

APPM 2350 Project 2: Hiking

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1 Introduction

Welcome to Colorado! Before we embark on this epic journey through the Lagrange Mountain range, we have compiled a travel packet for you to understand the trail system we will be hiking. We promise, after reading this trail analysis, you'll feel equipped to conquer this trail.

2 Basic Trail Information

The Lagrange loop is located a short drive from Boulder, CO. It is a $2.24mi$ hike, with $6033ft$ of elevation change. You better be in great shape, because we expect to finish this hike in roughly 1 hour 34 minutes. The hike consists of jaw-dropping views of Lake Mochi, with views of the sheer sides of Mount Adamore in the background. This trail is primarily used for speed hiking and trail running because the Honey Badger at Curtis Pass enjoys giving chase to trail users, a great endurance training regime for the super athletes of Colorado. Dogs are not allowed due to the Honey Badger, so leave your furry friends at home.

3 The Specs

Pictured in [Figure 1](#), you can see the general trail outline. The trail is a two-way path, so it can be taken from either direction from the trailhead. It is highly recommended that those with bad knees go counterclockwise around the loop, due to the steep section of trail on Mount Adamore.

Looking at [Figure 2](#), the general steepness of the trail can be assumed. Note that at Curtis pass, the trail travels uphill. This is where our friend the Honey Badger lives, and he despises the frequent visitors on his doorstep. Beware, because we will have to pick up

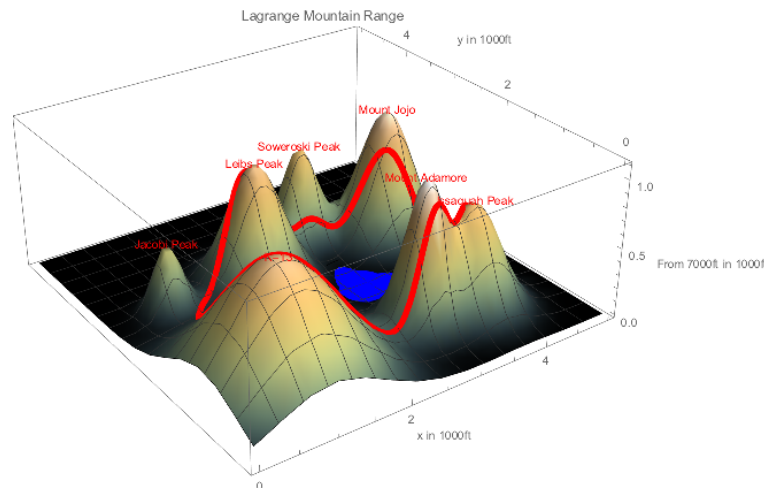


Figure 1: Lagrange Mountain Range with Selected Trail

our pace through here to avoid him. The trail slope is fairly steep, at a 60.5% grade, and the rate of elevation change is 2.9ft/hr . Hopefully those sea level lungs of you out-of-staters can handle the stress.

The steepest section of trail along the Lagrange Loop is 73 minutes into the hike, so make sure to save water and snacks for this section. The most leisurely section of the hike, with the smallest elevation change around 31 minutes into the hike. Although that is our steepest climb, and flattest section, the trail is highly variable, so we will be embarking on a number of climbs throughout. If you are wondering where those other climbs are in relation to the time we will spend out hiking, take a look at [Figure 4](#), so you know how many snacks and how much water to save. Hydrate or die folks!

Mount Adamore is the highest peak in the Lagrange Range, with an elevation of $8,100.8\text{ft}$. The path does not go to the peak, so the maximum elevation we will reach $7,934\text{ft}$, easily accomplishable with lungs acclimated to lower elevations. No altitude sickness today kids! We will be staying well under $9,000\text{ft}$.

[Figure 2](#) Nothing is more of a mountain adventure than swimming in an alpine lake! Lake Mochi sits in the valley created by the Lagrange Range, a pristine oasis surrounded

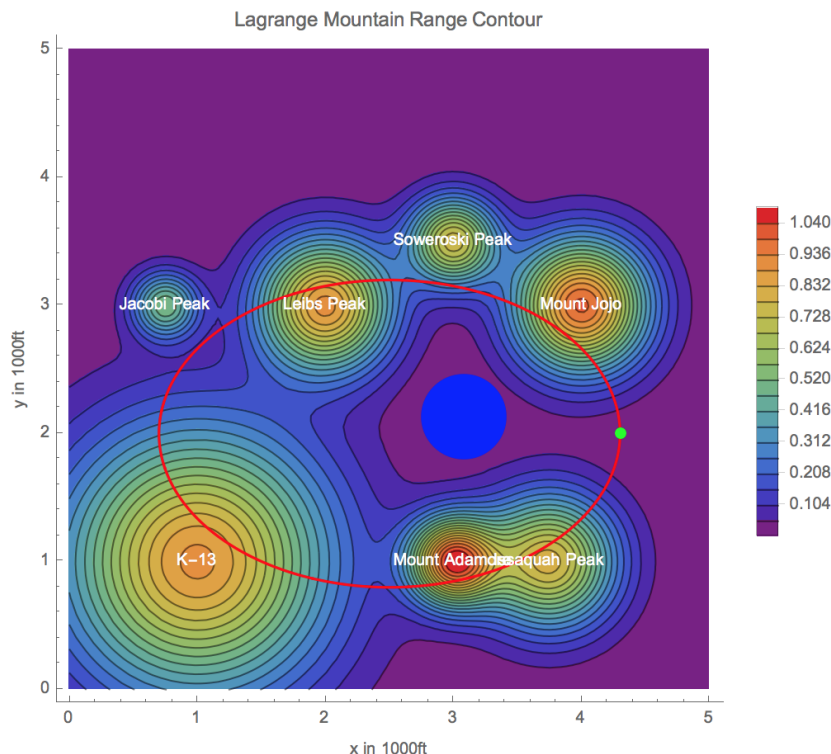


Figure 2: Lake Mochi in the Topographical Map

by beautiful mountains. Note that the trail does not go directly to the lake, but a little bit of bush-wacking from the trailhead can get us there in a few minutes without too much elevation change. View [Figure 1](#) to get a sense of how far it is to the lake based on the length of the rest of the hike.

4 Trail Lore

These beautiful peaks encase a whole lot of rock. Actually, about $4.94 * 10^{10} ft^3$, to be more precise if we consider the trail and the valley the trail surrounds. For the rock above 7,000ft, there is a legend that Clairautnium can be found in scarce quantities. Roughly 2.5ng of Clairautnium is estimated to be encased in the entire mountain range. With that being said, coming across any on our hike is highly unlikely. Even if a "nugget" held all of



Figure 3: Real Life Sighting of Honey Badger

the Clairautnium in the entire range, it would probably not be visible to the human eye. A specific speck of dust on a sandy trail is hard to spot.

Why would people care about Clairautnium you ask? Well legend has it that **SOME FUNNY LEGEND I'M NOT CREATIVE SORRY**

5 Summary

Hopefully you are intrigued enough to come adventure throughout the Lagrange Range. Remember to pack enough snacks and water to maintain high morale and energy! Hungry friends are not happy friends... So make sure to bring a little extra for the Honey Badger. At the speed recommended to conquer this trail, hopefully you have been training for the steep climbs. Let's get into the Colorado mindset and take on the trails!

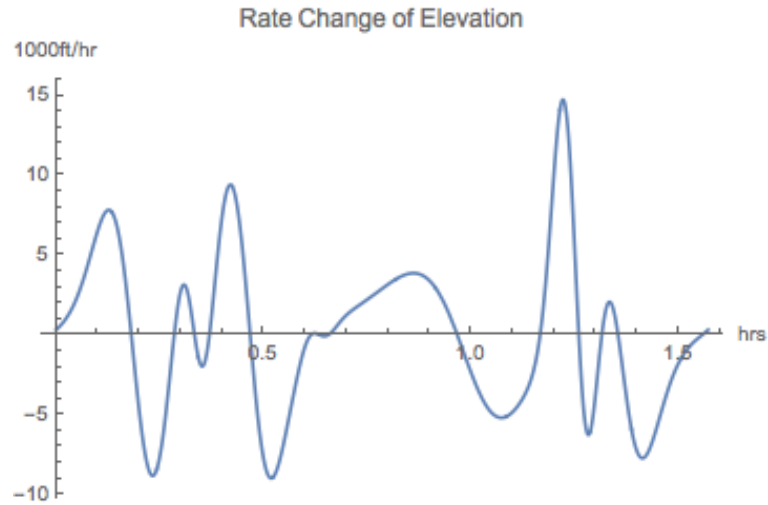


Figure 4: Rate of Change for Elevation Throughout the Trail

6 Lagrange Loop Not Challenging Enough?

Create Extra Credit Mountain Range Here :)

7 Appendix

Include calculations here, so put Mathematica, etc. in this section