# Links to, and descriptions of, what others have done.

* <https://github.com/BeppeMarnell/MSc-Thesis-Wildfire-prediction>
  + uses CNN and images
  + images represent similar features to ours (soil temp, air pressure, wind, historic precipitation, etc.)
* <https://github.com/josephchancey/ca-wildfire-ml>
  + predict acres burned based on precipitation
  + combines linear regression and random forest
* <https://github.com/ECMWFCode4Earth/wildfire-forecasting/tree/master>
  + U-net deep learning
* **many more on github we can look up**
* <https://towardsdatascience.com/leveraging-machine-learning-to-predict-wildfires-contributing-to-the-united-nations-sustainable-a10c5044dcae>
  + NN
* <https://www.kaggle.com/code/captcalculator/can-we-use-ml-to-predict-the-cause-of-a-wildfire>
  + predicting cause
  + decision tree
* <https://fireecology.springeropen.com/AIWFM>
  + links to papers I didn’t read
* <https://cdnsciencepub.com/doi/full/10.1139/er-2020-0019>
  + long paper talks about approaches
* <https://www.sciencedirect.com/science/article/abs/pii/S0379711218303941?fr=RR-2&ref=pdf_download&rr=8145f9191f661597>
  + paper. might be good
* <https://agupubs.onlinelibrary.wiley.com/doi/full/10.1029/2022GL099368>
  + DL
* <https://www.mdpi.com/2571-6255/6/8/319#:~:text=In%20recent%20years%2C%20several%20studies,accuracy%20score%20of%20over%2075%25>.
  + wildfire expansion. paper
* <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8243942/>
  + ML and game theory
* <https://www.fs.usda.gov/research/treesearch/49564>, <https://www.fs.usda.gov/rm/pubs_journals/2014/rmrs_2014_riley_k002.pdf>
* <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC10372657/>
* <https://www.nwcg.gov/publications/pms437/cffdrs/fire-behavior-prediction-system>
* <https://www.kaggle.com/datasets/ananthu017/california-wildfire-incidents-20132020/code>
  + others’ kaggle code

# Other resources, notes, info about fires

* <https://observablehq.com/@ktrudeau/2023-fire-weather-days> and <https://www.climatecentral.org/climate-matters/fire-weather-2023>
  + study of “fire weather days”. Their description of what that is may be helpful.
* <https://iopscience.iop.org/article/10.1088/1748-9326/ac60da>
  + article about ignitions
* <https://abgt.assembly.ca.gov/sites/abgt.assembly.ca.gov/files/Keeley%20%26%20Syphard2019%20Winds%20vs%20Fuels.pdf>
  + fuel-dominated vs wind-dominated
* <https://www.usgs.gov/news/wildfire-risk-california-no-longer-coupled-winter-precipitation>
* <https://www.osti.gov/servlets/purl/1860585>
  + socioeconomic risks
* **impacts of wildfires (for problem motivation)**
  + health impacts
  + econ: <https://www.bls.gov/opub/mlr/2023/article/labor-market-impacts-of-destructive-california-wildfires.htm>
* not relevant, but interesting: <https://www.fs.usda.gov/research/treesearch/56459>