

# MUSHFIQUL ANWAR SIRAJI

Currently searching for a job related to Psychometrics

I am a PhD research scholar, currently looking for a job related to psychometrics. During my PhD years, I have received training on psychometrics, especially in Item Response Theory-based analysis. I actively worked on the development, cultural adaptation and psychometric calibration of different psychometric measurement tools. I am experienced in parametric and nonparametric statistical analysis and R language based psychometric analysis.


View this CV online with links at [https://masiraji.github.io/psychometrician\\_CV/](https://masiraji.github.io/psychometrician_CV/)

Updated 2022-01-16

## EDUCATION

- 2022 | 2019**  
● **PhD. Candidate, Psychology**  
Monash University  School of Medicine and Health Sciences
  - Visual and non-visual effects of light: Real-world Application
- 2015 | 2014**  
● **MSc., Psycgology**  
University of Dhaka  Department of Psychology
  - Thesis: Cultural Adaptation and Psychometric Validation of Rotter's I-E Scale
  - Psychometrically validated the Bangla Rottoer's Internal-External scale.
- 2014 | 2010**  
● **B.S., Psychology**  
University of Dhaka  Department of Psychology
  - Project: An Evidence of Perception Without Awareness




## RESEARCH EXPERIENCE

- 2022 | 2019**  
● **PhD Research Fellow**  
Monash University  School of Medicine and Health Sciences
  - Actively designed and conducted experients involving human participants at the Intelligent Lighting Lab. Developed a psychometric tool to capture different light exposure related behaviors.

## DATA ANALYSIS

- Item generation and Item Analysis
- Parametric and Non-parametric Statistics
- R Based Data Analysis

## CONTACT

 [siraji1993@gmail.com](mailto:siraji1993@gmail.com)  
 [anwar\\_siraj](#)  
 [masiraji](#)  
 [in masiraji](#)

## SKILLS

Psychometric Data Analysis	
R	
SPSS	
Project Management	
Data Visualization in R	
Illustrator	

## RESEARCH STRENGTH

Psychometrics, Experimental Design, Survey Design, RMarkdown Reports, Data Visualization and Statistical Analysis in R, Reproducibility (Github Version Control), and Academic Writing.

## PSYCHOMETRICS

Item Generation, Item Analysis (Classical and Modern Item Response Theory), Latent Structure Analysis (Exploratory Factor Analysis, Confirmatory Factor Analysis), Structural Equation Modeling, and Regression.

- **Data Visualization**
- **Reproducible Manuscripts & GitHub Integration**



## SELECTED PUBLICATIONS, POSTERS, AND TALKS

- 2022 ● **Effects of Daytime Electric Light Exposure on Human Alertness and Higher Cognitive Functions: A Systematic Review**  
Frontiers in Psychology
  - Authored with Dr. Vinetha Kalavaly, Dr. Alex and Dr. Shamsul Haque
  - A systematic review of ipRGCS influenced light responses in the context of alertness and higher cognitive Functions
- 2022 ● **Light Exposure Behavior Assessment (LEBA): Development of a Novel Instrument to Capture light Exposure-Related Behaviours**  
CIE Australia Lighting Research Conference
  - Authored with Rafael Robert Lazar, Juliette van Duijnhoven, Luc Schlangen, Shamsul Haque, Vineetha Kalavally, Celine Vetter, Gena Glickman, Karin Smolders, & Manuel Spitschan
- 2022 ● **Influence of daytime short-wavelength dominant electric light exposure on human alertness and higher cognitive functions: a cie s026-based pilot study**  
CIE Australia Lighting Research Conference
  - Authored with Dr. Vinetha Kalavaly, Dr. Alex and Dr. Shamsul Haque
- 2021 ● **Bangla Translation of Comic Book: “Enlighten Your Body Clock**
  - Authored with Colline and Dr. Manuel Spitschan



## MANUSCRIPT UNDER PREPARATION

- Manuscript Under Preparation | 2021 ● **Cultural Adaptation and Psychometric Validation of Rotter’s I-E Scale**
  - Authored with Dr. Shamsul Haque
- Manuscript Under Preparation | 2022 ● **Cultural Adaptation and Psychometric Validation of Five factor Mindfulness questionnaire**
  - Authored with Dr. Shamsul Haque

## Light Exposure Behavior Assessment (LEBA): Development of a Novel Instrument to Capture light Exposure-Related Behaviours

• Authored with Rafael Robert Lazar, Juliette van Duijnhoven, Luc Schlangen, Shamsul Haque, Vineetha Kalavally, Celine Vetter, Gena Glickman, Karin Smolders, & Manuel Spitschan



## TRAINING

- **Level B: Advanced Psychometrics (60 Credits)**
  - 📍 Bangladesh Psychometric Society
  - GPA: 4.00 out of 4.00
- **Level A: Basic Psychometrics (60 Credits)**
  - 📍 Bangladesh Psychometric Society
  - GPA: 4.00 out of 4.00
- **Advanced Statistics for Biomedical Science**
- **Basic Statistics for Biomedical Science**
  - Academic Writing
    - Written and Oral Communication Skills for Biomedical Science
    - Grant Writing and Fellowship Applications in Psychological Science
    - Writing Skills for Graduate Students
    - Writing an Effective Literature Review
    - Intensive Writing Course for Science Communication
  - Statistical Tool
    - Introduction to R
    - Code Clinic R
    - Learning the R Tidyverse
    - R Programming in Data science
    - SPSS Statistics Essential Training
    - Excel Essential Training



## REFERENCES

- **Shamsul Haque, PhD**
  - 📍 Associate Professor, Department of Psychology, Monash University
  - Email: [shamsul@monash.edu](mailto:shamsul@monash.edu)
- **Vineetha Kalavally**
  - 📍 Associate Professor, School of Engineering, Monash University
  - Email: [vineetha@monash.edu](mailto:vineetha@monash.edu)