

Brittany Cates

LinkedIn: www.linkedin.com/in/brittanylccates

Github: <https://github.com/blccates>

Email: brittanyl.cates@gmail.com

Website: blccates.github.io

Mobile: +1-970-779-0297

EXPERIENCE

- **Data Scientist** Fort Collins, CO
Mountain Data Group *May 2022 - Present*
 - **Neural Network Forecasting Model:** implementation of model to predict performance of elite athletes. Improved performance of model with automated tuning of hyperparameters, along with sorting and weighting samples according to predictive relevance
 - **Message Classification:** built NLP models for detecting dimensions of interest in text communications
 - **Applied Planning for Training Programs:** used machine learning techniques to design efficient training programs
 - **Data Analysis:** of economic measures in order to assess risk and resource accessibility
- **Student Unity Developer/VoxML Researcher** Fort Collins, CO
Colorado State University *August 2021 - May 2022*
 - **Researched and developed:** Researched and developed on the VoxWorld platform for embodied agents.
 - **Documented and tested:** Documented and tested tutorial implementations and built pipelines for multiple platforms, writing and maintaining documentation. Facilitated knowledge transfer of the platform to other researchers.
- **Corporate Travel Specialist** Remote
Oak Ridge National Laboratory *September 2014 - May 2022*
 - **Demonstrated customer service skills:** worked with Oak Ridge National Laboratory employees to arrange corporate travel in support of the scientific mission of the lab.
 - **Quickly adapted to changing software and procedures:** met evolving technological and security needs.
 - **Collaborated as a team:** worked with other travel specialists, administrators, auditors, and managers to meet the needs of the Oak Ridge National Laboratory and their scientists

EDUCATION

- **Colorado State University** Fort Collins, CO
Ph.D. - Computer Science; GPA: 4.0 *Expected May 2027*
Courses: Machine Learning, Natural Language Processing, Engaging in Virtual Worlds, Software Engineering, Operating Systems, Algorithms, Statistics, Linear Algebra, Calculus
- **Middle Tennessee State University** Murfreesboro, TN
Bachelor of Science - Psychology; GPA: 3.6
Courses: Advanced Research Methods, Advanced Statistics for Behavioral Sciences, Cognitive Psychology, Sensation and Perception

SKILLS SUMMARY

- **Skills:** Statistical Modeling, Data Analysis, Artificial Intelligence, Machine Learning, Natural Language Processing, Test Driven Development, Clean Code, Continuous Integration
- **Soft Skills:** Writing, Communication, Leadership, Time Management, Event Management
- **Tools:** Git, Jupyter Notebooks, SciPy, NumPy, Pandas, SQL, Keras, Unity, Blender, Visual Studio, Pycharm
- **Languages:** Python, C++, C, C#, Java, JavaScript, HTML, R

PROJECTS

- **Planning for Attacker Entrapment in Adversarial Settings:** Planning framework for generating defense strategy without attacker knowledge. Published/presented at ICAPS 2023 (November 2022)
- **Classification of MPII Human Pose Dataset using Neural Network:** Used a neural network to classify activities portrayed in images, based on the pose of the person in the image. Tech: Python, Jupyter Notebooks, NumPy, SciPy, Pandas (May 2021)
- **Unity Game Project:** Created 3D game using Unity game engine. Used Blender to develop and animate character models. Tech: Unity, Blender, C#. (December 2021)
- **Navigation Application:** Created a mobile, single page application and restful API services during a semester-long, team-based Agile software development project in a team setting. Tech: JavaScript, GitHub, ZenHub, Markdown, JUnit, Jest (December 2021)

ORGANIZATIONS AND LEADERSHIP

- **President ACM-W - Association of Computing Machinery's Council on Women in Computing:** Maintained relations with supporting companies, organizations, and faculty. Arranged events such as banquets and talks from companies. Managed other officers by delegating tasks.
- **Event Planner ACM - Association of Computing Machinery:** Helped presenters on campus, scheduled meeting rooms, monitored and managed meeting room, distributed weekly meeting notifications and forms.
- **Mentor CS[U] - Computer Science Mentorship Program :** Provided weekly mentoring to younger student to provide support for success in Computer Science.