Mostafa M. Rezaee

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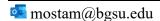📧 mostam@bgsu.edu   📞 +1 (419) 315-7481   🏠 2610 CALVERTON RD, TOLEDO, OH, 43607.

Summary

- **Data Science Intern** at Sanofi in Cambridge, MA, focusing on Wearable Medical Devices.

- **Data Science PhD Candidate**: Please see my LinkedIn recommendations.

- **Deep Learning**: As a Ph.D. student in Data Science, the curriculum was rigorously designed to equip students with skills for various AI projects, including **Computer Vision**, **NLP**, **LLMs**, and **RAG** (Retrieval Augmented Generation).

- **Publications**:
  - 30 publications, including 9 Journal articles & 21 full conference papers.
  - 6 under-preparation projects are outlined at SaveBirds.
  - All the publications are computational studies using modeling and simulation approaches.

- **SaveBirds.app**: The www.SaveBirds.app is my Ph.D. project. SaveBirds is a Data Science web application that helps manage 40,000 Protected Areas (PAs) across North America. SaveBirds fuels the US$75 billion wildlife-watching industry indirectly.

Education

- **Data Science**, **PhD**, Bowling Green State University, Ohio, USA.   2019-Present
- Physics, MSc & BSc.

Professional Experience

Summer 2022: **Data Science intern** at Sanofi in Cambridge, Massachusetts, USA.

- Focusing on Wearable Medical Devices:

  - Developed a Python package to implement multiple algorithms and run diagnostics.
  - Preprocessed Accelerometer data for training LSTM models for later use in wearable medical devices.
  - Contributed to decision-making as a Digital Health Analytics (DHA) team member.
  - Gained invaluable insights into FDA regulatory frameworks for Digital Health Technologies (DHT).

2019 – Present: **Data Science Research Assistant**, Bowling Green State University, Ohio, USA.

- **www.SaveBirds.app**

  The "www.SaveBirds.app" is my Ph.D. project. SaveBirds is a Data Science web application that helps manage 40,000 Protected Areas (PAs) across North America. SaveBirds fuels the US$75 billion wildlife-watching industry indirectly.

- **Bird Atlas Generator**

  Developed the first publicly available comprehensive Bird Atlas Generator of North American Breeding Bird Survey data, which is available at SaveBirds.

Data Science Skills & Courses

Computer Vision, **NLP**, **LLMs**, and **RAG** (Retrieval Augmented Generation)

Python (TensorFlow, Scikit-learn, Pandas, NumPy, ipywidgets, GeoPandas)

R, SQL, C++, FORTRAN, MATLAB, and acquainted with High Performance Computing (HPC)

Machine/Deep Learning	Data Science Programming	Statistical Learning I & II
Data Mining	Data Science Exploration	Statistical Algorithms
Advanced Data Mining	Data Science Communication	Statistical Graphics
Time Series Analysis	Exploratory Data Analysis	Probability Theory
Regression Analysis	Sampling Design	Mathematical Statistics