

# Awan Afiaz

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## Education

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### University of Washington

Seattle, USA

#### Ph.D. in Biostatistics

September 2022 - Present

### University of Dhaka

Dhaka, Bangladesh

#### Bachelor of Science (B.S.) in Applied Statistics

2017 - 2021

- **Relevant Coursework:** Generalized linear models; Survival Analysis; Bayesian Statistics; Stochastic Processes; Time Series; Sampling Methods; Multivariate statistics: Principal Component and Factor analysis, Classification, Clustering; Epidemiology; Population Studies and Demography, Econometric modeling.

## Research Experience

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### Graduate Research Assistant and ITCR Resource Developer

September 2022 - Present

#### Fred Hutch Cancer Research Center

- Supervisor: [Jeffrey T. Leek](#)
- **Project:** Measuring Impact of software tools designed for biomedical research (on-going paper)
- Development and maintenance of Informatics Technology for Cancer Research (ITCR) [platforms website](#)

### Undergraduate Research Assistant

June 2020 - December 2020

#### Institute of Statistical Research and Training, University of Dhaka

- Supervisors: [Mohaimen Mansur](#) and [Iftakhar Alam](#)
- **Project:** Early Childhood Development of Bangladeshi Children

### Independent and Collaborative Research Projects

- **Project:** Analysis of treatment effect in presence of covariate-dependent missing data in Cluster Randomized Trials, mentored by [Dr. Anower Hossain](#), University of Warwick.
- **Collaborative public health project topics:** COVID-19, Intimate partner violence, women's reproductive healthcare, adolescent health.

### B.S. Honors Project

- **Research Topic:** Impact of Child's Cognitive and Social-Emotional Difficulties on Child Abuse using classification trees and generalized linear models [[published](#)], Supervisor: [Dr Mohammad Shahed Masud](#)

## Teaching Experience

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### Graduate Student Tutor

#### Institute of Statistical Research and Training (ISRT), University of Dhaka

January 2022 - June 2022

- Mathematics and Statistics tutor for undergraduate courses: ASTAT 101: Elements of Applied Statistics; AST 102: Probability; AST 105: Calculus, AST 107: Linear Algebra, AST 201: Sampling Distributions, AST 203: Statistical Inference I; AST 204: Design of Experiments I; AST 206: Sampling Methods I.

### Online Student Instructor and Tutorial Maker

#### 10 Minute School

January 2017 - December 2021

- Created **300+ video tutorials on mathematics and statistics** for national curriculum based students. Available for free on the [YouTube](#) channel of 10 Minute School.
- Conducted online Live Classes on Facebook and [YouTube](#) teaching over a million students in total.

## Industry Experience

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### 10 Minute School (Edu-Tech)

Dhaka, Bangladesh

#### Department Lead: Quality Assurance and Control (QAC)

September 2017 - December 2021

- Spearheaded the QAC department with **over 25 employees** for the largest education platform in Bangladesh.
- Successful supervision of creation and review of **19,018 video tutorials, 837 online-based smartbooks and 6,400 academic quizsets**.

## Skills

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### Software skills

- Statistical software: **R** (proficient), **STATA** (intermediate), **SPSS** (intermediate), **SAS** (beginner).

### Technical skills

- Proficient in **LaTeX** and **Microsoft Office/Google Suite**.
- Data analysis and visualization in using **tidyverse** family and **ggplot2** packages.

## Awards and Honors

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2022	<b>Pat Wahl Award</b> , Recognition of commitment to strategic use of online technologies to reach diverse communities for disseminating education.	University of Washington
2022	<b>Dean's Merit Award</b> , Faculty of Sciences awardee for achieving the highest CGPA (4.0)	University of Dhaka
2022	<b>Govt. Honours Scholarship</b> , Talent pool, ranked 1st	University of Dhaka
2021	<b>ISRT Golden Jubilee Gold Medal Award 2021</b> , for achieving the highest CGPA (4.0) in B.S. Honors	University of Dhaka
2019	<b>ISRT Merit Stipend</b> , achieving the highest CGPA (4.0) in freshman and sophomore years	University of Dhaka

## Publications

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### Published

- Mansur M, **Afiaz A**, Hossain MS (2021). Sociodemographic risk factors of under-five stunting in Bangladesh: Assessing the role of interactions using a machine learning method **PLOS One**, 16(8), e0256729. doi:10.1371/journal.pone.0256729
- **Afiaz A**, Arusha AR, Ananna N, Kabir E, Biswas RK (2021). A national assessment of elective cesarean sections in Bangladesh and the need for health literacy and accessibility **Scientific Reports**, 11(1), 1-12. doi:10.1038/s41598-021-96337-0
- **Afiaz A**, Biswas RK (2021). Awareness on menstrual hygiene management in Bangladesh and the possibilities of media interventions: using a nationwide cross-sectional survey **BMJ Open**, 11(4), e042134. doi:10.1136/bmjopen-2020-042134
- **Afiaz A**, Masud MS, Mansur M (2021). Impact of child's cognitive and social-emotional difficulties on child abuse: Does mother's justification of intimate partner violence also play a role?. **Child Abuse & Neglect**, 117, 105028. doi:10.1016/j.chiabu.2021.105028
- **Afiaz A**, Biswas RK, Shamma R, Ananna N (2020). Intimate partner violence (IPV) with miscarriages, stillbirths and abortions: Identifying vulnerable households for women in Bangladesh. **PLOS One** 15(7): e0236670. doi:10.1371/journal.pone.0236670
- Biswas RK, **Afiaz A**, Huq S (2020). Underreporting COVID-19: the curious case of the Indian subcontinent. **Epidemiology and Infection**, 148, E207. doi:10.1017/S0950268820002095
- Biswas RK, Huq S, Afiaz A, Khan HT (2020). A systematic assessment on COVID-19 preparedness and transition strategy in Bangladesh. **Journal of evaluation in clinical practice**. 26(6):1599-611. doi:10.1111/jep.13467.
- Biswas RK, Huq S, **Afiaz A** (2020). Relaxed lockdown in Bangladesh during COVID-19: should economy outweigh health? **International Journal of Health Policy and Management**, 9(11), 488-490; doi:10.34172/ijhpm.2020.98

## Manuscripts under review

- Biswas RK, **Afiaz A**, Huq S, Bhuiyan FM, Kabir E. Public opinion on COVID-19 vaccine prioritization in Bangladesh: Who gets the vaccine and whom do you leave out?
- Biswas RK, **Afiaz A**, Huq S, Bhuiyan FM, Kabir E. COVID-19 pandemic in Bangladesh: Disruption to public lives and trust in government's immunization performance.

## Conferences & Posters

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### 2nd International Conference on Applied Statistics (ICAS) 2019

University of Dhaka, Bangladesh

#### Academic poster presentation

December, 2019

- **Poster:** *Intimate partner violence (IPV) with miscarriages, stillbirths and abortions: Identifying vulnerable households for women in Bangladesh.*

## Professional Services

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### Manuscript reviewer

- PLOS One

## University Services and Activities

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Member	<b>Biostatistics Equity, Diversity, and Inclusion (EDI) Committee</b> , Education and Teaching subcommittee, University of Washington	Sept 2022 - Present
Member	<b>Graduate Student Representative</b> , Department of Biostatistics, University of Washington	Sept 2022 - Present
Member	<b>Biostatistics Communications/Alumni Relations Committee</b> , University of Washington	Sept 2022 - Present