

# 美國暑期實習

June ~ August, 2023

報告者：游雨婕



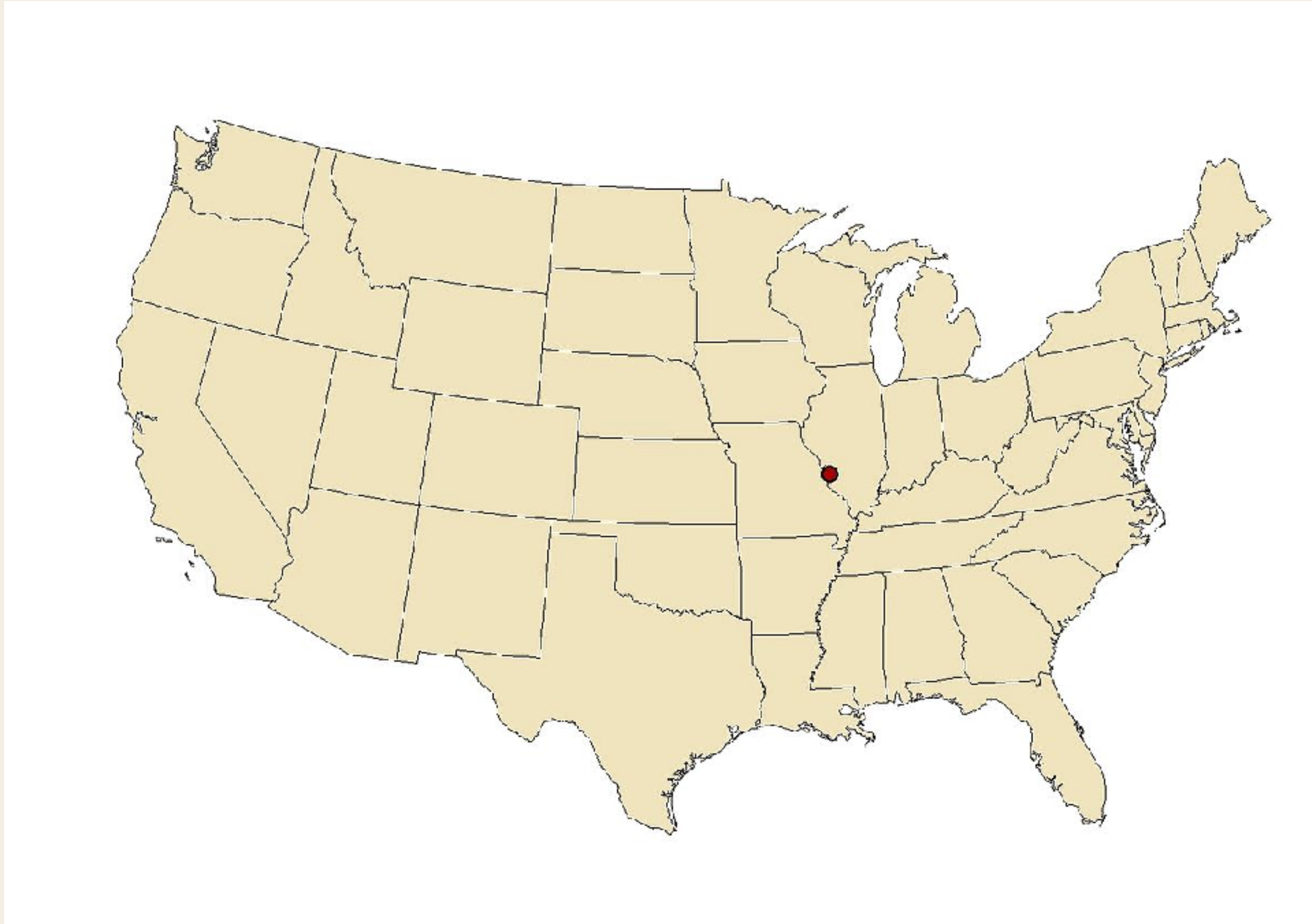
# 計畫名稱



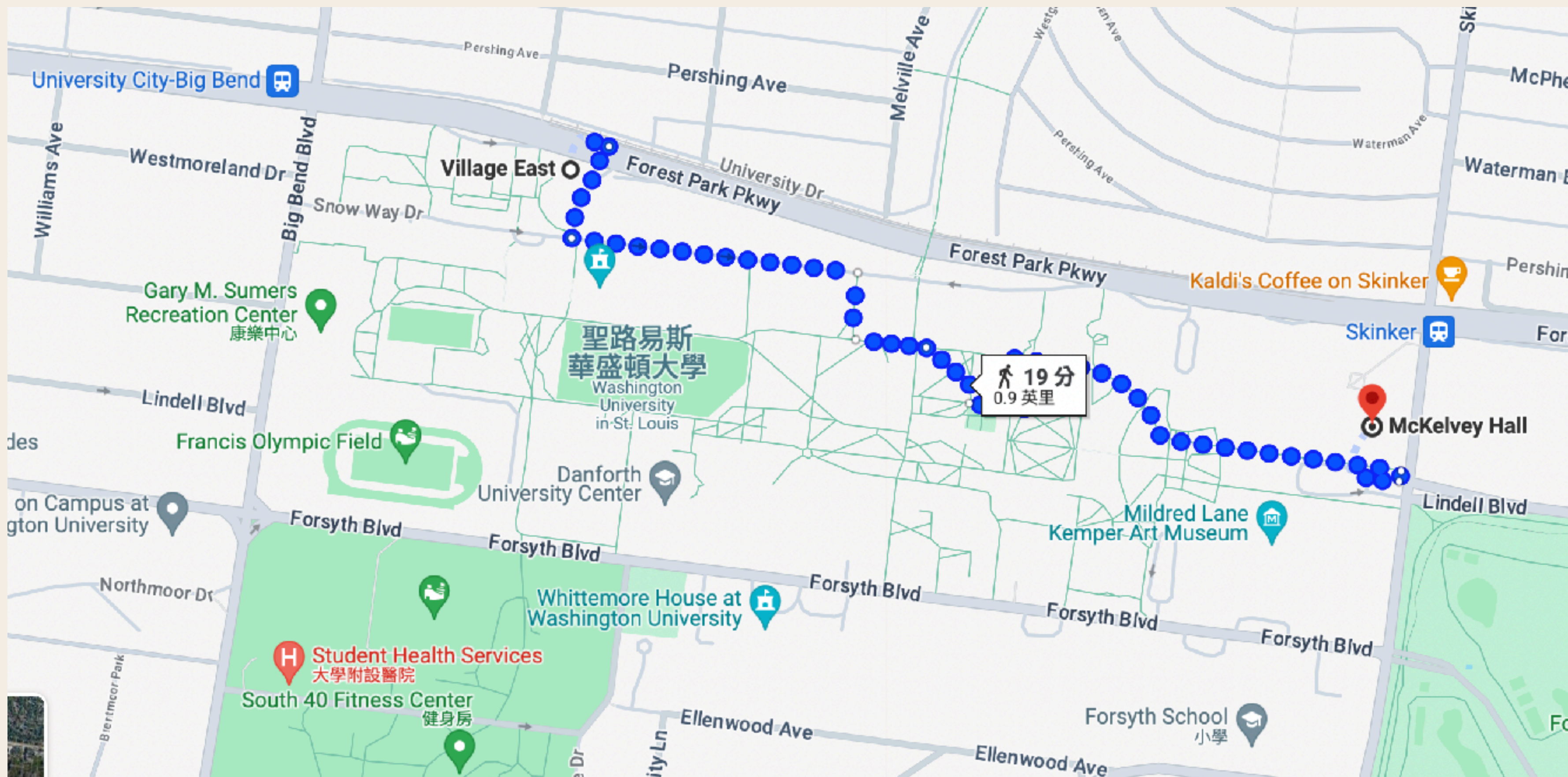
- 台大國際事務處－海外研究實習
- 美國聖路易華盛頓大學
- McKelvey School of Engineering International Student Research Internship Program
- 機票、簽證申請、保險等費用全額補助；提供住宿、交通卡

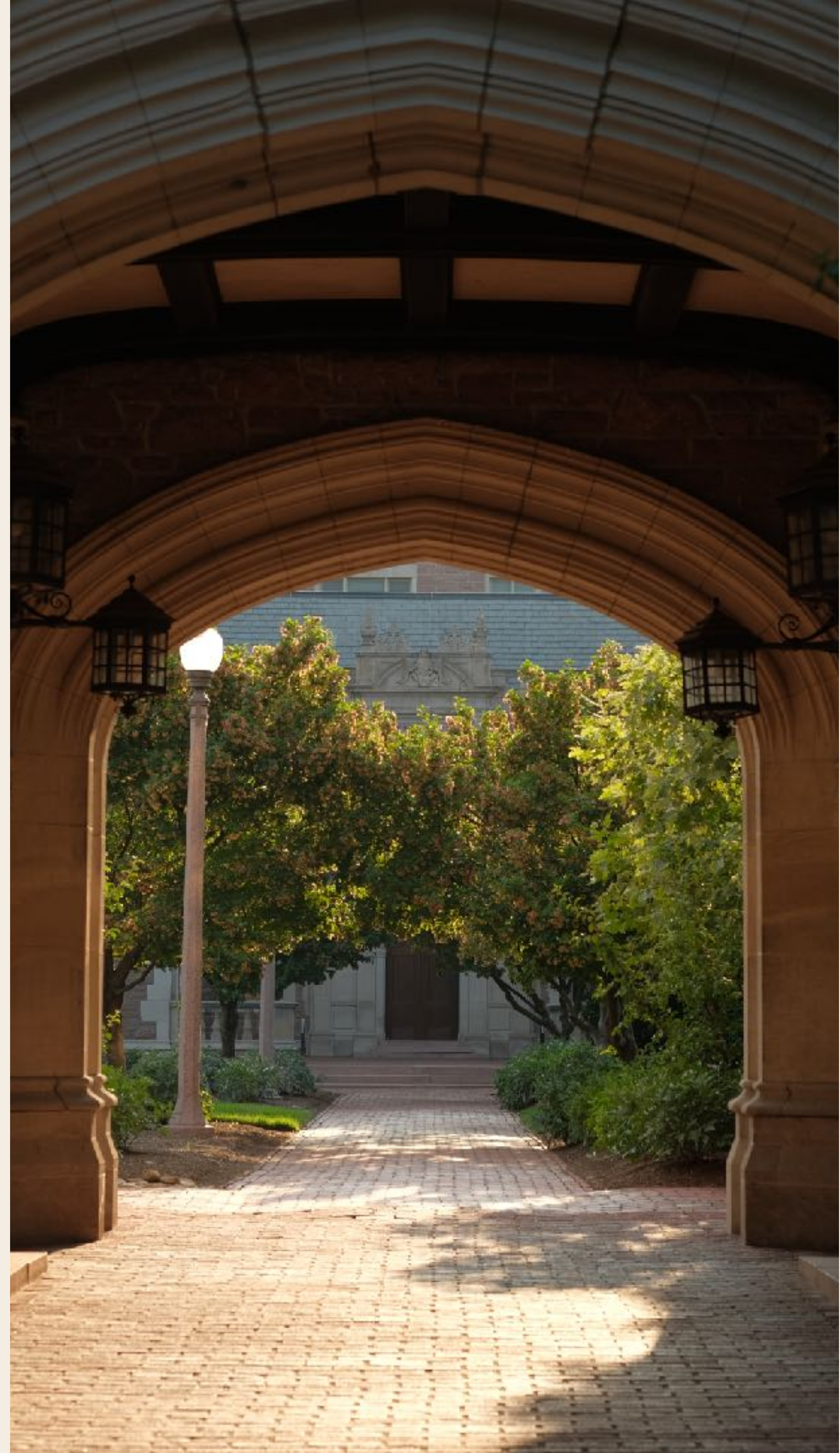
# 實習地點

St. Louis, Missouri



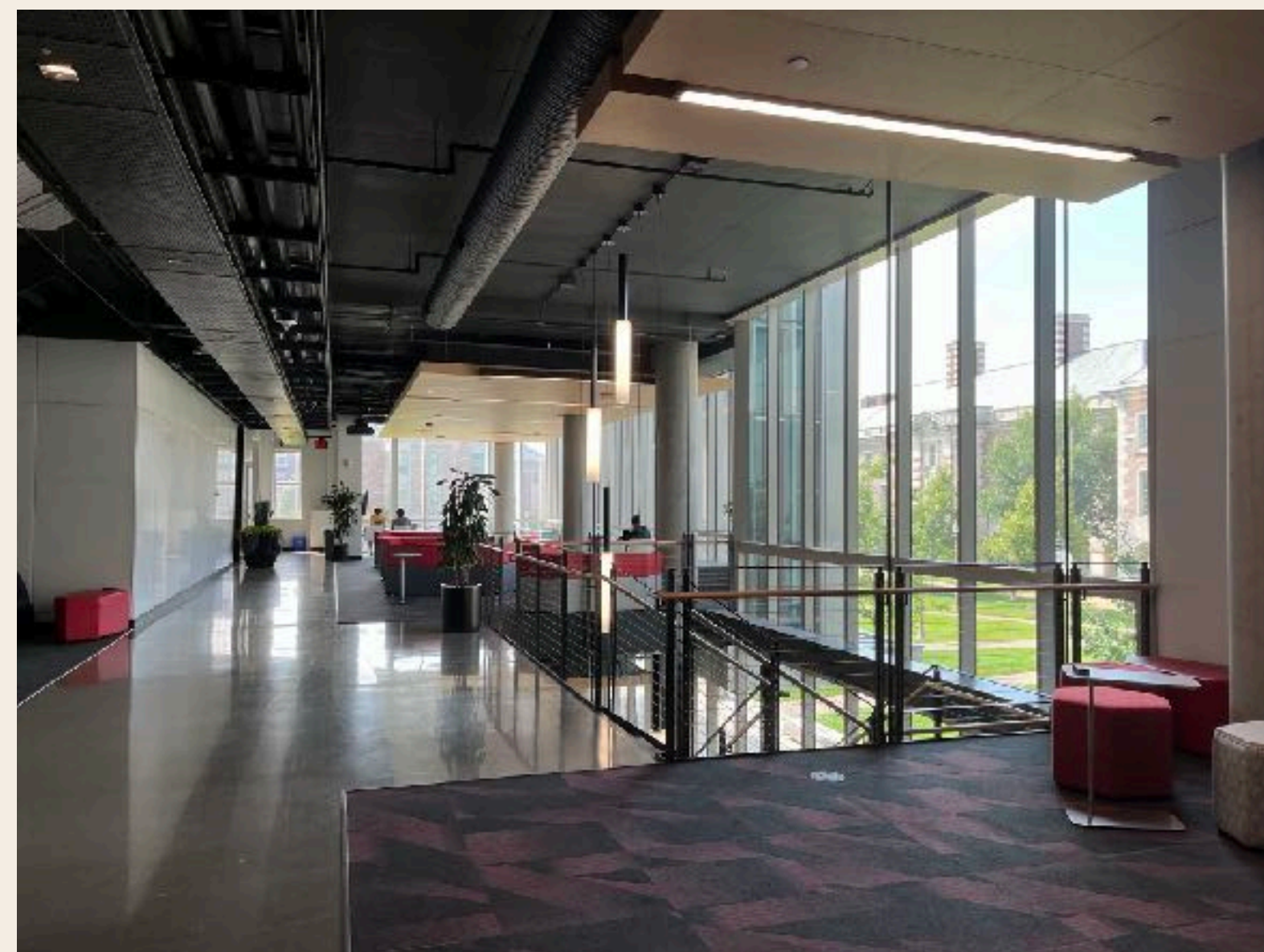
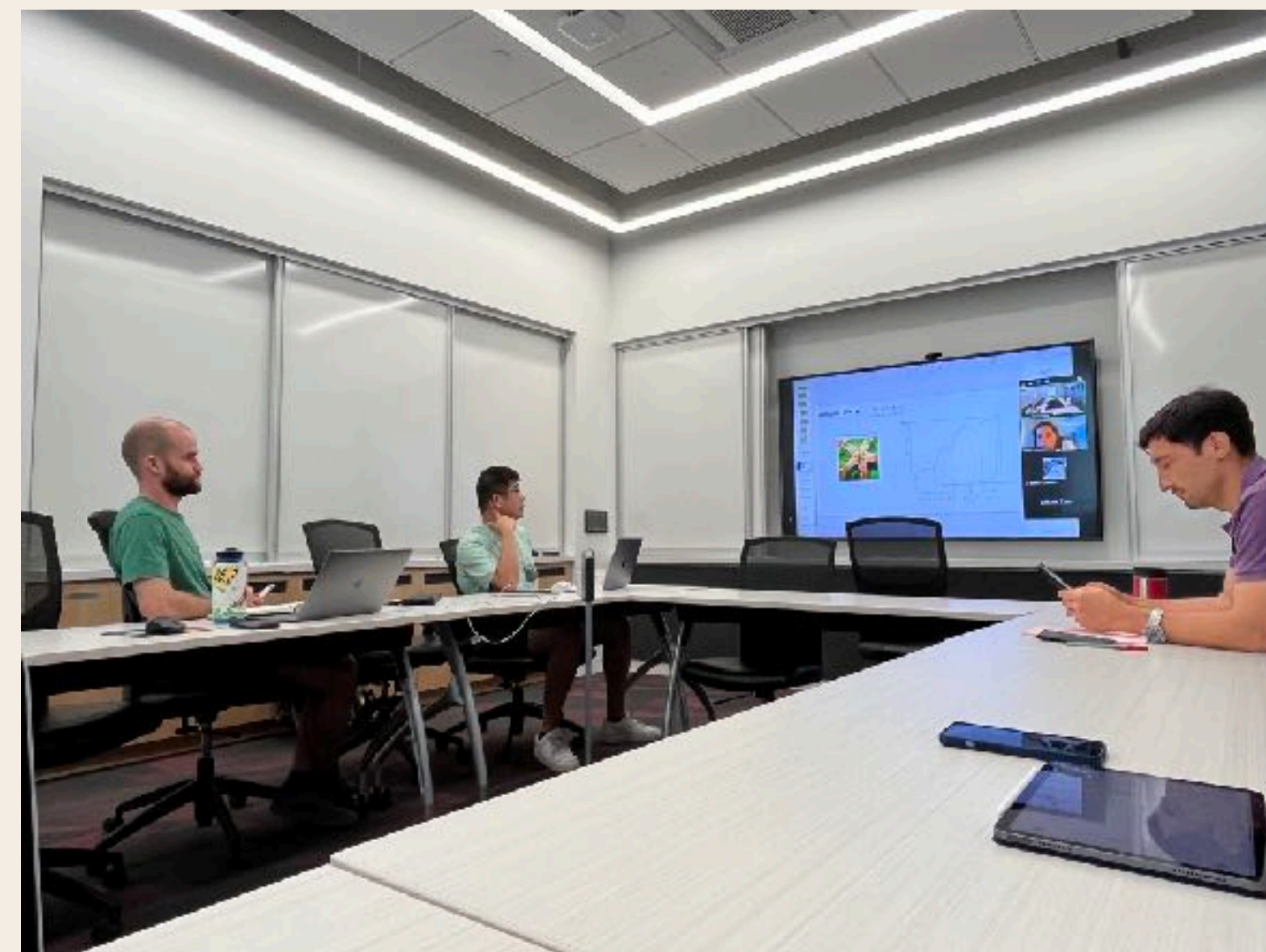
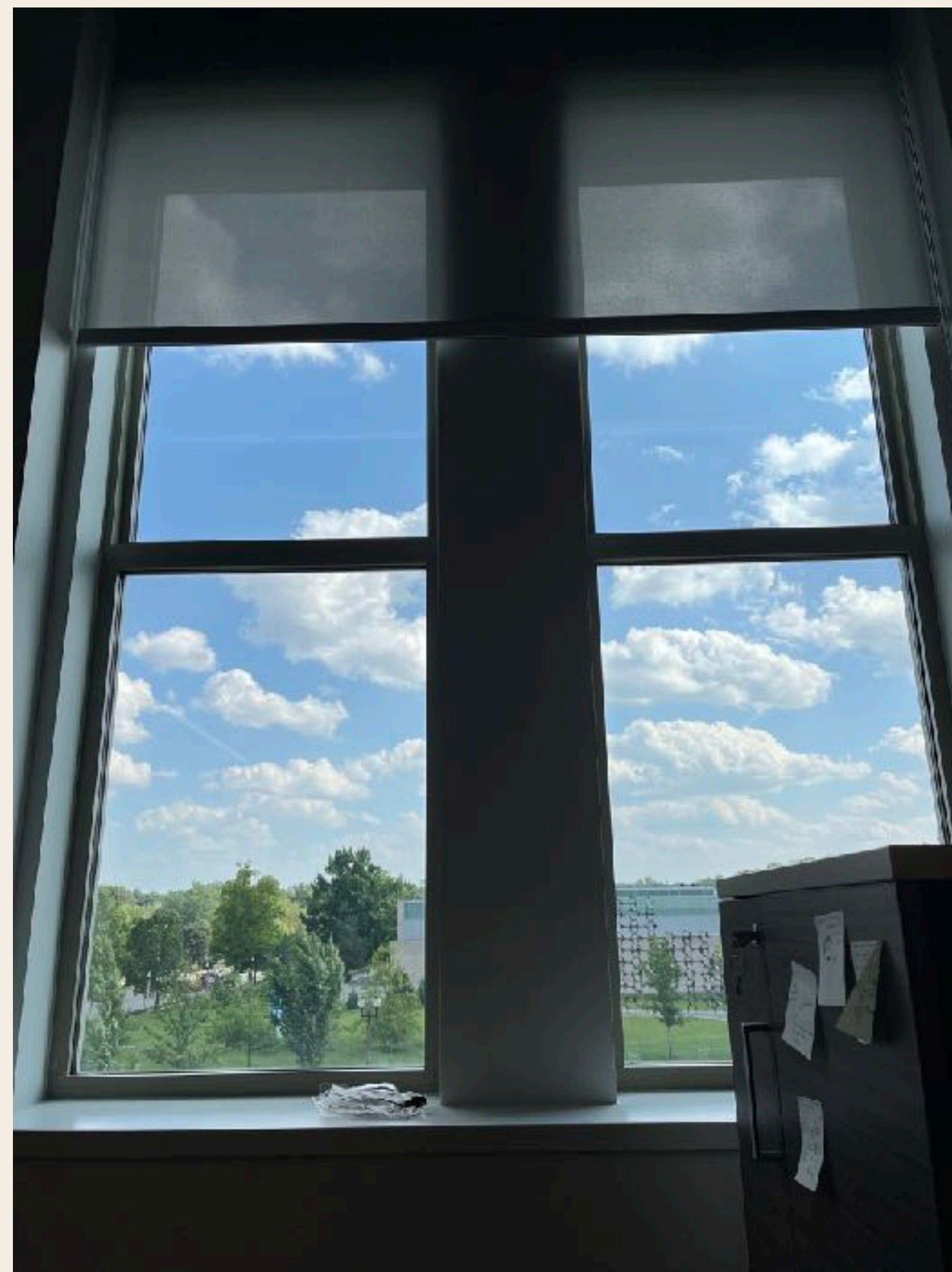
# WashU校園





# 實驗室


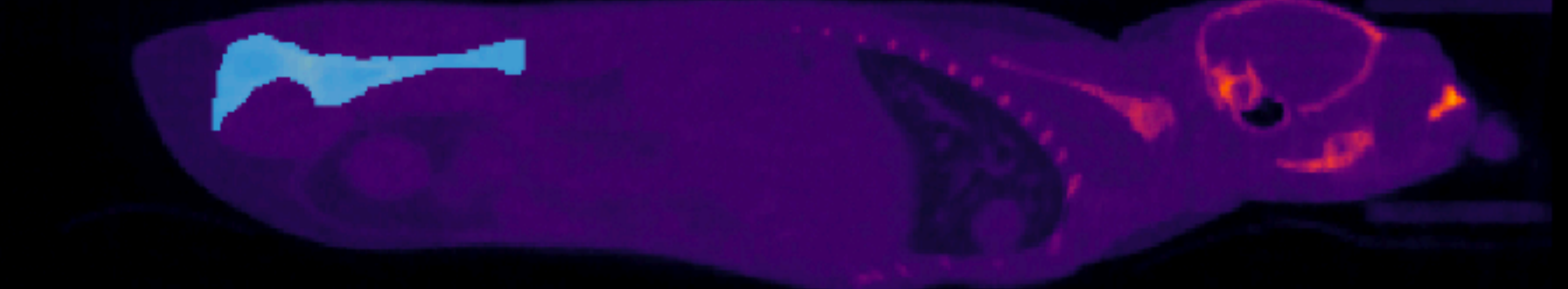
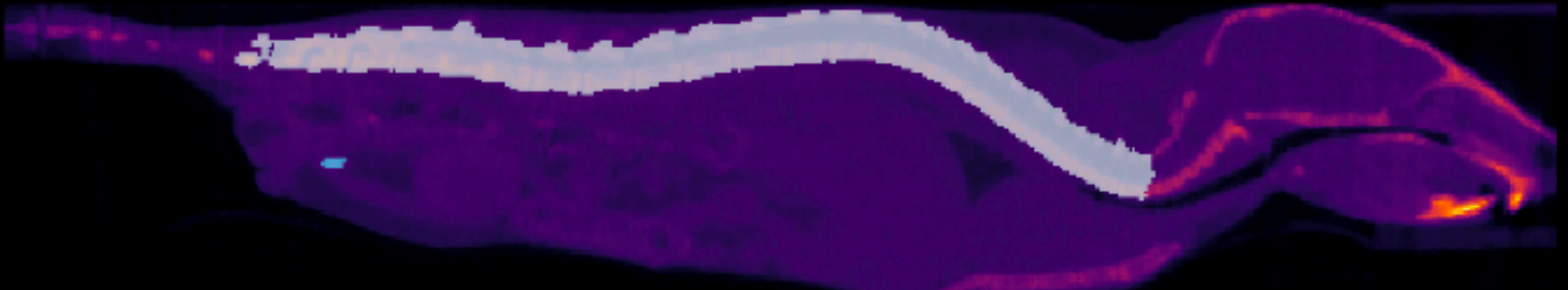
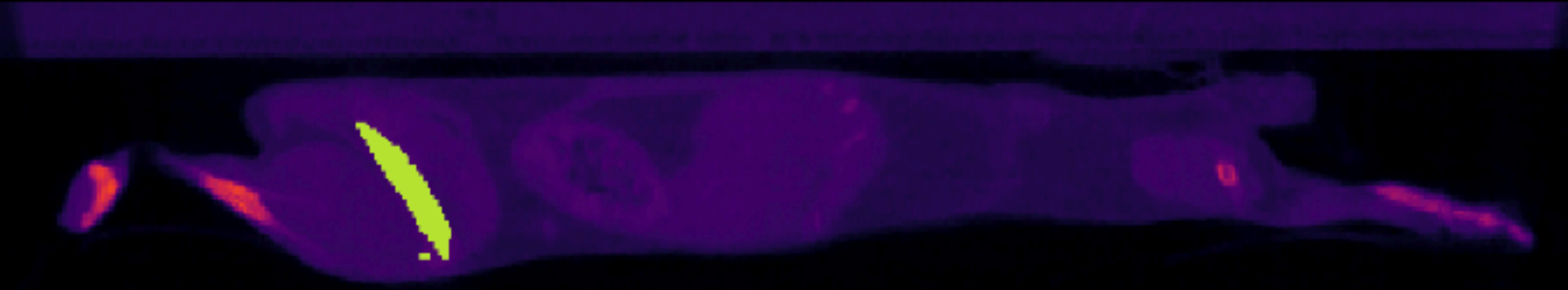
## Computational Imaging Group



# 專題內容

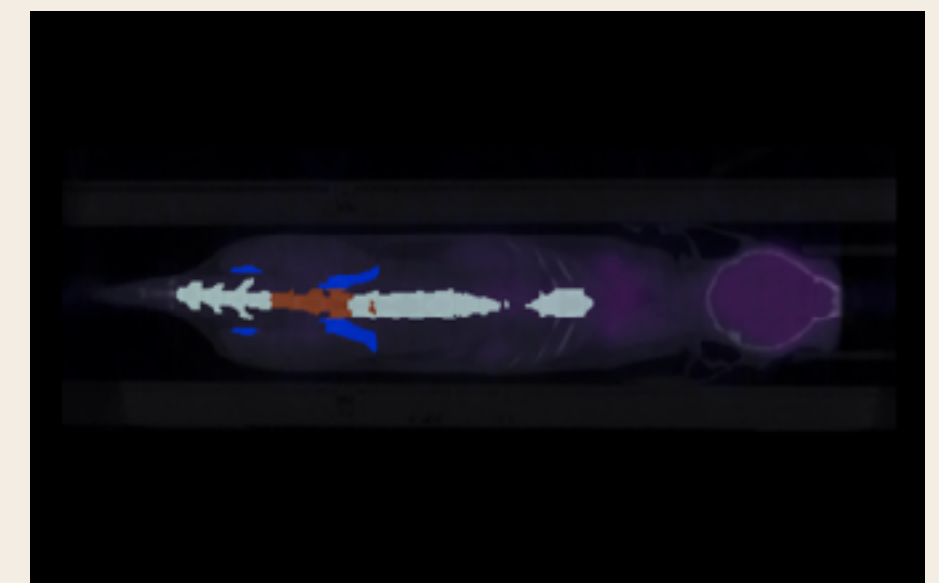
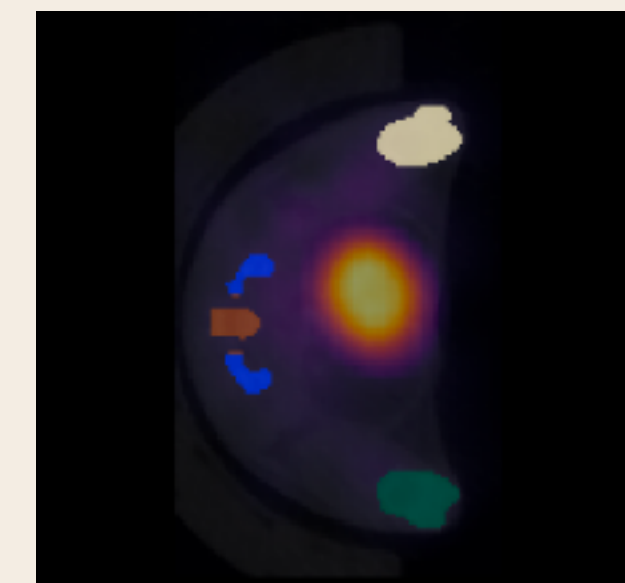
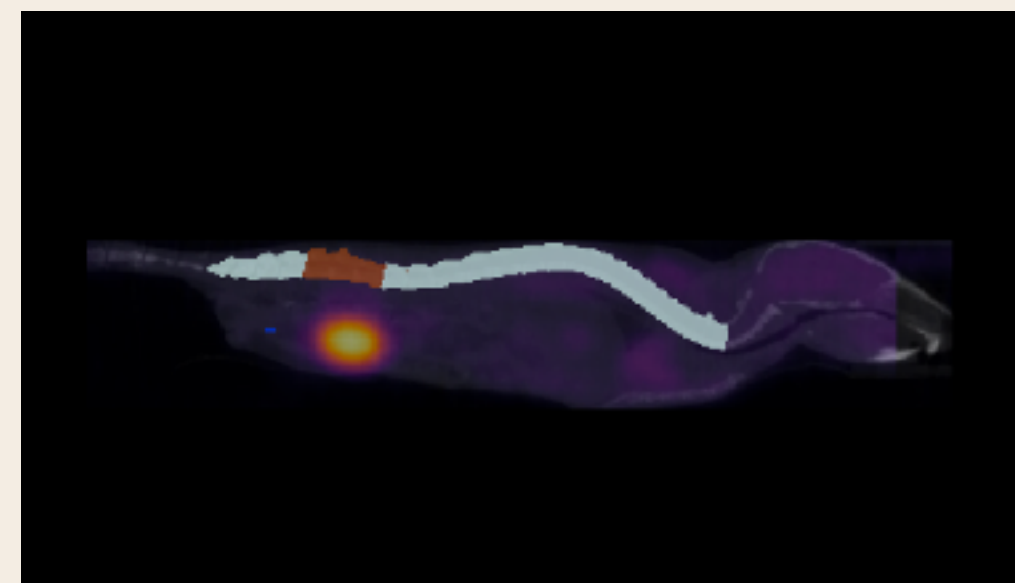
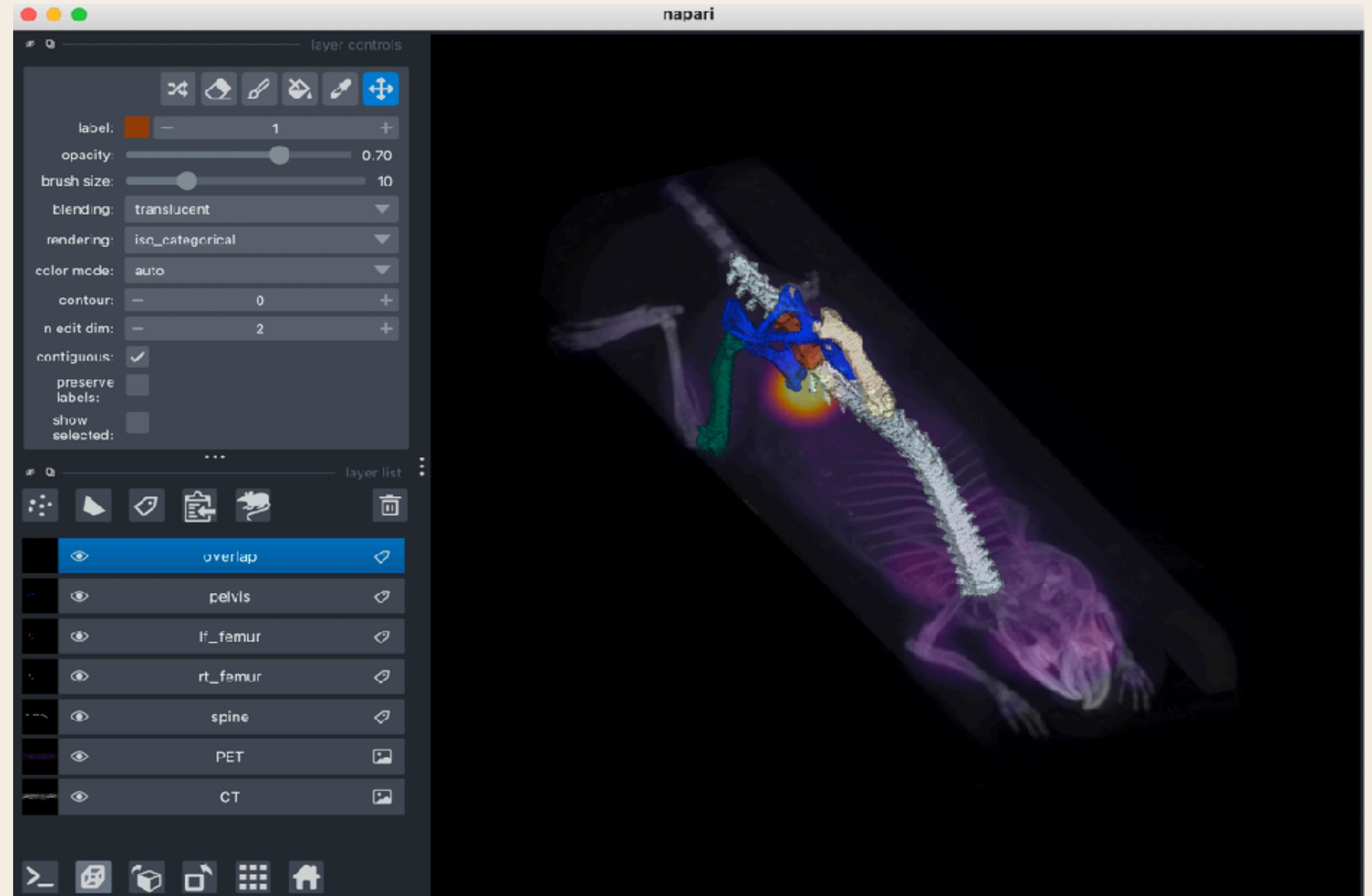
## Medical Image Analysis with Napari

- 目標：Multiple Myeloma diagnosis
- 幫 segmentation model 建立GUI
- 使用Napari

ROI category	CT with mask
Left femur	
Pelvis	
Spine	
Right femur	

# 專題內容

- Napari
  - based on Python
  - multidimensional image viewer
  - built on Qt (GUI), VisPy (GPU based rendering)

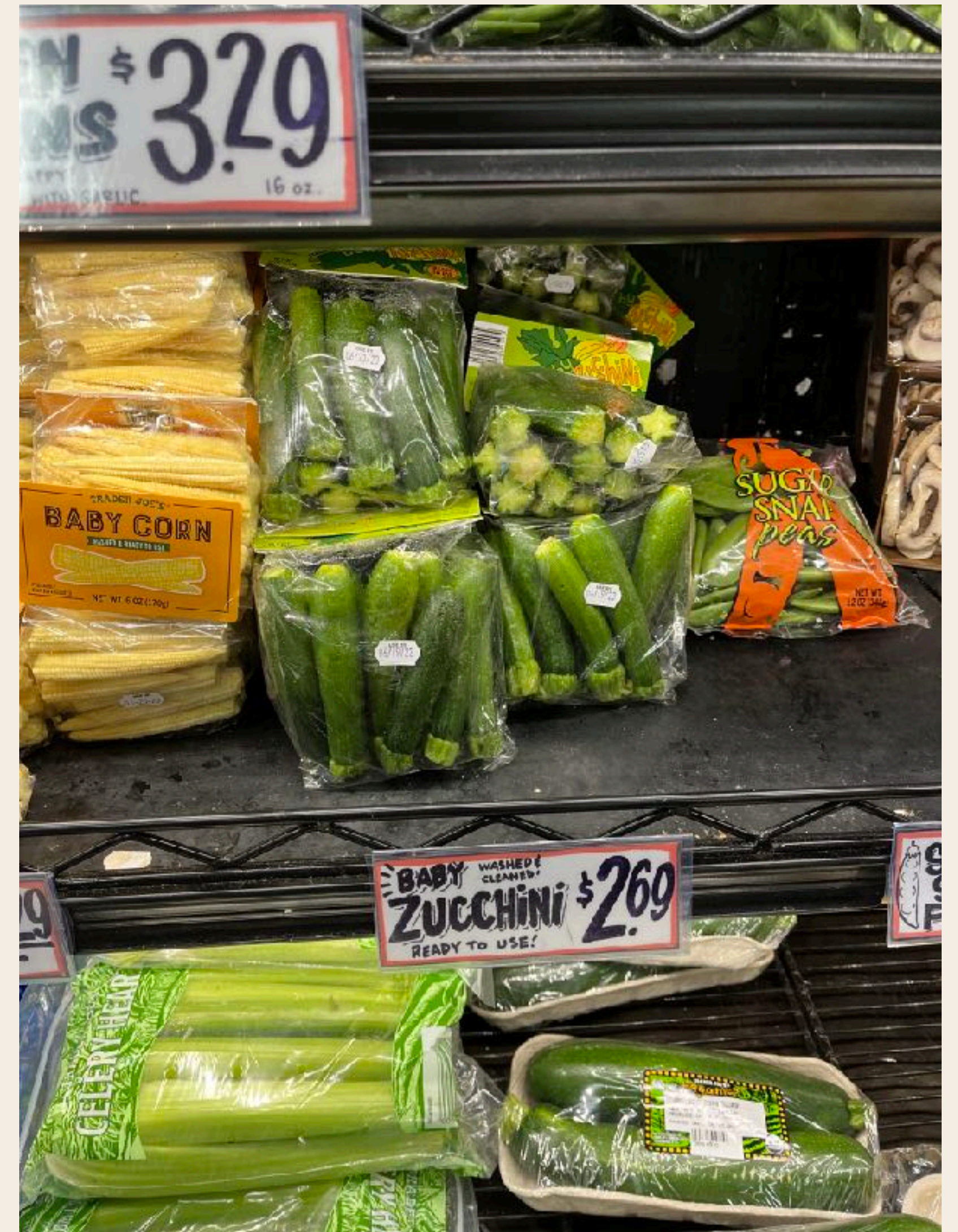




# 遇到的困難

- System hardware issue in dev mode
  - Intel 使用 AMD64 (x86\_64) 晶片
  - M1&M2 使用 AArch 64 (arm 64) 晶片
- Napari 和 Tensorflow 的版本衝突問題

# 日常飲食

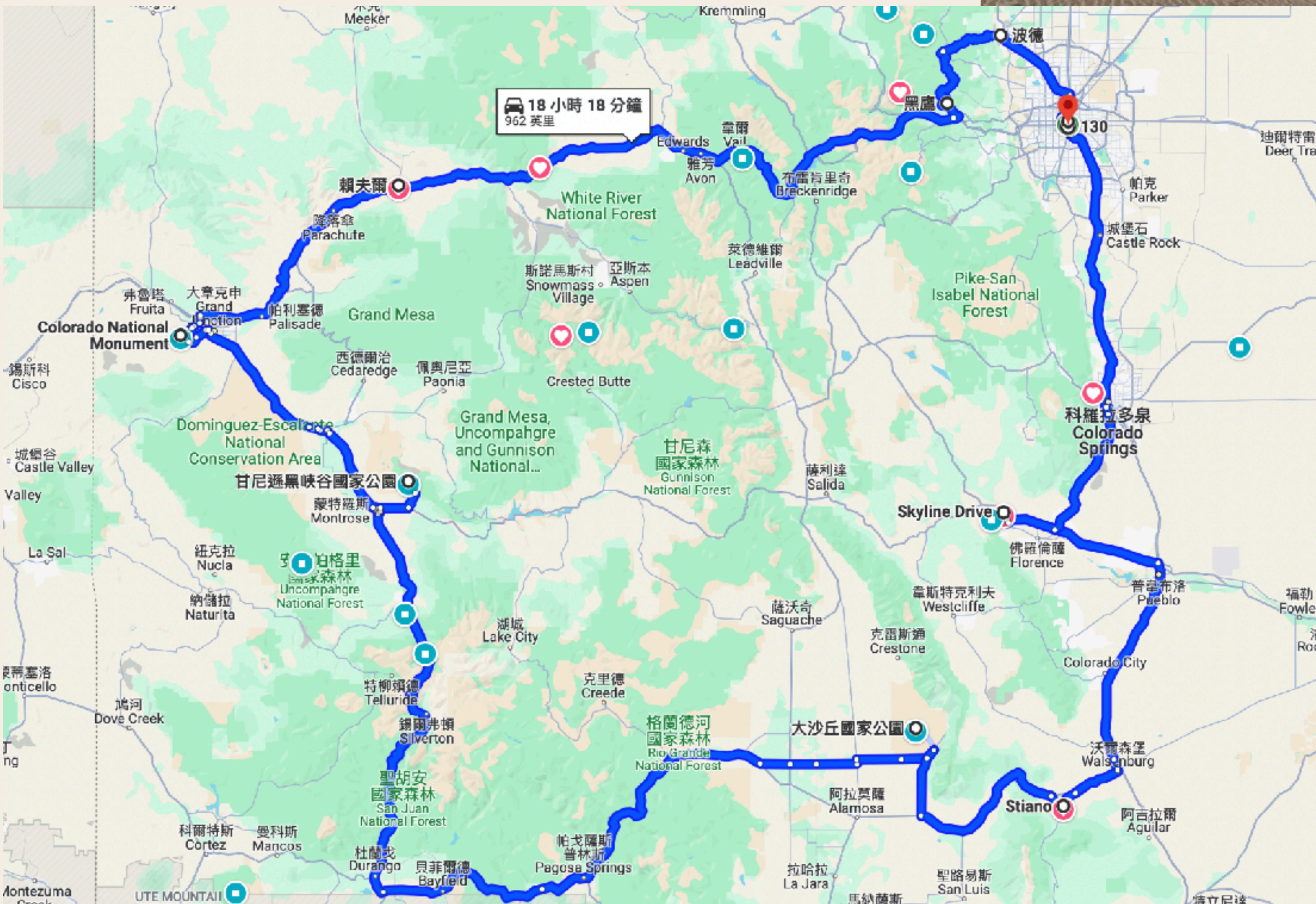


# 適應的過程



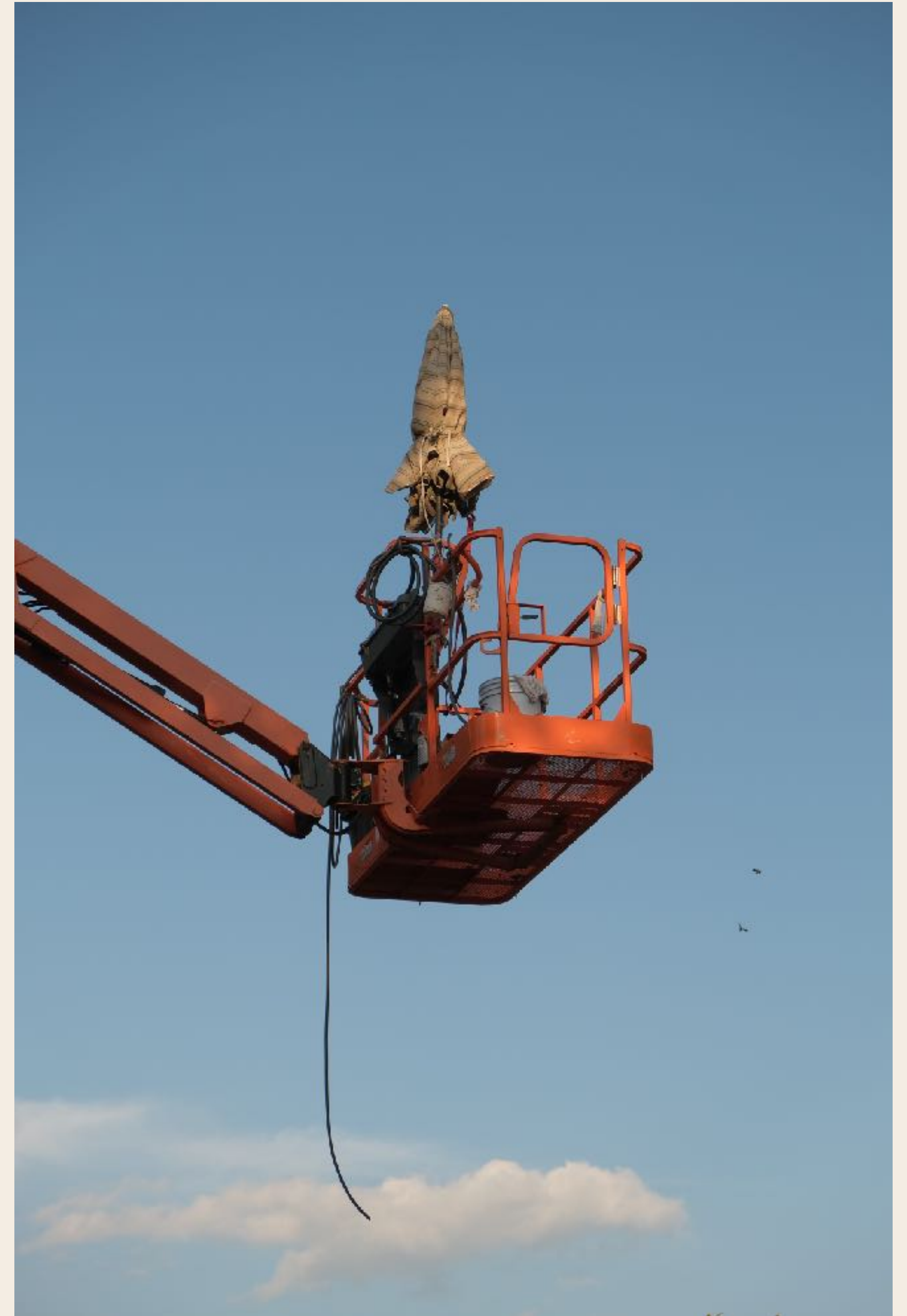
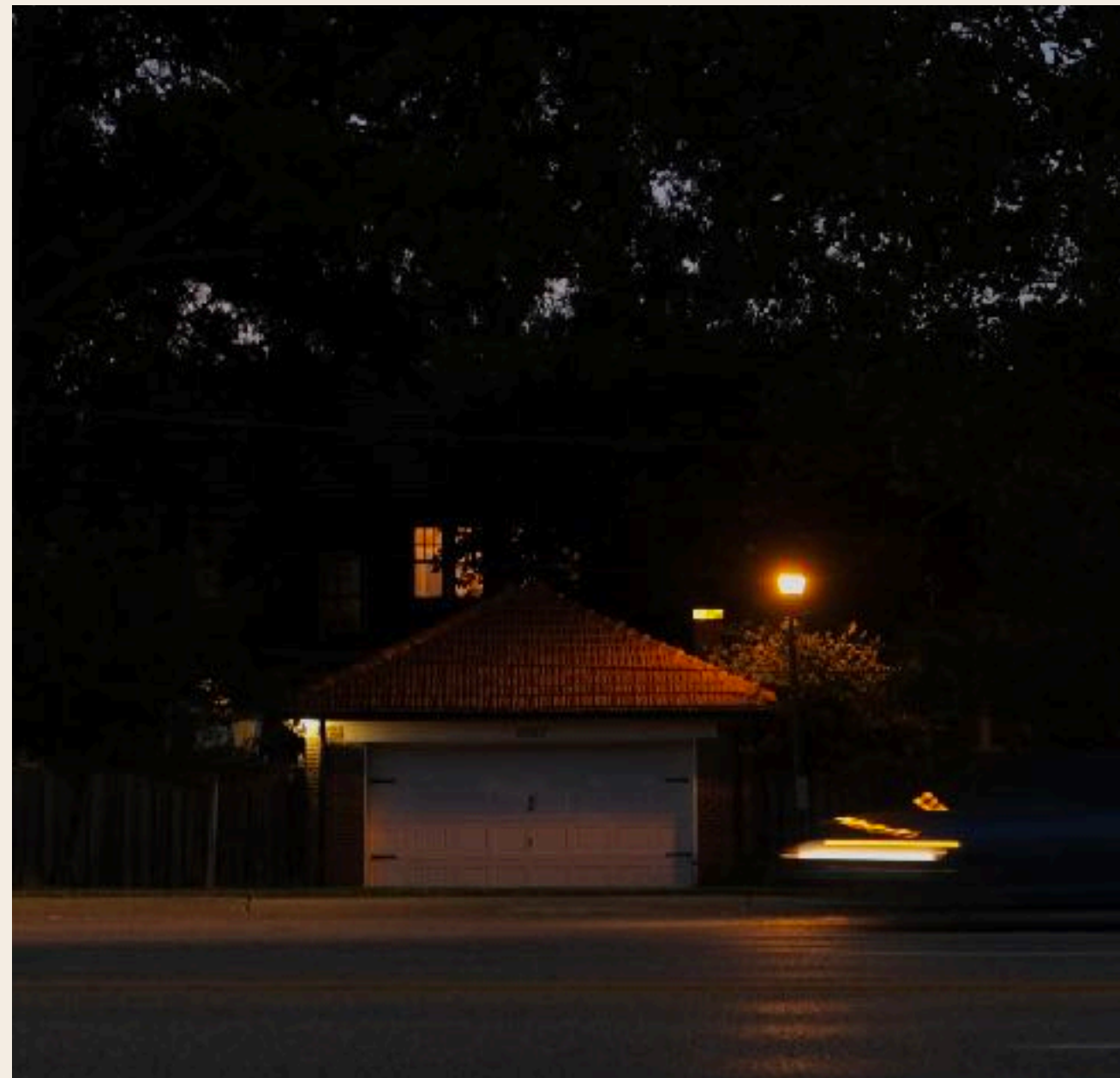
# 公路旅行

## Colorado Road Trip



# 總結

- 文化衝擊
- 心境轉變



# Reference

<https://www.britannica.com/place/Saint-Louis-Missouri>

<https://en.wikipedia.org/wiki/File:St.Louis-map.jpg>