

# Fermin Ramos

| Aurora, IL | 505-583-5309 | ramosfer645@gmail.com |  
| linkedin.com/in/fermin-ramos | github.com/FerminRamos |

## Education

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The University of New Mexico  
Bachelor of Science in Computer Science with a minor in Statistics

### Honors & Activities

Lobo Rainforest Hackathon 2024, Winner  
Lobo Rainforest Hackathon 2023, Winner  
UNM's Chemical Engineering AICHE Car Team, Member (2022 – Present)  
The National Society of Leadership and Success (honor society), Member  
School of Engineering Peer Mentor, 4x Semesters

## Experience

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**Data Analyst**, Mentorship 02/2024 - 04/2024  
Central Intelligence Agency (CIA)

- Trained on intelligence analysis, strategic planning, and case briefings.
- Refined pattern recognition skills by identifying trends in intelligence data and presenting findings in concise, high-impact reports.
- Worked in timed decision-making simulations, enhancing composure and accuracy under deadlines.
- Increased audience engagement and comprehension by tailoring presentations to various expertise levels, emphasizing details for experts and simplifying key takeaways for broader audiences.

**Data Analyst and ArcGIS Visualizations**, Research Assistant 12/2022 - 05/2024  
University of New Mexico, College of Nursing

- Responsible for data extraction, processing, and mapping for a Geographic Information Systems (GIS) program meant to identify weak points in our national disaster preparedness programs, for universities and hospitals alike. (<https://github.com/C-DRAPS>)
- Scaled the project's dataset collection from 1 dataset to more than 400, including sources from the FBI, EPA, CCNE, NLN, Census, and FEMA, resulting in significantly more accurate statistical analysis and insights.
- Learned a wide array of data extraction techniques including APIs, web scraping with Selenium, and automating human mouse movements, leading to over 1 million

collected data points since my arrival.

- Constructed over 500 GIS layers currently listed on our ArcGIS website (<https://arcg.is/Oq4ey4>) and optimized project updating times by 90% (from 10 minutes down to 1 minute) by restructuring our project to a modularized system.

## Publications and Posters

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Rogers, Astle, Potter, Couig, **Ramos**. Nursing for Planetary Health – Actualizing the Planetary Health Education Framework, accepted at the 2024 Planetary Health Summit and Sixth Annual Meeting (PHAM) in Malaysia.

Lavin, Couig, Kelley, Schwartz, **Ramos**. Healthcare Impacts Associated with Federally Declared Disasters–Hurricanes Gustav and Ike, *International Journal of Environmental Research and Public Health*, 2023 Apr 4;20(7):5388. doi: 10.3390/ijerph20075388.

## Skills and Certifications

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| Python (advanced) | SQL (proficient) | R (proficient) | ArcGIS (proficient) |  
| Tableau (familiar) |