A Timeline for "Active Learning for Crowd-Counting"

- Target Conference: AAAI 2024 (Deadline: August 15, 2023)
- Overall idea:
  - Proposing an Active learning framework for crowd-counting based on
    - Training time confusion to identify the most difficult samples
    - Finding samples close to the most difficult samples
    - (Optional) Wasserstein distance to identify the most uncertain samples
- Papers to compare with
  - Active Crowd Counting with Limited Supervision [Primary]
  - Crowd Counting with Decomposed Uncertainty
  - Uncertainty Estimation and Sample Selection for Crowd Counting
- Things to do:
  - [x] Read the papers
  - [ ] Implement the baseline (Random sample selection and match what is reported in AC-AL paper)
  - [ ] Analyze the predictions on the training samples across all epochs.
  - [ ] Look at the loss trajectory and find the right epoch to start calculating the confusion.
  - [ ] Implement the confusion calculation
  - [ ] Implement the Wasserstein distance calculation
  - [ ] Implement the sample selection
- Datasets to run experiments on:
  - [ ] ShanghaiTech Part A
  - [ ] ShanghaiTech Part B
  - [ ] UCF_CC_50
  - [ ] DCC
  - [ ] Mall
  - [ ] TRANCOS
  - [ ] IDCIA
- Tentative plan

Date	Task
June 6-16	Start implementing the baseline and Look at the predictions
June 17-23	Implement the confusion calculation
June 24-30	Implement the Wasserstein distance calculation
July 1-3	Run experiments on ShanghaiTech Part A
July 4	Start writing the paper
July 4-7	Run experiments on ShanghaiTech Part B
July 8-11	Run experiments on UCF_CC_50
July 12-15	Run experiments on DCC
July 16-19	Run experiments on Mall
July 20-23	Run experiments on TRANCOS
July 24-27	Run experiments on IDCIA
July 31	First draft complete
August 1-7	Revise the paper
August 8	Abstract due
August 9-14	Revise the paper
August 15	Submit the paper
August 18	Supplementary material and code due