

# Marianela Landi

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## EDUCATION

### University of Illinois

*Masters in Data Analytics*

GPA: 3.9

Relevant Coursework: Machine & Deep Learning, Data Visualization, Big Data Analytics, Advanced Statistical Methods.

**Springfield, IL**

*Aug. 2022- May 2024*

### College of Coastal Georgia

*Bachelor of Science in Mathematics and minors in Economics and Data Analytics*

GPA: 3.9

Honors: Magna Cum Laude, Student Hall of Fame, Outstanding Senior in Mathematics, President's List (All Semesters).

**Brunswick, GA**

*Aug. 2019- May 2022*

## PROFESSIONAL EXPERIENCE

### Research Assistant Data Analyst

University of Illinois

**Aug. 2023 - Present**

*Springfield, IL*

- Led development of end-to-end machine learning/AI pipelines from data visualization and feature engineering, to model development, evaluation, and deployment.
- Work independently and collaboratively as part of a team of three professors and four students on cutting-edge AI and data analytic projects to recommend potential buyers for UIS shows and to create an AI chatbot that assist with answering to common questions.
- Applied advanced skills in R, SQL, Python, and ML libraries, including Tensorflow, within Google Colab notebooks to implement data science techniques.

### System Analyst

Department of Innovation and Technology, Illinois Department of Revenue

**Aug. 2022 - Present**

*Springfield, IL*

- Code, review and test codes in VB.net and SQL to maintain or improve the performance of the software GenTax and to create requested reports with specific information from the database, focusing on Returns & Payments.
- Analyze user requests and research to determine the changes needed in the software to meet their needs.
- Communicate effectively and professionally with ten experienced team members, collaborating with cross-functional teams to address user requests.
- Test, maintain and recommend software improvements to ensure strong functionality and optimization.
- Troubleshoot software errors, debug and review codes to be able to fix them, demonstrating strong analytical problem-solving skills.

### Assistant Tennis Director

Ocean Reef Club & Pine Hollow Country Club

**May. 2022 - Aug. 2023**

*North Key Largo, FL | East Norwich, NY*

- Customized coaching and training programs for players, ensuring alignment with their goals and expectations.
- Supervised Pro Shop activities, managing maintenance tasks, and providing outstanding customer service to enhance customer experience.
- Demonstrated strong organizational and communication skills coordinating lessons, schedules, and handling budgetary and inventory responsibilities.

### Supplemental Instructor Leader and Academic Tutor

College of Coastal Georgia

**Aug. 2019 - May 2022**

*Brunswick, GA*

- Mentored students in Data Science and Mathematics upper-level courses, fostering student comprehension, and learning skills.
- Strategically organized and led weekly study sessions for a cohort of 15 students, contributing to an outstanding 93% passing rate among participants.
- Achieved certification through the International Tutor Training Program in 2022, showcasing a dedicated commitment to maintaining tutoring excellence.

## PROJECTS

Beyond the Alphabet: Decoding the Hidden Language of RNA Structure.

- Implemented the Ribonanza RNA Folding model to predict RNA structure and chemical mapping profiles.
- Analyzed Kaggle's Stanford Ribonanza RNA Folding dataset with 806,573 sequences, addressing challenges in data diversity and length.
- Final project for MS Deep Learning course, showcasing practical application of deep learning algorithms in bioinformatics.

## PUBLICATION

Marianela Landi, et al., "Zeros of Complex Random Polynomials Spanned by Bergman Polynomials," *Involve* 14 (2021): 271-281.

- Interpreted and analyzed quantitative and qualitative data using Wolfram Mathematica for computations.
- Expressed the results in the form of manuscript using LaTeX. The document has been published in the journal Involve.
- Presented the findings at the Young Mathematicians Conference hosted by Ohio State University.

## SKILLS, AWARDS, AND ACTIVITIES

- **Skills:** Python, SQL, R, VB.NET, Java, HTML, Tableau, LaTeX, Microsoft Office Suite, Wolfram Mathematica.
- **Languages:** English, Spanish.
- **Awards:** International Tutor Training Program Certification, ITA All-Academic Team & Scholar-Athlete, Student-Athlete of the Year Nominee.
- **Organizations:** Kappa Mu Epsilon president, STEAM Collaborate Mentor, Mathematics and Data Science Club president, Student Athlete Leadership Committee.
- **Extracurricular Activities:** Volunteer youth program coordinator at Safe Harbor, Brunswick GA.