MUSHFIQUL ANWAR SIRAJI

Currently searching for a job related to Psychometrics

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, 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 2022-01-16

🎓 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 Kalavaly, 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 S026-Based Pilot Study**

CIE Australia Lighting Research Conference

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

2021 — **Bangla Translation of Comic Book: "Enlighten Your Body Clock"**

- Authored with Colline and Dr. Manuel Spistchan

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

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Vineetha Kalavally, PhD
📍 Associate Professor, School of Engineering, Monash University

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