

# Dola Pathak

Academic Specialist and Statistical Consultant

Michigan State University

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## SUMMARY

- Extensively worked in designing studies, modeling, and analysis of healthcare data.
- Working with Big healthcare databases (National Readmission Database, Cerner healthcare database) and credit-card databases.
- Highly skilled in data visualization, machine learning, leadership, and facilitating teamwork.
- Excellent oral and written communication skills.
- Strong computing background.

## EXPERIENCE

**Michigan State University (MSU), East Lansing, MI — Academic Specialist/Assistant Professor**

2019 – PRESENT

- Teach undergraduate and MS/Ph.D. courses (Advanced Modelling, Probability and Statistics for Engineering, Introduction to Data Science using R)
- Train students to use R (base R, tidyverse), statistical inference, regression, and basic ML algorithms.
- As the Statistical Consultant and the Data-warehouse manager for MSU's College of Nursing, work with faculty and guide the Ph.D./ DNP students with their grant proposals, the study design, manuscript writing, and analysis of healthcare data.
- Develop courses for the Undergraduate Major in Data Science and guided three Data Science Honor's projects.
- Co-authored a Mathematical Statistics (with R) textbook for the Undergraduate students in Statistics and Data Science major.
- Collaborated with a team of Doctors from the University of New Mexico in analyzing their COVID-19 database.

## SKILLS

- Statistical Modelling (Regression, GLMM, ML techniques)
- Strong written and oral communication skills
- Mentoring team members
- Languages: Python, R and SAS, also have basic knowledge of JAVA, C++, PLSQL, MATLAB
- Applications: SQL, SPSS, SAS, MS-Office
- Working with Big healthcare data (National Readmission Database, Cerner healthcare database)
- Financial modeling
- Transparency in modeling

- Collaborate with research scientists from Sweden and Spain on analyzing data on the coronary artery disease/ heart failure patient population.

**Premier Bankcard, Sioux Falls, SD — Business Analyst**

January 2017 – September 2017

- Analyzed, developed, proposed, and monitored portfolio strategies while reducing losses and optimizing revenue
- Evaluated portfolio and operational performance
- Made recommendations for improvement
- Created new and improved methodologies that encouraged the client to maintain good credit scores.
- Solicited the input of others within the organization and kept up with industry advances by coming up with models which would lead to growth.

**University of Nebraska, Lincoln, NE — Graduate Instructor/Research Assistant**

2012– 2018

- Taught undergraduate courses (Introduction to Statistics, Probability, and Statistics for Engineering)
- Studied the heart rate variability of leghorn chickens using non-linear analysis. Primary responsibilities include cleaning, analyzing, interpreting, and presenting the data.
- Mentored new Graduate Assistants.

**EDUCATION**

**University of Nebraska at Lincoln, NE — PhD (GPA: 3.9)**

2012 - 2018

- Statistics

**University of Nebraska at Omaha, NE — MS (GPA: 4)**

2008 - 2010

- Mathematics.

**STATISTICAL CONSULTANT/ CO-INVESTIGATOR**

- Consequences of COVID-19: Post-COVID Symptoms and Management” (2021 BCBSM Grant # 2021020026). Co-investigator in the grant. Responsible for designing the study,

and data ethics

**AWARDS**

- Statistics Graduate Student Fellowship, the University of Nebraska at Lincoln.
- Milton. E. Mohr Fellow, Institute of Agriculture and Natural Resources (IANR), UNL.
- Regent Scholar, the University of Nebraska at Omaha.
- Advantage Scholarship for International Student, the University of Nebraska at Omaha.

**LANGUAGES**

English, Assamese, Hindi, Bengali

**MEMBERSHIPS**

- American Statistical Association.
- Organizing committee member, Women Plus Data Science
- R Ladies of East Lansing

implementation, and analysis of the data.

- **Effects of bright light on co-occurring cancer-related symptoms in breast cancer survivors: A personalized intervention (R15NR016828).**

Statistical consultant for the NIH grant. Analysis and dissemination of results.

- **Heart-eXg study**

An international multi-center, randomized, parallel-group study on the effects of exergaming to reduce sedentary time in inactive patients with heart failure. (Sweden, Israel, Italy)

### **PUBLICATIONS**

List of peer-reviewed publications available at:

[Dola Pathak - Search Results - PubMed \(nih.gov\)](#)

[Google Scholar](#)