
AUSTIN OKRAY
1908 Reynolds Street Apt D
Laramie, WY 82072
(307) 257-4363
aokray@uwyo.edu
www.austinokray.xyz

EDUCATION

University of Wyoming

Laramie, WY

Seeking Bachelor of Sciences in Computer Science with Minors in Statistics and Mathematics

Anticipated Graduation Date: Spring 2020

- Head Undergraduate Research Assistant in the University of Wyoming Machine Learning Group
- Member of Data Science Club

WORK EXPERIENCE

Teton Simulation Software

Laramie, WY

Machine Learning/Optimization and Software Development Intern

October 2019 – Present

Expected duties include utilizing and developing machine learning methods and optimization packages with Python to solve problems related to strengthening/improving 3D printed parts. Additional expected duties include developing and maintaining software in Python critical to the infrastructure of the company.

University of Wyoming Computer Science Department

Laramie, WY

Undergraduate Research Assistant

May 2018 – Present

Researching social bias reduction in machine learning models. Research topics include feature selection and kernel methods for bias reduction. Implemented algorithms from academic papers and previously established methods. Attended conferences, presented original works, gave presentations on academic papers, progress, and newly researched algorithms.

University of Wyoming Computer Science Department

Laramie, WY

Teaching Assistant

September 2019 – Present

Working with Dr. Chao Lan in COSC4550: Introduction to Artificial Intelligence to grade student work, give tutorial lectures to the class, and answer student questions on homework and concepts.

University of Wyoming Information Technology

Laramie, WY

Database Developer

May 2017 – September 2019

Utilized SQL, Groovy, Java, Javascript, HTML, REST APIs, and PL/SQL to implement and maintain various projects. Maintained healthy code structure with Git at both organization level and in small team settings. Worked extensively with third-party (Ellucian) software, documentation, and support tickets to resolve internal University of Wyoming problems. Cooperated frequently with clients to determine and fix problems, and to test solutions.

PUBLICATIONS

- A. Okray, H. Hu, C. Lan. Fair Kernel Regression via Fair Feature Embedding in Kernel Space, International Conference on Tools in Artificial Intelligence, 2019.
- Z. Wang, S. Muknahallipatna, M. Fan, A. Okray, C. Lan. Music Classification using an Improved CRNN with Multi-Directional Spatial Dependencies in Both Time and Frequency Dimensions, International Joint Conference on Neural Networks, 2019.

SKILLS AND ACHIEVEMENTS

- Session Chair at IJCNN 2019
- Proficient in Python, R, SQL, Java, Groovy, PL/SQL, Git, Javascript, HTML, and LaTeX.
- Knowledgeable in many Python libraries, notably scikit-learn, NumPy, and Matplotlib
- Adept at implementing non-trivial algorithms, notably for machine learning
- Co-reviewer under Dr. Chao Lan for ICBK'19, IEEE Big Data'19

RELEVANT COURSEWORK

- COSC 4555: Machine Learning
- COSC 4550: Introduction to Artificial Intelligence
- EE 5490: Convex Optimization
- MATH 4500: Matrix Theory
- STAT 4255: Math Theory of Probability

REFERENCES

- Available upon request.