Dr. Craig N. Yanitski

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Introduction

Much of the development of my coding skills have been accomplished on my own throughout the development process of my code, kosmatau3d. This has required me to learn quickly and adapt my approach according to the needs of the project. While my experience thus far has been in science, my ability to learn on-the-job is of great use as I now transition to industry. I look forward to building my skills as a part of your team.

Computing Programs / Languages

Python ● Golang ● C/C++ ● Java ● Javascript ● assembler (if necessary) ● bash/zsh/dash ●
Make ● Markdown/HTML/YAML ● SQL ● GIS

Professional Skills

Data Science • Machine Learning • Software Engineering • Agile Development • Statistics • Mathematics • Calculus • Science Communication

Employment

Mercor / Outlier

Software engineer / physicist

- human feedback for reinforcement learning
- evaluation of prompt responses
- evaluation of LLM reasoning

I. Physikalisches Institut, Universität zu Köln

Research assistant / guest researcher

- use statistical methods (including machine learning processes) to find trends in large datasets
- assistance in management of a non-relational database
- push computationally-heavy scripts to a computing cluster
- teach statistics to 100 Master-level students
- host software workshops for colleagues (Ph.D. and postdoc level)

Crop Diversification Centre—North

Summer student

- run and record results from field experiments (plant pathology)
- organise survey trips throughout Alberta

2019—2024

2014 - 2017

Education

boot.dev Back-end development career path	2024-present
I. Physikalisches Institut, Universität zu Köln Doctorate in Astrophysics (2023)	2019—2023
Radboud Universiteit Nijmegen Master's Degree in Physics and Astronomy (2019)	2017—2019
University of Alberta Bachelor's Degree in Science with Honours in Astrophysics (2017)	2012—2017
Northern Alberta Institute of Technology Diploma in Electronics Engineering Technology (2012)	2010—2011

Projects

<pre>mescli (Golang/PostgreSQL)</pre>	2024—present ent,
 kosmatau3d (python) a novel simulation of the emission from interstellar gas ray tracing through voxels (3D pixels) interfacing with remote database skills: Python, backend development, statistics, data science, calculus 	2019—present
Various projects in computational astrophysics – skills: statistics , data science	2016—2019
Various electronics projects (robots, sensors, etc.)	2010—2011

Volunteering

Various presentations and initiatives explaining science to the public	2018-2024
Safewalk (University of Alberta Student Union)	2012 - 2017
Reach Out Volunteers	2014