Maria Alexandra Theodorescu

243 S Wabash Ave, Chicago, IL 60604

[Visual Informatics and Data Analytics](#) group member
at DePaul University's Data Science Center

EXPERIENCE

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

Feb 2020 – Present

- 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 – Present

- **Create materials** for research, creative activities, and innovation initiatives (DePaul-RFU Artificial Intelligence in Biomedical Discovery and Healthcare Lunch & Learn 2022)
- **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 at DePaul University and University of Chicago
- **Design** the inaugural biannual Office of Research Services (ORS) [Newsletter](#)

SKILLS

- Python, Java, JavaScript
- HTML, CSS, JQuery
- Research, Data Analysis
- Machine Learning techniques and algorithms
- Jupyter, VS Code, Eclipse, IntelliJ IDEA
- Adobe InDesign, GIMP

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

LANGUAGES

- English
- Romanian
- Spanish

DePaul University, Chicago, IL — *Computer Science*

September 2019 - Present (Senior)

Computer Science, Software Development Concentration
Data Science Minor

3.98/4.00 GPA

Neuqua Valley, Naperville, IL — *High School*

August 2015 - May 2019

Indian Prairie School District (IPSD) Scholar, Advanced
Placement (AP) Scholar, AP [WE Service](#) Recognition, [Girls Who Code](#) program

RESEARCH PROJECTS

Human-In-The-Loop Clustering Dashboard for Materials Structure Exploration — *National Conferences on Undergraduate Research (NCUR) 2021 Poster Presentation*
https://apps.cur.org/ncur2021/search/Display_NCUR.aspx?id=110627

References available upon request.