

# MUSHFIQUL ANWAR SIRAJI




## Currently Searching for a Post Doctoral Research Position

I am a PhD research scholar currently looking for post-doctoral research opportunities. During my PhD years, I investigated the non-visual effects of light on human alertness and higher cognitive functions. I am also experienced in parametric and nonparametric statistical analysis and R language based psychometric analysis.


View this CV online with links at <https://masiraji.github.io/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., 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.Sc., 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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## 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 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. Vineetha Kalavally, Dr. Alexandre Schaefer 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, Dr. Juliette van Duijnhoven, Dr. Luc Schlangen, Dr. Shamsul Haque, Dr. Vineetha Kalavally, Dr. Celine Vetter, Dr. Gena Glickman, Dr. Karin Smolders, & Dr. Manuel Spitschan
- 2022 ● **Influence of Daytime Short-wavelength Dominant Electric Light Exposure on Human Alertness and Higher Cognitive Functions: A CIE So26-Based Pilot Study**  
CIE Australia Lighting Research Conference
  - Authored with Dr. Vineetha Kalavally 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 ● **Cultural Adaptation and Psychometric Validation of Rotter’s I-E Scale**
  - Authored with Dr. Shamsul Haque
- Manuscript Under Preparation ● **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, Dr. Juliette van Duijnhoven, Dr. Luc Schlangen, Dr. Shamsul Haque, Dr. Vineetha Kalavally, Dr. Celine Vetter, Dr. Gena Glickman, Dr. Karin Smolders, & Dr. 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, PhD

📍 Associate Professor, School of Engineering, Monash University

• Email: [vineetha@monash.edu](mailto:vineetha@monash.edu)