




MUSHFIQUL ANWAR SIRAJI

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/

Updated 2022-01-15

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., Psychology**
University of Dhaka  Department of Psychology
 - Thesis: Cultural Adaptation and Psychometric Validation of Rotter's I-E Scale
 - Psychometrically validated the Bangla Rotter'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 experiments 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

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 [masiraji](https://github.com/masiraji)
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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

Manuscript
Under
Preparation

2022

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

Psychometrics

- Level B: Advanced Psychometrics (60 Credits)
GPA: 4.00 out of 4.00
- Level A: Basic Psychometrics (60 Credits)
GPA: 4.00 out of 4.00

Statistics

- 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

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Monash University
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Vineetha Kalavally,

Associate Professor
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Monash University
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