

Nishat Tasnim Hasan

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EDUCATION

Doctorate of Public Health (DrPH) **August 2024 (expected)**

Concentration: Epidemiology

Supervisor: Dr. Taehyun Roh

Department of Epidemiology and Biostatistics

Texas A&M School of Public Health, College Station, Texas

Masters of Public Health (DrPH) **August 2021**

Concentration: Epidemiology

Supervisor: Dr. Taehyun Roh

Department of Epidemiology and Biostatistics

Texas A&M School of Public Health, College Station, Texas

Bachelor of Medicine and Surgery (MBBS) **July 2012**

Sir Salimullah Medical College

University of Dhaka, Bangladesh

CLINICAL EXPERIENCE

Medical Officer **February 2016– October 2018**

Labaid Specialized Hospital, Dhaka

Neonatal Intensive Care Unit (NICU) and Pediatrics Department

Medical Officer **July 2015– December 2015**

Bangladesh Institute of Child Health (BICH), Dhaka

Pediatrics and Adolescent Department

Intern Doctor **December 2012– December 2013**

Sir Salimullah Medical College, Dhaka

TEACHING EXPERIENCE

Teaching Assistant **January 2021–May 2021**

Department of Epidemiology and Biostatistics, Texas A&M School of Public Health

Course Title: PHEB 612 Data Management and Statistical Computing (graduate level)

Topics Covered: Data management and big data statistical analysis using SAS software

Lecturer

February 2014– February 2015

Northern Private Medical College, Rangpur

Department of Biochemistry

Topics Covered: Lecture and biochemical lab sessions

RESEARCH EXPERIENCE

Graduate Research Assistant

July 2020– Present

Department of Epidemiology and Biostatistics, Texas A&M School of Public Health

Supervisor: Dr. Taehyun Roh

- Assessing the burden of exposure to water and environmental contaminants on cancer and chronic health outcomes, including disparities, biomarkers, and disease associations, in underserved rural communities.
- Constructing surveys, collecting environmental and biological samples, managing data, and handling logistics for sample collection and distribution of intervention materials.
- Conducting secondary data analysis, analyzing large datasets, and performing spatial data analysis to identify disease clusters.
- Conducting literature reviews on relevant topics and writing manuscripts, reports, and analysis documents for publication and dissemination.
- Identifying and engaging with affected communities, distributing informational materials and surveys, and coordinating with community health workers and local health departments.
- Projects
 - Safer Water Projects, funded by Methodist Healthcare Ministries of South Texas
 - Exploration of early-stage biomarkers of urothelial cell transformation induced by chronic arsenic exposure, funded by Houston Methodist Cancer Center
 - Cancer prevention through identification and reduction of arsenic exposure from private wells in rural Texas, funded by Houston Methodist Cancer Center and Robert and Janice McNair Foundation
 - Water quality and chronic kidney disease, funded by Texas A&M Health Science Center Seedling Grant
 - Impact of drinking water contaminants on cancer rates in Texas, funded by Texas A&M Triads for Transformation (T3) Grant
 - Association of exposure to water contaminants and COVID-19 infection in Texas, funded by National Institute of Environmental Health Sciences

Volunteer Researcher (Remote)

June 2020–July 2020

College of Nursing and Health Sciences at Texas A&M University Corpus Christi

Project: Improving protocol for identifying and treating perinatal depression in a prenatal clinic

- Survey data management and statistical analysis

PUBLICATIONS

Peer-reviewed articles:

1. Roh T., Regan A., Johnson N., **Hasan N. T.**, Aggarwal A., and Han D. (2024) Association of arsenic exposure with measles antibody titers in US children: Influence of gender and serum folate levels. *Environmental International*, 183:108329.
<https://doi.org/10.1016/j.envint.2023.108329>
2. Roh T., Chukwuemeka E., Hendricks J., **Hasan N. T.**, and Benden M. (2023) Examining workweek variations in computer usage patterns: an application of ergonomic monitoring software. *PLoS One*, 18:e0287976.
<https://doi.org/10.1371/journal.pone.0287976>
3. Hossain M. M., Rahman M., Trisha N. F., Tasnim S., Nuzhath T., **Hasan N. T.**, and Ma P. (2021). Prevalence of anxiety and depression in South Asia during COVID-19: a systematic review and meta-analysis. *Heliyon*, 7(4):e06677.
<https://doi.org/10.1016/j.heliyon.2021.e06677>
4. Roh T., Moreno-Rangel A., Baek J., Obeng A., **Hasan N. T.**, and Carrillo G. (2021). Indoor air quality and health outcomes in employees working from home during the COVID-19 pandemic: A pilot study. *Atmosphere*, 12(12):1665.
<https://doi.org/10.3390/atmos12121665>
5. Hossain M. M., Tasnim S., Sultana A., **Hasan N. T.**, Mazumder H., Khan N., and Faizah F. (2019). A systematic review of digital interventions addressing mental disorders among the elderly population. *Innovation in Aging*, 3(Supplement_1):S513-S514.
<https://doi-org.srv-proxy1.library.tamu.edu/10.1093/geroni/igz038.1895>

Book chapter:

1. Roh ,T., Aggarwal, A., **Hasan, N. T.**, Upadhyay, A., Trisha, N. F. (2023). pesticides and cancer. In Bernicker, E. H. (Ed.), *Environmental Oncology: Theory and Impact*. Springer Nature.

Publications in Preparation:

1. **Hasan N. T.**, Han D., Xu X., Sansom G., and Roh, T. Trends and patterns of disparities in kidney cancer incidence in Texas and the US.
2. **Hasan N. T.**, Han D., Xu X., Sansom G., and Roh, T. Relationship between low-level arsenic exposure in drinking water and kidney cancer risk in Texas.
3. **Hasan N. T.**, Han D., Xu X., Sansom G., and Roh, T. Association between urinary arsenic levels and kidney damage in US adults.
4. **Hasan N. T.**, Trisha, N. F., Roh T. Cumulative and individual risk of urinary phthalate metabolites for dyslipidemia among the US adult population based on NHANES Study.
5. **Hasan N. T.**, Shah N.C., Roh T. Phthalate exposure and respiratory diseases among US adults and children: a cross-sectional study.

6. Roh T., Han D., Johnson N., Wang T., **Hasan N. T.** Association of exposure to arsenic from drinking water with COVID-19 infection and mortality in Texas
7. Roh T., Han D., **Hasan N. T.**, Knappett P. The association of fluoride exposure with insulin resistance and prediabetes in us children and adolescents.
8. Tasnim, S., Trisha, N. F., Fan, Q., Sultana, A., Mishu, S. H., **Hasan, N. T.**, and Hossain, M. M. Improving mental health and wellbeing among sexual and gender minorities using digital interventions: a systematic review.

PRESENTATIONS

Poster Presentations:

1. **Hasan N. T.**, Han D., Xu X., Sansom G., and Roh, T. (2024). Association between urinary arsenic levels and kidney damage in US adults. The 2024 International Society for Environmental Epidemiology Annual Conference.
2. **Hasan N. T.**, Trisha N. F., and Roh T. (2024). Association between arsenic exposure from drinking water and kidney cancer risk in Texas. Student Research Week, Texas A&M University.
3. **Hasan N. T.**, Trisha N. F., and Roh T. (2024). Association between arsenic exposure from drinking water and kidney cancer risk in Texas. The 63rd Society of Toxicology Annual Meeting and ToxExpo, Salt Lake City, Utah.
4. Roh T., Trisha N. F., Smith L., and **Hasan N. T.** (2023). Association between urinary glyphosate and kidney function among US Adults: NHANES 2013–2014. The 62nd Society of Toxicology Annual Meeting and ToxExpo.
5. **Hasan N. T.**, Trisha N. F., and Roh T. (2022). Urinary phthalate metabolites and risk of dyslipidemia among adult population in the US: NHANES 2007-2016. The 61st Society of Toxicology Annual Meeting and ToxExpo.
6. **Hasan N. T.**, Shah N. C., and Roh T. (2020) Phthalate exposure and respiratory diseases among adults and children: the US NHANES 2007-2016. The 2020 International Society for Environmental Epidemiology Annual Conference.
7. Shah N. C., **Hasan N. T.**, and Roh T. (2020) Trends in arsenic exposure among the US population: Findings from the National Health and Nutritional Examinations Survey, 2007–2016. The 2020 International Society for Environmental Epidemiology Annual Conference.
8. Roh T., Shah N. C., **Hasan N. T.**, Johnson N. M., and Carrillo G. (2020) Arsenic exposure and measles antibody titers in the US children: NHANES 2003-2004 and 2009-2010. The 2020 International Society for Environmental Epidemiology Annual Conference.
9. **Hasan N. T.**, Najneen S, Tasnim S, Mishu S. H., Hasan N. N., Shaik A. F., Mazumder H., Hossain M. M., and Faizah F. (2019) Barriers to ethical decision-making on cesarean section in South Asia: A Systematic review. The 7th Annual Global Health Conference, Houston Global Health Collaborative.

10. Mishu S. H., **Hasan N. T.**, Najneen S., Tasnim S., Hasan N. N., Shaik A. F., Mazumder H., Hossain M. M., and Faizah F. (2019) A systematic review of femicide in South Asia: status, determinants and challenges for human rights. The 7th Annual Global Health Conference, Houston Global Health Collaborative.

Oral Presentations:

1. Roh T., Satkunasivam R., White D. W., **Hasan N. T.**, Trisha, N. F., Han D., and Xu X. (2024). A community-engaged approach to assess arsenic exposure in private well users in rural communities: The South Texas Arsenic Research Project. The 2024 International Society for Environmental Epidemiology Annual Conference.
2. **Hasan N. T.**, Trisha N. F., and Roh T. (2024). Association between arsenic exposure from drinking water and kidney cancer risk in Texas. The 2024 Society of Toxicology Lone Star Chapter Meeting (Galveston, Texas)

AWARDS

- Travel Grant Award, 63rd Society of Toxicology Annual Meeting, Salt Lake City, Utah, 2024
- First place, 19th Annual Jean Brender National Public Health Week Poster Symposium, 2024
- First place, 18th Annual Jean Brender National Public Health Week Poster Symposium, 2023
- Travel Grant Award, International Society of Environmental Epidemiology, 2020.
- Medical Study Scholarship, 2007-2012.

PROFESSIONAL SERVICE

Abstract Reviewer

- Cancer Epidemiology, Environmental Epidemiology Section, 2022 American Public Health Association Annual Meeting
- Non-Communicable Disease Epidemiology Section, 2023 American Public Health Association Annual Meeting

INTERNSHIP EXPERIENCE

Intern

June 2023–July 2023

Texas Department of State Health Services (DSHS)

Project Title: COVID-19 Waster Water Surveillance Project (PI Heidi Bojes)

- Analyze COVID-19 wastewater surveillance data from various facilities in Texas
- Summarize and visualize data for presentation and dashboard updates using multiple software such as Tableau and Anaconda

Intern

June 2022–July 2022

Tele-Behavioral Care (TBC) Program

Texas A&M Department of Psychology and Brain Sciences

Project Title: Tele-Behavioral Care (TBC) Data and Evaluation for Attention Deficit and Hyperactivity Disorder (ADHD) (PI Trey Armstrong)

- Data extraction for patients' history and ongoing treatment from medical records
- Data analysis and remodeling of the existing database

Intern (Research Assistant I)

June 2021–August 2021

Department of Epidemiology, Human Genetics and Environmental Sciences

University of Texas Health Science Center at Houston

Project Title: Innate Immunity Modulation Among Immunocompetent Hosts Against Human Cryptosporidiosis (PI Cynthia L. Chappell)

- Collaboration with MD Anderson Cancer Center and Baylor College of Medicine
- Conducting laboratory experiments on intestinal parasites and gut microbiome
- Analyze ELISA data reports, visualize, and present findings

TRAINING/WORKSHOP

- iRIS and IRB Website Introductory Workshop, 2022
- RCR Face-to-Face Training: Research Misconduct; Authorship; Peer Review; Collaborative Research; Conflicts of Interest/Commitment, 2021
- RCR Face-to-Face Training: Mentor/Mentee; Research Data Management, 2021
- Bloodborne Pathogens Training for Healthcare Providers and Clinical Personnel, 2021
- Biological Safety Training, 2021
- Crisis and Emergency Risk Communication (CERC) Online Training by CDC, 2020
- HIPAA Privacy and Security for Human Research, 2020
- Social and Behavioral Research Investigators and Key Personnel, CITI Program, 2019

SKILLS

- Statistical Software: SAS, STATA, R, SPSS, ArcGIS, EpiInfo, Excel
- Computer Skills: Microsoft Office, EndNote, Mendeley
- Community Outreach: Community Assessment for Public Health Emergency Response (CASPER)
- Laboratory: Water sample preparation, PFAS extraction, ELISA, immunofluorescence, histopathology, asepsis, biohazard protocol

MEMBERSHIP

- **Student Member**, International Society for Environmental Epidemiology (ISEE)
- **Student Member**, Society of Toxicology (SOT)

- **Member**, Texas A&M Public Health Student Association (TAMPHSA)
- **Member**, Epidemiology Student Organization, Texas A&M School of Public Health
- **Member**, Bangladesh Medical and Dental Council (BMDC)

REFERENCES

- Dr. Taehyun Roh
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Texas A&M School of Public Health
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- Dr. Xiaohui Xu
Professor, Department of Epidemiology and Biostatistics
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- Dr. Daikwon Han
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- Dr. Garrett Sansom
Assistant Professor, Environmental and Occupational Health
Texas A&M School of Public Health
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