

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

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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), Exploratory Factor Analysis, Confirmatory Factor Analysis, and Structural Equation Modeling.

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
- 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

- **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

- **Vineetha Kalavally, PhD**

📍 Associate Professor, School of Engineering, Monash University

• Email: vineetha@monash.edu