

# Haniye Kashgarani

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📍 422b Artificial Intelligence Lab, EERB Bldg, University of Wyoming, Laramie, WY, United States

👉 <https://www.cs.uwyo.edu/~hkashgar/> 📄 <https://scholar.google.com/citations?user=RYYXFKPQAAAAJ>

in <https://www.linkedin.com/in/haniyeka/> 🌐 <https://github.com/haniyeka>

## EDUCATION

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Aug 2019 – present  
Laramie, Wyoming **University of Wyoming**, Ph.D. in Computer Science  
GPA: 3.71

Jan 2013 – May 2017  
Tehran, Iran **Shariaty Technical College of Tehran**,  
B.Sc. in Computer Engineering (Software Engineering)  
GPA: 3.52

## EXPERIENCE

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Aug 2019 – present  
Laramie, United States **Research Assistant, Instance Specific Algorithm Portfolio Selection and Scheduling on Parallel Machines for solving Combinatorial Problems**,  
University of Wyoming  
Keywords: Combinatorial Optimization, Algorithm Selection, Parallel portfolio scheduling, HPC (Slurm, parallel computing, conda), python (Numpy, Pandas, matplotlib, plotly, sklearn), R (MLR, ASlib, LLAMA, parallel, parallelMap, plotly, ggplot2)

May 2022 – Jul 2022  
Boulder, United States **Summer Internships in Parallel Computational Science, Exploring the performance of GeoCAT data analysis routines on GPUs**,  
National Center of Atmospheric Research (NCAR)  
Keywords: GPU computation, HPC (PBS), python (CuPy, Xarray, Dask, Numba, matplotlib)

Jun 2021 – Jul 2021  
Laramie, United States **Teaching Assistant, WYSTACK (Supporting Teachers and Computing Knowledge)**, University of Wyoming  
Keywords: HPC, Machine Learning

May 2020 – Feb 2021  
Laramie, United States **Summer Internship, Animal Identification**, University of Wyoming  
Keywords: Convolutional Neural Network, Neural Network Architectures, Image classification, Shapley values, python, Keras, Tensorflow

Dec 2017 – May 2019  
Tehran, Iran **Freelancer .NET developer**, .NET Web Developer

May 2017 – Dec 2017  
Tehran, Iran **.NET Web Developer**, EGS (Ertebat Gostar Sabat) Company

Jan 2017 – May 2017  
Tehran, Iran

## **Undergraduate project, Designing and Implementing an Online C2C E-commerce Website for Selling Books,**

Shariaty Technical College of Tehran

Keywords: C#, ASP.NET MVC, ASP.NET Web API, ADO.NET, Entity Framework, LINQ, MSSQL, MongoDB

## **RESEARCH INTERESTS**

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Machine Learning, Artificial Intelligence, Deep Learning, Meta-learning, AutoML, Optimization, Algorithm Selection, Hyperparameter Optimization, Multicore Programming

## **PUBLICATIONS AND POSTERS**

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**Is Algorithm Selection Worth It? Comparing Selecting Single Algorithms and Parallel Execution,**  
AAAI Workshop on Meta-Learning and MetaDL Challenge [↗](#)

Authors: Haniye Kashgarani, Lars Kotthoff

**Exploring performance of GeoCAT data analysis routines on GPUs,**

NCAR SIParCS Poster Presentation and RMACC HPC Symposium 2022 and Super Computing 2022

Authors: Haniye Kashgarani, Cena Miller, Supreeth Suresh, Anissa Zacharias

## **SKILLS**

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### **Programming**

Python (CuPy, Xarray, Dask, Keras, Scikit-learn, SHAP, NumPy, Pandas, matplotlib, plotly)  
R (MLR, ASlib, LLAMA, plotly, ggplot2)  
Object-Oriented Programming  
C++ (OpenMP, CUDA)  
Android programming with Java  
C#.NET (ASP.NET MVC, ASP.NET Web API, ADO.NET, Entity Framework, LINQ, AJAX)  
SQL, CSS, jQuery

### **Operating System**

Linux, Windows

### **IDEs**

Jupyter lab, Spyder, Rstudio, Android Studio, Microsoft Visual Studio, Microsoft SQL Server Management Studio

### **Typesetting**

LaTeX, Microsoft Office

### **High performance computing (HPC)**

Bash Scripting, Slurm, PBS

## **AWARDS AND GRANTS**

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Aug 2022

**Winner of the Poster Competition, 2022 RMACC HPC symposium**

For: Exploring the performance of GeoCAT data analysis routines on GPUs

## GRADUATE COURSES

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Intro to Artificial Intelligence, Advanced Topics in AI, Multicore Programming, Deep Reinforcement Learning, Regression Analysis, Randomness in Computation, Mobile Programming, Advanced Mobile Programming, Analysis of Algorithm, Computer Security, Blockchain

## CERTIFICATES

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**Neural Networks and Deep Learning** 

**GRE**  
Grade: 322, Date: Nov 26th, 2018

**TOEFL**  
Grade: 97, Date: Aug 12th, 2018

## LANGUAGES

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- English
- Persian

## INTERESTS

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Photography • Hiking • Traveling • Movies • Music

## REFERENCES

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**Dr. Lars Kotthoff**, *Assistant Professor*, University of Wyoming  
larsko@uwyo.edu

**Dr. Suresh Muknahallipatna**, *Professor and Graduate Coordinator*, University of Wyoming  
sureshm@uwyo.edu