

Danelle Cline

Week 53

- 500055 - Video Annotation DM
- 901009 - CANON
- 901502 - Passive Acoustic Sensing
- 901603 - Video TAG: Vis Ocean Chng
- 901809 - Deep Sea Bioinspiration
- 901915 - Improving MBARI Data Impact
- 902005 - VARS Annotation Assistance
- Overhead
- Out of Office

Week 52

- 500055 - Video Annotation DM
- 901009 - CANON
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- Out of Office

Week 51

- 500055 - Video Annotation DM
- 901009 - CANON
- 901502 - Passive Acoustic Sensing
 - Team meeting
- 901603 - Video TAG: Vis Ocean Chng
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- 902005 - VARS Annotation Assistance
 - Team meeting to discuss 2020 milestones and 2021 plans. No other meetings planned for 2020 and the team expects to begin VARS integration and testing in early 2021.
 - Finishing up database design for GraphQL API. This will serve as a data store for the machine learning visual event tracks and other ML related data needed to manage the ML lifecycle. Onboarding planned with Duane this week. Expect to deploy sometime next week. Wish me luck with the podman blues.
 - Training a larger D4 EfficientDet model to use to populate a test database.
 - Successfully tested several FathomNet and Sagemaker API calls in a web app taking shape that I'm calling DeepSeaAI. This will be both a dashboard and tool for submitting and monitoring the ML pipelines.
- Overhead
- Out of Office

Week 50

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Week 49

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Week 48

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- Overhead
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Week 47

- 500055 - Video Annotation DM
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- Overhead
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Week 46

- 500055 - Video Annotation DM
- 901009 - CANON
- 901502 - Passive Acoustic Sensing

- Finished metadata and upload scripts for AWS Open Data Sharing program initial 2.5 month data set. Upload of raw data underway. So far everything has worked well. Prototyped web design for communicating with ITD external web changes to serve data tutorials. John and I are working on prototyping notebooks in Colab and EC2 Jupyter stacks to demonstrate how to use the data.
- Humpbacks have been busy singing in the evenings. Check-out the [live stream](#) if you need some relief from the chaos.
- Call planned next week with folks at the Earth Species Project to discuss our plans for data sharing.
- 901603 - Video TAG: Vis Ocean Chng
- 901809 - Deep Sea Bioinspiration
- 901915 - Improving MBARI Data Impact
- 902005 - VARS Annotation Assistance
 - Drafting documentation on JSON output for the team to work through VARS ingest issues.
 - Finishing up local mode SageMaker tests which has sped-up the debugging process considerably.
 - Waiting for approval to use a bigger instance for model training from AWS.
 - Working on the integrated video inference and tracking code. So far so good.
- Overhead
- Out of Office

Week 45

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- Overhead
- Out of Office

Week 44

- 500055 - Video Annotation DM
- 901009 - CANON
 - Discussion w/Kevin on ODSS script migration.
- 901502 - Passive Acoustic Sensing
 - Working on scripts to describe and share our entire 5-year archive in the Amazon Open Data Sharing program. Cloud push and testing planned this week for 2020 data.
 - Found a normalization issue in the blue whale call prediction code which reduced the effective prediction accuracy. Reprocessing the blue A and D calls with this patch. Accuracy is now 93 and 95% for each model respectively. Models take approximately 30 minutes to train.
- 901603 - Video TAG: Vis Ocean Chng
- 901809 - Deep Sea Bioinspiration
- 901915 - Improving MBARI Data Impact
- 902005 - VARS Annotation Assistance
 - Instrumentation of efficientdet for spot training almost complete. Testing in SageMaker Studio. Many issues in the entire stack from the Docker/CUDA libraries, SageMaker and Wandb logging to resolve.
- Overhead
 - Volunteer for SACNAS virtual conference most of last week. Targeted students interested in ML/AI based on poster presentations for summer internships.
- Out of Office

Week 43

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- Overhead
- Out of Office

Week 42

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- 901603 - Video TAG: Vis Ocean Chng
- 901809 - Deep Sea Bioinspiration
- 901915 - Improving MBARI Data Impact
- 902002 - Fathomnet Detect and Classify
- 902005 - VARS Annotation Assistance
- Overhead
- Out of Office

Week 41

- 500055 - Video Annotation DM
- 901009 - CANON
- 901502 - Passive Acoustic Sensing
 - Testing ported tensorflow to pytorch blue whale classification code
 - Assisting with versioning and sharing click data with Cal Poly AI class
 - Discussion and planning with John Ryan and Kevin Gomes on how to best capture metadata and share with the AWS Open Data Sharing program
 - Working on cleaning up notebooks to share with POGO workshop participants & AWS Open Data Sharing program
- 901603 - Video TAG: Vis Ocean Chng
- 901809 - Deep Sea Bioinspiration
- 901915 - Improving MBARI Data Impact
- 902002 - Fathomnet Detect and Classify
 - Tested code to remove black borders and deinterlace
 - Noticing some duplicate annotations
 - Need a way to filter out equipment and transect versus close-ups
- 902005 - VARS Annotation Assistance
- Overhead
- Out of Office

Week 40

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- 901809 - Deep Sea Bioinspiration
- 901915 - Improving MBARI Data Impact
- 902002 - Fathomnet Detect and Classify
- 902005 - VARS Annotation Assistance
- Overhead
- Out of Office

Week 39

- 500055 - Video Annotation DM
- 901009 - CANON
- 901502 - Passive Acoustic Sensing
 - AWS upload throttle test
 - Discussion with Cal Poly about potential student projects
 - Team meeting
- 901603 - Video TAG: Vis Ocean Chng
- 901809 - Deep Sea Bioinspiration
- 901915 - Improving MBARI Data Impact
- 902002 - Fathomnet Detect and Classify
 - Interview scheduled 2pm 9/24 to speak to web designers
- 902005 - VARS Annotation Assistance
 - CUDA deinterlacing docker image
 - SageMaker training almost ready for sweeps
 - Integrating C++ inference engine into tracking code.
- Overhead
- Out of Office

Week 38

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- 901809 - Deep Sea Bioinspiration
- 901915 - Improving MBARI Data Impact
- 902002 - Fathomnet Detect and Classify
- 902005 - VARS Annotation Assistance
- Overhead
- Out of Office

Week 37

- 500055 - Video Annotation DM
- 901009 - CANON
- 901502 - Passive Acoustic Sensing
 - Restarted shoutcast stream which stopped after running fairly robustly for some time. There were no errors in the log file so it remains a mystery.
 - Fixed email notification on recording machine which was failing due to secondary authentication checks.
- 901603 - Video TAG: Vis Ocean Chng
- 901809 - Deep Sea Bioinspiration
- 901915 - Improving MBARI Data Impact
- 902002 - Fathomnet Detect and Classify

- Started compiling notes about improvements and nice-to-have features
- 902005 - VARS Annotation Assistance
 - Instrumented [wandb](#) logging in new object detection code in preparation for training in SageMaker. This will be a more efficient model (smaller/faster).
 - Added data registry for FathomNet and Cal Poly data collections
 - Created merged repo for taxa common to MARS BOEM sites with data filtering, merging, and correct VOC formatted outputs
 - Sleuthed out why some data was missing in our Cal Poly data set.
 - Metaflow/Cortex evaluation - looking like Cortex is a better fit (supports auto scaling, batch modes, easier to debug).
 - Beginnings of [OpenVINO](#) docker image for model optimization
- Overhead
- Out of Office

Week 36

- 500055 - Video Annotation DM
- 901009 - CANON
- 901502 - Passive Acoustic Sensing
 - Troubleshooting issues with streaming audio failure.
 - Trying to keep up with the AWS Data Sharing chatter
 - Blue whale D call predictions ready to process. Just need to free up GPU resources to start.
 - Discussion with Daniel DeLeon about inference tests results on Aria 10 FPGA and ideas for his masters studies.
- 901603 - Video TAG: Vis Ocean Chng
- 901809 - Deep Sea Bioinspiration
- 901915 - Improving MBARI Data Impact
- 902002 - Fathomnet Detect and Classify
 - Tested a few of the APIs. Had some difficulty fetching images. Tar of the archive would probably be easier.
- 902005 - VARS Annotation Assistance
 - Setup detection test for [NetFlex Metaflow with TensorFlow2 Retinanet](#). Metaflow works on laptop and local GPU. Next steps are to test in the Cloud.
 - Creating data registries for all available data for upcoming process tests. This versions the data for reproducibility and simplifies cloud testing.
 - <https://bitbucket.org/mbari/registry-benthic2017>
 - <https://bitbucket.org/mbari/registry-fathomnet>
 - <https://bitbucket.org/mbari/registry-i2map>
 - CalPoly is next.
- Overhead
- Out of Office

Week 35

- 500055 - Video Annotation DM
- 901009 - CANON
- 901502 - Passive Acoustic Sensing
 - AWS data sharing program correspondence. Many thanks to Kevin Gomes and the IS department for their help as we forge into the great Cloud.
 - Added coherence and VGGish embeddings plots of humpback topic model output. The dispersion of the VGGish embedding looks like a better discriminator than coherence for model optimization.

- Blue whale A call predictions across the entire 5-year time-series produced >200K calls. Next week blue processing jobs for whale D call predictions will be put in the queue.
- 901603 - Video TAG: Vis Ocean Chng
- 901809 - Deep Sea Bioinspiration
- 901915 - Improving MBARI Data Impa
- 902005 - VARS Annotation Assistance
 - After evaluating ML stacks project plans are to process collection of benthic dives for proof-of-concept. Training libraries will include Cal Poly and FathomNet labeled images for top species that we have enough localizations for.
 - Instrumenting TensorFlow 2 Retinanet module for Metaflow and midwater multiple object track tests.
 - Experimentation with [Cortex Machine Learning Stack](#)
- Overhead
- Out of Office
 - Out of office Aug 24-28.

Week 34

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- 901603 - Video TAG: Vis Ocean Chng
- 901809 - Deep Sea Bioinspiration
- 901915 - Improving MBARI Data Impa
- 902005 - VARS Annotation Assistance
- Overhead
- Out of Office
 - Off Fridays for summer duration

Week 33

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 - Off Fridays for summer duration

Week 32

- 500055 - Video Annotation DM
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- 901502 - Passive Acoustic Sensing
 - Fixing an issue with dockerized deployment of blue whale model in preparation for deployment on 5yr time-series with VGGskeleton model. Processed a few days for collaborator, Will Oestreich to review; he reports 100% accuracy on test files. Model was around 92% on the validation set.
 - Summer intern discussions and drafting up collaboration agreement.
 - Ongoing decimation filtering discussions with the team.
- 901603 - Video TAG: Vis Ocean Chng
- 901809 - Deep Sea Bioinspiration

- No requests yet on allocated time
- 901915 - Improving MBARI Data Impa
- 902005 - VARS Annotation Assistance
 - Summer intern meetings and working on fixing an issue with object detection model deployment failing in AWS but working okay on prem.
- Overhead
- Out of Office
 - Off Fridays for summer duration

Week 31

- 500055 - Video Annotation DM
- 901009 - CANON
- 901502 - Passive Acoustic Sensing
 - Tested optimized decimation filter with shorter filters and disseminated to team for inspection. New filters are ~20% faster in the most rate-limiting step for the soundscape analysis. We think the faster decimation is working but needs a time adjustment for the filter lengths which P. McGill will investigate.
 - Meetings with summer intern, Madison. She's doing a great job exploring topic coherence methods. Added similarity test for her to find two runs with similar topics based on [ARI](#) for her coherence analysis.
 - Doing some clean-up of blue whale batch inference code.
- 901603 - Video TAG: Vis Ocean Chng
- 901809 - Deep Sea Bioinspiration
- 901915 - Improving MBARI Data Impa
- 902005 - VARS Annotation Assistance
 - Fixed an issue with metrics failing to log correctly following object detection training.
 - Meetings with summer intern, Peyton who is working on evaluating performance metrics for our multiple object [video tracker](#) for the VAA project. We are using Amazon Web Services AWS and [CVAT](#) for this effort.
- Overhead
- Out of Office
 - Off Fridays for summer duration

Week 30

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- 901809 - Deep Sea Bioinspiration
- 901915 - Improving MBARI Data Impa
- 902005 - VARS Annotation Assistance
- Overhead
- Out of Office
 - Off Fridays for summer duration
 - Vacation July 15-24th

Week 29

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- 901603 - Video TAG: Vis Ocean Chng

- 901809 - Deep Sea Bioinspiration
- 901915 - Improving MBARI Data Impa
- 902005 - VARS Annotation Assistance
- Overhead
- Out of Office
 - Off Fridays for summer duration
 - Vacation July 15-24th

Week 28

- 500055 - Video Annotation DM
- 901009 - CANON
 - Meeting July 9
- 901502 - Passive Acoustic Sensing
 - Conference with Carrie Wall, an oceanographer who leads the fisheries acoustic archives at the NOAA National Centers for Environmental Information (NCEI). Discussed our blue whale research and methods for automated analysis. Data is in hand and experiments are planned to test with our signal processing and machine learning methods.
 - Testing single day case study John identified as a high priority for decimation testing. Day has time drifts and multiple irregular drop-outs. Getting close to a robust solution to handle the messy data.
 - Started on testing Yanwu's optimized filter parameters in our decimation notebook. These should result in a speed-up in our current rate limiting step of decimating the high-frequency data.
 - Topic modeling sweeps for summer intern and ongoing discussions 3x per week about progress on coherence results. Many thanks to Ben Raanan and Carlos Rueda for helping when needed with this effort.
 - Project proposal input
- 901603 - Video TAG: Vis Ocean Chng
- 901809 - Deep Sea Bioinspiration
- 901915 - Improving MBARI Data Impa
- 902005 - VARS Annotation Assistance
 - Code housekeeping to get all of the dockerized components in the workflow working with semantic versioning and automated docker builds and pushes to docker hub.
 - Project proposal input
 - Conference with USCS creative coding lab about AI/ML human-performance literature review and suggestions for improved VARS workflows using AI/ML
 - Created AWS s3 bucket for training data collections versioned with [DVC](#) and working on code for reproducible preprocessing.
- Overhead
- Out of Office
 - Off Fridays for summer duration
 - Vacation July 15-24th

Week 26

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- 901502 - Passive Acoustic Sensing
 - Humpback whale song topic model sweeps for Dirichlet hyperparameters: [gamma](#), [alpha/beta](#). Code for that is here: <https://bitbucket.org/mbari/soundscape-humpback-topicmodel>. Expect many more model sweeps in the coming weeks to fine-tune the final parameters. Looking at coherence in addition to perplexity as a measurement of quality.
 - Summer intern discussions on coherence, PCEN preprocessing etc.

- Staged 5-year decimated data in AWS to share with collaborator Will Oestreich on Blue whale A/D call analysis. It was surprisingly fast to upload the entire 2kHz dataset.
- Experimenting with prisma/graphql database with sound metadata.
- 901603 - Video TAG: Vis Ocean Chng
- 901809 - Deep Sea Bioinspiration
- 901915 - Improving MBARI Data Impa
- 902005 - VARS Annotation Assistance
 - Summer intern discussions on track metrics using benthic/midwater test track data. Python metric tracking package is working on our test data and should address key ML performance questions. Work is progressing quite well with Peyton! Our focus will shift to creating a 2-hour test sequence shortly.
 - Setup CVAT and MLFlow development servers
 - Working on schema design and experimenting with [Cortex machine learning API](#) as a possible tool to simplify devops and compute scaling needs.
 - Discussion with UCSC Creative Coding lab scheduled for Tuesday June 30th.
- Overhead
- Out of Office
 - Vacation day

Week 25

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- Overhead
- Out of Office

Week 24

- 500055 - Video Annotation DM
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- 901502 - Passive Acoustic Sensing
 - Fixed an issue with wav cache read collision in decimation job
 - Created postgres development database for MARS wav file metadata using prisma/graphql. Really liking the schema evolution and tools in the software stack.
 - Added coherence image enhancement to Blue whale classifier and regenerating data for training.
 - Reviving topic model code in preparation for student project efforts.
 - Student discussions
- 901603 - Video TAG: Vis Ocean Chng
 - Abstract reviews
- 901809 - Deep Sea Bioinspiration
- 901915 - Improving MBARI Data Impa
- 902005 - VARS Annotation Assistance
 - Discussion with UCSC Creative coding lab about possible collaboration on user interface and machine learning efforts
 - Student discussions
- Overhead
- Out of Office

Week 23

- 500055 - Video Annotation DM
- 901009 - CANON
- 901502 - Passive Acoustic Sensing
 - Code optimization of [blue whale code](#)
 - Found issue with missing data in decimation files. Resubmitting backlog jobs to recompute those.
 - McGill and Zhang are working on further optimizations to the decimation filters. This should be useful for various workflows that need different levels of decimated data.
- 901603 - Video TAG: Vis Ocean Chng
 - Project abstract review
- 901809 - Deep Sea Bioinspiration
 - Need to inquire again about model training needs. All went pretty quiet with this project over the Covid period.
- 901915 - Improving MBARI Data Impa
- 902005 - VARS Annotation Assistance
 - Finished week-long GraphQL/Prisma online training - all 110+ videos and exercises. Whew.
- Overhead
 - Updated [miniomlflow](#) stack. Pretty useful for those interested in experimenting with buckets and using MLFlow for managing machine learning models.
- Out of Office
 - May 27-29 for much needed break. With the exception of a day, Danelle has been working during the entire quarantine period.

Week 22

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- Overhead
- Out of Office

Week 21

- 500055 - Video Annotation DM
- 901009 - CANON
- 901502 - Passive Acoustic Sensing
 - Centos8 upgrade
 - Finished decimating 5-year time-series and now investigating some 10-minute gaps in decimation likely due to time drift.
- 901603 - Video TAG: Vis Ocean Chng
- 901809 - Deep Sea Bioinspiration
- 901915 - Improving MBARI Data Impa
- 902005 - VARS Annotation Assistance
 - Meeting with UCSC Creative coding lab; this group is interested in helping with human-machine learning visualization aspects of the project.
 - Meeting with summer intern, Peyton Lee, Univ Washington student, to discuss intern project.
- Overhead
 - Vue/Prisma bootcamp. About 80% complete with this online training class.

- Out of Office

Week 20

- 500055 - Video Annotation DM
- 901009 - CANON
- 901502 - Passive Acoustic Sensing
 - CentOS8 migration of HTCondor pool master machine condormastervm to htcondormaster
 - Teleconference with AWS team about open data sharing program
 - Weekly team meeting and monitoring of decimation jobs
- 901603 - Video TAG: Vis Ocean Chng
- 901809 - Deep Sea Bioinspiration
- 901915 - Improving MBARI Data Impa
- 902005 - VARS Annotation Assistance
 - Working on python notebooks for data localized data clean-up using the tools designed for assisting annotation. Two data sets ready for ingest so far. This set may serve well for summer intern work
 - Continued evaluation of amplify/vue/graphql web app
 - Student project discussion
 - Team meeting scrubbed this week
- Overhead
 - AWS Online US/Canada Summit tutorials and keynotes
- Out of Office

Week 19

- 500055 - Video Annotation DM
- 901009 - CANON
- 901502 - Passive Acoustic Sensing
 - AWS data sharing teleconference to discuss rollout of 2020 data with tutorials
 - Computing 2kHz decimated time series with UTC daily files
 - Working on HTCondor pool CentOS8 upgrade
- 901603 - Video TAG: Vis Ocean Chng
- 901809 - Deep Sea Bioinspiration
- 901915 - Improving MBARI Data Impa
- 902005 - VARS Annotation Assistance
 - Finished data transforms for 2 of 4 datasets to handoff to FathomNet team <https://bitbucket.org/mbari/vaa-localize-clean/>; working on using the dockerized tools developed for assisting annotation to clean the remaining datasets so they can easily be loaded into VARS and also be used for tracking experiments.
 - Team meeting and continued prototyping on Vue/GraphQL app.
 - Working with IS and KGomes on AWS web login. Joe Gomez made big strides in that last Friday spinning up a webapp in AWS redirected to our usual login. Thanks, Joe!
- Overhead
 - Discussions with Cal Poly collaborators about AI Data Sharing NSF Convergence Accelerator proposal.
- Out of Office

Week 18

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- 901809 - Deep Sea Bioinspiration

- 901915 - Improving MBARI Data Impa
- 902005 - VARS Annotation Assistance
- Overhead
- Out of Office

Week 17

- 500055 - Video Annotation DM
- 901009 - CANON
- 901502 - Passive Acoustic Sensing
 - Found and fixed an issue in decimation for edge case with multiple small discontinuous files
 - Reprocessing 2020 data with UTC aligned day in preparation for AWS Data Sharing and pre/post COVID soundscape analysis.
- 901603 - Video TAG: Vis Ocean Chng
- 901809 - Deep Sea Bioinspiration
 - Need to get details from the project on model training needs
- 901915 - Improving MBARI Data Impa
- 902005 - VARS Annotation Assistance
 - Working on the beginnings of AWS web portal. Climbing learning curve of Vue, GraphQL and cloud deployment.
 - Dockerizing tracking code.
- Overhead
 - Correspondence with Cal Poly about NSF Convergence Accelerators - AI-Driven Innovation opportunity.
- Out of Office

Week 16

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- Overhead
- Out of Office

Week 15

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- 902005 - VARS Annotation Assistance
- Overhead
- Out of Office

Week 14

- 500055 - Video Annotation DM

- 901009 - CANON
- 901502 - Passive Acoustic Sensing
- 901603 - Video TAG: Vis Ocean Chng
- 901809 - Deep Sea Bioinspiration
- 901915 - Improving MBARI Data Impa
 - Meeting
- 902005 - VARS Annotation Assistance
 - Finishing up ML tracker code and continuing work on VARS data loaders. Hoping to finish this up by next week
 - Working on high-level system requirements doc
- Overhead
 - Engineering meeting

Week 13

- 500055 - Video Annotation DM
- 901009 - CANON
- 901502 - Passive Acoustic Sensing
 - Restarted rsync and Shoutcast audio stream after reboot following IS patch failures. Added reboot check to crontab.
- 901603 - Video TAG: Vis Ocean Chng
- 901809 - Deep Sea Bioinspiration
 - Generated improved [video](#) of bathos detection for external website
- 901915 - Improving MBARI Data Impa
- 902005 - VARS Annotation Assistance
 - About half way through sprint to load localized data into VARS database [VAA-32](#).
 - Example notebooks for benthic video detection, classification and tracking coming along.
 - Working on system requirements. [VAA-23](#).
- Overhead
 - Danelle was asked to participate in an Expert Committee on Oceanography for the [Canada Foundation for Innovation's](#) 2020 Innovation Fund competition. This meeting, originally scheduled for Toronto in June, has been moved to a virtual meeting in light of COVID-19. Three grants with various ocean science themes with data management, compute, machine learning and outreach components will be reviewed.
 - Out of Office
 - Vacation day Monday 3/2.

Week 12

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- 902005 - VARS Annotation Assistance
- Overhead
- Out of Office
 - Vacation day Monday 3/2.

Week 11

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- 902005 - VARS Annotation Assistance
- Overhead
- Out of Office
 - Vacation day Monday 3/2.

Week 10

- 500055 - Video Annotation DM
- 901009 - CANON
- 901502 - Passive Acoustic Sensing
 - Working on streamable PCEN implementation notebook
 - Retraining blue whale call classifiers with improved PCEN parameters
 - Reviewing summer intern applications
- 901603 - Video TAG: Vis Ocean Chng
- 901809 - Deep Sea Bioinspiration
- 901915 - Improving MBARI Data Impa
- 902005 - VARS Annotation Assistance
 - Working on Sagemaker notebook to demo fast video processing workflow
 - Added unit test to [tfrecord](#)
 - Reviewing summer intern applications
- Overhead
- Out of Office
 - Vacation day Monday 3/2.

Week 9

- 500055 - Video Annotation DM
- 901009 - CANON
- 901502 - Passive Acoustic Sensing
 - Instrumented [topic model](#) with wandb logging, ran two sweeps for K-means over different PCEN parameters, [first](#) broad then [fine](#). Next steps are to run full model sweeps with best PCEN parameters.
- 901603 - Video TAG: Vis Ocean Chng
- 901809 - Deep Sea Bioinspiration
- 901915 - Improving MBARI Data Impa
- 902005 - VARS Annotation Assistance
 - Testing jupyter notebook with example benthic video processing pipelines using TensorFlow + MLFlow. A similar notebook will be developed for midwater. Ostensibly, the notebooks we are developing can also be adapted for Station M and drone still image processing. SageMaker has some great examples for those of you interested in this space. Please come talk to me or Duane Edgington for more details.
 - Spun up MLFlow in AWS for development testing
 - Added nose unit tests to tfrecord utility
 - Adding semantic versioning and bitbucket pipelines for automated releases
 - Working on system requirements
 - Sent out ideas to the team on user interface design and discussions with Carlos about design ideas
- Overhead
 - Attended ER meeting and tuned into presentations on bluejeans
- Out of Office

- Vacation day Monday 3/2.

Week 8

- 500055 - Video Annotation DM
- 901009 - CANON
- 901502 - Passive Acoustic Sensing
- 901603 - Video TAG: Vis Ocean Chng
- 901809 - Deep Sea Bioinspiration
- 901915 - Improving MBARI Data Impa
- 902005 - VARS Annotation Assistance
- Overhead
- Out of Office

Week 7

- 500055 - Video Annotation DM
- 901009 - CANON
- 901502 - Passive Acoustic Sensing
- 901603 - Video TAG: Vis Ocean Chng
- 901809 - Deep Sea Bioinspiration
- 901915 - Improving MBARI Data Impa
- 902005 - VARS Annotation Assistance
- Overhead
- Out of Office

Week 6

- 500055 - Video Annotation DM
- 901009 - CANON
- 901502 - Passive Acoustic Sensing
 - Applied and was approved by AWS open data program to freely share acoustic data - all 95 TB!
 - Assisting student Daniel DeLeon with embedded TensorRT code project. Having success using Google Colab+GCP for this effort.
 - Was invited and joined the [OrcaSlack channel](#)
 - Testing Keras inference speed improvements
- 901603 - Video TAG: Vis Ocean Chng
- 901809 - Deep Sea Bioinspiration
 - Requested 2020 task list from K.Katija for allocated 240 hours
- 901915 - Improving MBARI Data Impa
 - Meeting to discuss TimescaleDB and STOQS
- 902005 - VARS Annotation Assistance
 - Team is working towards benchmarking cost/performance of cloud compute and preparations for testing with new ML-aware video player
 - Meeting scheduled for February 12@2pm with video lab to brainstorm about the future use of machine learning for enhancing and augmenting video and image analysis at MBARI. Contact Lonny Lundsten if interested in joining.
 - Fixed bug in Tensorflow batch inference
 - Successful deployment of MLFlow in dockerized container in AWS in Cloud9
- Overhead
 - ACloudGuru training on CloudWatch logging with group members
- Out of Office

Week 5

- 500055 - Video Annotation DM
- 901009 - CANON
- 901502 - Passive Acoustic Sensing
 - Teleconference with AWS about open data sharing program
 - Shared notebook examples and helped setup notebook in GCP for Cal Poly student Daniel DeLeon to train models.
 - Cleaned up wandb model reports organizing by project number instead of name
- 901603 - Video TAG: Vis Ocean Chng
- 901809 - Deep Sea Bioinspiration
 - Cleaned up wandb model reports organizing by project number instead of name
- 901915 - Improving MBARI Data Impa
- 902005 - VARS Annotation Assistance
 - Lead project “kick-off”. Great progress already on both Sagemaker and ML aware video player development!!
 - Feb 12 meeting planned to brainstorm with video lab about workflow.
 - Working on bug in tensorflow detection model inference served in MLFlow
 - Cleaned up wandb model reports organizing by project number instead of name
- Overhead
 - Performance review
- Out of Office