

Morgan J. Henderson

Juneau, AK 99801

Phone: (406) 381-5849

e-Mail: morgan.james.henderson@gmail.com

RELEVANT SKILLS

Programming Languages

Python, C++, MATLAB, C#, SQL, HTML, CSS, JavaScript, TypeScript, R

Machine Learning

Generative & recommender models, machine vision, reinforcement learning, uncertainty quantification, surrogate modeling, controls automation

Mathematics & Computer Science

Kalman & other Bayesian filters, optimization, parallel programming, eigen-analysis, numerical integration, applied statistics

Physics & Engineering

Vibrational analysis & lattice dynamics, magnetostatics, finite elements, RF modeling & simulation, experimental controls software, molecular dynamics

EMPLOYMENT

Associate Scientist

June 2022 – Present

RadiaSoft LLC, Advanced Development Programs Group

Research / Teaching Assistant

August 2018 – May 2022

University of Colorado at Boulder

Analyst / Programmer I & II

November 2017 – August 2018

State of Alaska, Department of Education and Early Development

Visiting Researcher

June 2017 – August 2017

NASA Frontier Development Lab, the SETI Institute

EDUCATION

University of Colorado at Boulder

August 2018 – May 2022

M.S. Aerospace Engineering Sciences, primary emphasis in Fluids, Structures & Materials, secondary emphasis in Automatic Controls

Professional Certificate, Engineering Management in the Aerospace Industry

Stanford University Online

May 2022 – June 2022

Professional Certificate, Machine Learning

University of Montana

August 2012 – May 2017

B.A. Physics, focus in Astronomy (High Honors)

B.A. Mathematics, focus in Applied Mathematics (High Honors)

WEB & MEDIA

Website

Visit [my personal website](#), which I built from scratch and host through GitHub

GitHub

Browse [my GitHub repos](#) and review my contributions

LinkedIn

Check out [my LinkedIn page](#), and feel free to connect with me there

Videos

[RadiaSoft webinar, hysteresis modeling \(virtual, 2022\)](#)

[NASA FDL final talks \(Intel Auditorium, Santa Clara CA, 2017\)](#)

[Senior thesis talk \(University of Montana, Missoula MT, 2017\)](#)

[SETI Institute REU lightning talks \(Microsoft Auditorium, Mountain View CA, 2016\)](#)