

Maria Alexandra Theodorescu

CS Graduate Assistant, DePaul Data Science Center

EXPERIENCE

Capgemini, Houston, TX — RISE Technology Consulting Intern (On-site)

Aug 2023

- **Collaborated** with peers nationwide at the RISE leadership program - an immersive experience in technology consulting - on a rapid-turnaround case study that culminated in a product launch plan, technical architecture, and prototype for a web application.
- **Delivered a tangible project** by exercising **teamwork, critical thinking, and problem-solving** skills and presented it to a panel of judges.
- Explored Capgemini's resources and design centers, gaining insights into global technology consulting and potential career paths.

DePaul University, Chicago, IL — Undergraduate Research Assistant, Data Science Center

Feb 2020 – Jul 2023

- Implement **Materials Science** research using various data clustering techniques
 - **Research Problem:** Find phase regions efficiently in X-ray diffraction (XRD) data
 - **Approach:** Leverage cluster method agreement as uncertainty to guide annotation of clusters by domain experts and to identify the correct number of phase regions

DePaul University, Chicago, IL — Assistant for the Associate Provost for Research

Oct 2020 – Jul 2023

- **Create materials** for research and innovative initiatives (DePaul-RFU Artificial Intelligence in Biomedical Discovery)
- **Develop, maintain, and redesign** [Visual Informatics and Data Analytics Group](#) (VIDA) website
- **Analyze internal grant data** using natural language processing (NLP) topic modeling to quantify outcomes and impact
- **Coordinate** logistics of the [virtual PI meeting](#) in 2021; **Provide support** for the National Science Foundation Computer Information Science and Engineering (NSF CISE) [Research Experiences for Undergraduates](#) (REU) site in medical informatics
- **Design** the inaugural biannual Office of Research Services (ORS) [Newsletter](#)

SKILLS

- Python, R, Java, JavaScript, SQL
- HTML, CSS, JQuery
- Research, Data Analysis
- Machine Learning techniques and algorithms
- Jupyter, VS Code, Eclipse, IntelliJ IDEA
- Teamwork, adaptability, communication, creativity, time management, patience

EDUCATION

DePaul University, Chicago, IL — B.S Computer Science, Summa Cum Laude

Computer Science, Software Development Concentration

Data Science Minor

3.98/4.00 GPA

ACHIEVEMENTS

- [3rd Place Award](#) Chicago Area Undergraduate Research Symposium (CAURS), April 2022
- Motorola Solutions Foundation [Scholarship Award](#), January 2022
- DePaul Scholars Award, [Dean's List](#) 2019-present
- [DePaul STEM Research Showcase](#) Presentation, April 2021

PUBLICATIONS

- "Leveraging Interpretable Features and Clustering Agreements for Assistive Materials Discovery". In **2023 Fifth International IEEE Conference on Transdisciplinary AI (TransAI)**, Laguna Hills, California, September 25-27, 2023

RESEARCH PROJECTS

- Human-In-The-Loop Clustering Dashboard for Materials Structure Exploration — ***National Conferences on Undergraduate Research (NCUR) 2021*** Poster Presentation

LANGUAGES

- English
- Romanian
- Spanish

References available upon request.