**Projects Lead**

Technical lead of Corona Virus Model (recognized by SecArmy)

- Work nominated and selected as finalist for Rist prize.

ShiPi

SELEcT

R Course

- Lead curriculum update to modernize the coding language to current community standards.

- Made course virtual to include online questions with feedback

Deep green lead

CAAAAW Development/Support to support agency accountability during teleworking

**Projects Supported**

Data Challenge – while not primary responsibility, created model that earned team a top half finish

JAGMJR – supported with complexity analysis work (Survival Analysis)

FHAST – Executed analysis for study and briefed work to OPT, desk-side brief to BG Benchof, and supported OPT lead with COA evaluation.

FHAST-156 – Worked on short notice to support sworn statement review for sponsor.

**Support to Outside Agencies**

- INSCOM R Course Instructor x 3 (Created 3 classes and 3 practical exercises for their course)

- 4th ID R Support to Division Analyst

- 1st AD R Support to Division Analyst

- FMSA Shiny App development and Hosting

- USANCA support to classified project

- FATSHAVE project

- USAREC Shiny Application development and hosting

- NGIC support to analyst fielding multiple RFIs for coding support

**Professional Service**

- AORS Working Group Chair

- Recruiting Committee: West Point Recruiting Sub Committee Lead

- ORSA Utilization Committee: KSB/PDSI Subcommittee

- Member of American Statistics Association

- Member of MORS

- Provided survey analysis to MORS Board

- Member of AORS

- Member of the Data Science Community of Practice

- Worked on committee within PA&E to provide feedback on experimental data science tools for the ORSA community

- Sought out for mentorship by junior ORSAs from Florida A&M and Duke. The Duke ORSAs came across my work on-line and looked me up.

**TDY**

- None

**Conferences Attended**

NY R Conference – coordinated team’s attendance

DC R Conference – coordinated team’s attendance

MORS Emerging Techniques

NVIDIA

AUSA

AORS

Carnegie Melon Research Review

**Presentations**

MORS Emerging Techniques

- Invited Tutorial Presenter on git/differential equations in R

AORS

- Community of Interest (COI) DS & IA Tech-Talk:

o Invited presentation: COVID Effective R Work in Data Robot

o Invited presentation: ‘How I became a data scientist’

PA&E Brown Bag

- 2nd Place NCAAM Kaggle Model

**CAA Book Club**

- Conducted initial planning and setup

- Created shiny app hosted on RS Connect to organize voting for future books

- Hosted first session on Nate Silver’s “Signal and the Noise”

- Supported second and third sessions with Shiny app and attendance

**Publications**

Turner, D., Drake, M. (2021). A Survey of Covid Analytical Efforts Across the DOD. MORS Phalanx. (Under Review)

Cummiskey, K., Pleuss, J., Adams, B., **Turner, D. S.**, Hickman, R., Sulewski, C., & Watts, K. (2021). Teaching and Learning the West Point Way: Educating the Next Generation of Leaders. In Chapter 8: An Undergraduate Project to Develop Statistical Thinking and Writing: Iterating to Success (1st ed., pp. 200–250). Routledge.

Ducharme S, Turner D, Pleuss J, Aguiar E. (2020) Using Cadence to Predict the Walk-to-Run Transition in Children and Adolescents: A Logistic Regression Approach. Journal of Sports Sciences.

**Other notes**

- Recognized at 1st QTR Staff Officer of the Quarter.

- Served as a thesis advisor and mentor on off duty time for two West Point cadets

- Grew local data science community relations with ‘R Meetup’ groups

- Finished ILE during rating period

**Community Service**

- Little League baseball Coach of Record Spring 2021 (AA & T-Ball)

- Little League assistant coach Fall x 2 (A & T-Ball)

**Awards / Recognition**

- FY20 3rd QTR Staff Officer of the Quarter for the G8

- 2/707 finish in Kaggle NCAAM Basketball Competition

**1st year**

**Projects Lead**

Director’s Challenge Corona Virus Research Presentation

Technical lead of Corona Virus Model (recognized by SecArmy)

ShiPi

SELEcT

R Course – Lead curriculum update to modernize the coding language to current community standards

Deep green lead

OSD Sentiment Analysis

Data robot training organized

CAAAAW Development to support agency accountability during teleworking

**Projects Supported**

Logjam (created shiny app)

DISSIO

JAGmJR

TGF (With MAJ Dani Fitghugh)

**Support to Outside Agencies**

- INSCOM R Course Instructor x 2

- USANCA data science work flow automation by code

- USAREC Shiny Application development and hosting

- NGIC support to analyst fielding multiple RFIs for coding support

- 4th ID Support R Support to Division Analyst

**Professional Service**

- Member of American Statistics Association

- Member of MORS

- Member of Society for American Baseball Research

- Member of the Data Science Community of Practice

- Volunteered to serve as a co-chair for AORS

- Assisted the S1 in awards ceremonies for CPT Rivers

- Coordinated farewell event for CPT Rivers

**TDY**

Tampa Bay – SOCOM Data Engineering Lab Grand Opening

West Point Recruiting Trip

~~EOP Data Science Competition~~

~~ICMICS Data Science Competition Amsterdam~~

~~Netherlands SAS-157 Participation The Hague~~

**Conferences**

MORS Emerging Techniques

NVIDIA

AORS

R Conference / Git Workshop

IDA Applying Data Analytics Forum

EOP Forum

Monterrey, California Tidymodels Presentation to international audience (Pending)

**Presentations**

Emerging Techniques – Introduction to Tidymodels

MORS – Tutorial

MORS – Cadet Basic Training Injuries

R Presentation in support of Melissa Sayers to members of Force Management at Pentagon

Tidymodels Presentation to WSMR (Part 1) - Pending

Tidymodels Presentation to WSMR (Part 2) - Pending

**Brown Bags**

Git: Basics

Searching for Fake Tweets

~~Natural Language Processing~~

**Publications**

R for the Student in Australian Journal of Economics with JD Long

The Impact of Academically Homogeneous Classrooms with MAJ Jim Pleuss

Disparities in Follow-Up after Low-Dose Lung Cancer Screening with Dr Joanna Sesti

Best (but oft-forgotten) practices: identifying and accounting for regression to the mean in nutrition and obesity researchwith Dr. Diana Thomas

The New Army Combat Fitness Test: An Opportunity to Improve Recruitment and Retainment

Causal Inference in Introductory Statistics Courses. Journal for Statistics Education with LTC Kevin Cummiskey

**Other notes**

- Established data science community relations with ‘R Meetup’ groups

- Mentored cadets

- Sponsored Sandra Jackson

- Sponsoring Scott Lynch

- Finished over 50% of ILE during rating period

- Worked with librarian start movement for CAA’s book club

**Community Service**

**-** Little league baseball bench coach

- Assisted in CAA community clean-up efforts lead by MAJ Joe McCarthy

**Awards / Recognition**

- 2019 Junior Analyst of the Year

-3rd place in Flying Hour Challenge (PA&E Competition)

-2nd place in Fake Twitter Challenge (ICMCIS Competition) (by .00049 points of ‘Area Under the Curve’)