

ERIKA HARTMAN

PROFESSIONAL SUMMARY

Process-driven analyst with AI/ML knowledge and project management experience. Industry experience in simulation tools and various AI/ML fields including reinforcement learning and large language models. Active security clearance, and a research background in computational cosmology. Excellent team player with strong interpersonal communication skills.

WORK HISTORY

Space Systems Analyst, 08/2021 to Current

Stellar Science Ltd Co - Albuquerque, NM

- Performed data analyses on customer provided data with software developed in-house.
- Lead development role for software products for machine learning analyses, including one that reduces data needs for training ML surrogates by up to 90%.
- Lead successful proposal efforts for 3 Phase I and Phase II Small Business Innovative Research programs (SBIRs), and assisted on 2 other successful SBIR proposals and one larger contract proposal.
- Currently leading 4 Phase I and Phase II SBIR efforts primarily focusing on reinforcement learning, with teams of up to 4 people.

Graduate Research Assistant, 01/2015 to 11/2020

University of Arizona - Tucson, AZ

- Developed code for performing cosmology analyses on large data catalogs.
- Generated and analyzed mock data catalogs for developing code and testing statistical models.
- Performed Bayesian analyses via Markov Chain Monte Carlo for multi-dimensional likelihood minimization.

Undergraduate Research Assistant, 05/2013 to 07/2014

The Ohio State University - Columbus, OH

- Developed code for analyzing data in order to fit model to data.
- Used SQL to query database for relevant data.
- Used regression techniques to compare data to various models.

Undergraduate Researcher, 06/2012 to 08/2012

The Ohio State University - Columbus, OH

- Developed code in C/C++ to test hardware responses.
 - Created visualizations of test results.
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EDUCATION

CONTACT

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WWW: [Bold Profile](#)

SKILLS

- Python, C++, SQL, Mathematica, Advanced Framework for Simulation Integration and Modeling (AFSIM)
 - Technical Documentation
 - HTML, CSS, Markdown, reStructuredText, LATEX
 - Linux, macOS, Windows
 - Git, Bash, Microsoft Office, LibreOffice, Keynote, Numbers, Pages
 - Reinforcement Learning, Machine Learning
 - Technical Analysis, Technical Writing
 - AGILE development
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WEBSITE, PORTFOLIO, PROFILES

- <https://wagoner47.github.io/>
 - <https://github.com/wagoner47>
 - <https://orcid.org/0000-0002-9461-944X>
 - www.linkedin.com/in/erika-lynn-hartman-138178188
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PUBLICATIONS

I have 11 publications including conference proceedings, published code, theses, and papers. You can find the full list on my Google Scholar page: <https://scholar.google.com/citations?user=9ffsq-UAAAAJ>

Ph.D., Physics, 05/2020

University of Arizona - Tucson, AZ

- Dissertation: Enabling Galaxy Clustering and Dynamics as Tools of Precision Cosmology (<http://hdl.handle.net/10150/650777>)
- Advisor: Dr. Eduardo Rozo

Bachelor of Science, Physics; Astronomy And Astrophysics, 05/2014

The Ohio State University - Columbus, OH

- magna cum laude graduate
 - with honors in the Arts and Sciences
 - with Honors Research Distinction
 - Thesis: Testing Stellar Models for M Dwarfs (<http://hdl.handle.net/1811/60400>)
 - Advisors: Dr. Jennifer Johnson, Dr. Sarah Schmidt
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