correct and honestly presented. It is understood and agreed that any information an applicant provides that is dishonest or misrepresents the applicant will be shared with all schools and colleges of public health. It is further understood that an applicant who misrepresents themselves or otherwise acts unethically or dishonestly may be denied admission to all SOPHAS participating schools and colleges of public health for the current and future application cycles. All credential data, including the application form, letters of recommendation, transcripts in support of the application, photographs and personal statements become property of SOPHAS and cannot be returned.

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ADVISOR RELEASE STATEMENT

By selecting Yes, you authorize SOPHAS to release parts of your SOPHAS application and admission status to the health profession advisors and advisory committees of the post-secondary institution(s) you have attended. By releasing your information, your advisor is better able to assist you throughout the admissions process. Once you submit your application to a program in SOPHAS, you cannot edit this response.

Advisor Release Statement Answer: Yes