




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://github.com/masiraji/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
- 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

DATA ANALYSIS

- Parametric and Non-parametric Statistics**
- R Based Data Analysis**
- Data Visualization**

CONTACT

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SKILLS

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

RESEARCH STRENGTH

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

PSYCHOMETRICS

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

- **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 Kalavally, Dr. Alex and Dr. Shamsul Haque
 - A systematic review of IIL literature
- 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 Kalavally, 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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Department of Psychology,
Monash University
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Vineetha Kalavally,

Associate Professor
School of Engineering,
Monash University
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