



# 2020 Fall Semester Columbia-FNL Industry Projects

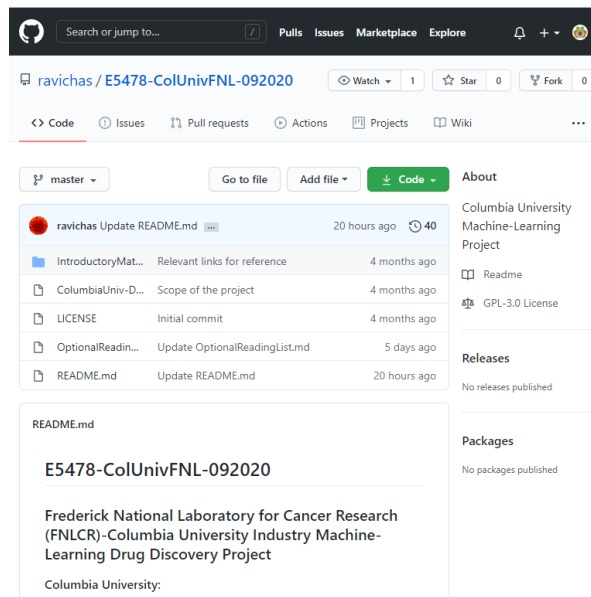
Sarangan Ravichandran,  
BIDS, FNLCR

Jan 22, 2021

# Agenda

- 2:00 PM: Introduction Dr. Ravi Ravichandran, BIDS, FNL
- 2:05 PM: Greetings, Dr. Ethan Dmitrovsky, President, FNL
- 2:10 PM: Student Presentations and Q&A
  - “Feature Selection For Deep-Learning Models,” Mengyao He
  - “Repurposing FDA-approved Drugs: An application to COVID-19,” Vincent Fleury
  - “Predicting Kinase Inhibitors Using Small-Molecule Structure Information,” Jady Tian
- 2:55 PM: Closing remarks Dr. Eric Stahlberg

# Student Project Overview



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Columbia University Machine-Learning Project

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Packages

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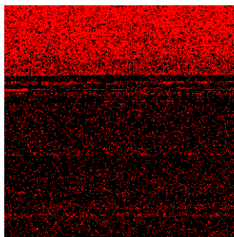
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Frederick National Laboratory for Cancer Research (FNLRCR)-Columbia University Industry Machine-Learning Drug Discovery Project

Columbia University:



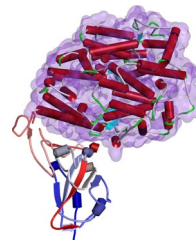
**Mengyao He**



**Genomics/Feature Selection**



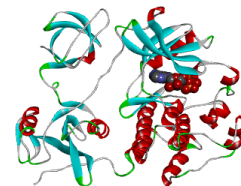
**Vincent Fleury**



**SARS-Cov-2 Spike RBD**



**Jady Tian**



**Kinase inhibition**

<https://github.com/ravichas/E5478-ColUnivFNL-092020>

# Special Thank You to:

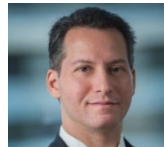
- **ATOM Team**

- Dr. Jim Brase, LLNL
- Dr. Jonathan Allen, LLNL
- Dr. Amanda Paulson, BIDS, FNL
- Dr. Da Shi, BIDS, FNL

- **FNL Leadership**

- Dr. Ethan Dmitrovsky, FNL
- Dr. Maggie Scully, PDO, FNL
- Dr. Eric Stahlberg, BIDS, FNL

## Mentorship Team



**Michael Robbins**  
Professor,  
Columbia University



**Malin Ortenblad**  
TA, Project Manager  
Columbia University



**Ravichandran Sarangan, PhD**  
Mentor  
Frederick National Lab



**Naomi Ohashi, MPA, PMP**  
Project Manager  
Frederick National Lab