

# 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/>

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## CONTACT

✉ [mushfiqul.anwarsiraji@monash.edu](mailto:mushfiqul.anwarsiraji@monash.edu)  
🐦 [anwar\\_siraji](#)  
🌐 [masiraji](#)  
in [masiraji](#)  
📞 60173410394

## SKILLS

Systematic Literature Review	
Covidence	
R	
SPSS	
Project Management	
Data Visualization in R	
Illustrator	

## RESEARCH STRENGTH

Psychometrics, Qualitative and Quantitative Research, 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), Exploratory Factor Analysis, Confirmatory Factor Analysis, and Structural Equation Modeling.

## EDUCATION

- 2022 | 2019  
● **PhD. Candidate, Psychology**  
Monash University 📍 Jeffrey Cheah 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 📍 Jeffrey Cheah 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

- **Systematic Review**
- **Parametric and Non-parametric Statistics**
- **R Based Data Analysis**
- **Data Visualization**
- **Reproducible Manuscripts & GitHub Integration**



## SELECTED PUBLICATIONS

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

2021

### ● **Bangla Translation of Comic Book: “Enlighten Your Body Clock”**

- Authored with Colline and Dr. Manuel Spitschan

## PRESENTATIONS

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 S026-Based Pilot Study**

CIE Australia Lighting Research Conference

- Authored with Dr. Vineetha Kalavally and Dr. Shamsul Haque



## 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

Manuscript  
Under  
Preparation

### ● **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

- **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)