BHI-BSN DATA CHALLENGE 2018

Jump Start Session,
March 5th, 2018,
Las Vegas, NV

WELCOME!

We are:

- Tom J. Pollard, PhD (LCP, MIT)
- Jesse D. Raffa, PhD (LCP, MIT)

Also instrumental in developing the challenge:

- Leo A. Celi, MD (LCP, MIT)
- May D. Wang, PhD (Georgia Tech / Emory)

SPONSORS

VERY BRIEF OVERVIEW

- A data challenge aimed at answering:

Are patients admitted to the intensive care unit on a weekend more likely to die in the hospital than those admitted on a weekday?

- Uses a common dataset: MIMIC-III

- Today: Workshop; Wednesday: Presentations (~7 min)

- Anyone can participate. Typically teams of 2-5 people.

- Teams will be evaluated by judge panel, and awards will be given.

WORKSHOP AGENDA

Today: Jump Start Workshop (You are in the right place)

Part 1:
A. Overview of Data Challenge
B. Introduction to MIMIC-III
C. Introduction to the Data Challenge Research Questions

Part 2:
A. Getting Started with MIMIC-III & the Data Challenge Workshop
B. Help with concepts, MIMIC-III, SQL, Statistics, Python, R…

Also: Do our best to form some new teams.

CHALLENGE TIMELINE

Today / Tomorrow:

    Office Hours: get help with your projects

Tuesday:

    Send Slides to: data-challenge@physionet.org by noon!

 Wednesday:

    Presentation Session: 8:50am – 11:35am (Treasure Island F)

    Closing Ceremonies and Awards: 5:30pm – 6:30pm (Treasure Island ABC)

CHALLENGE WEBSITE

Please see:

https://mimic.physionet.org/events/bhibsn-challenge/

And

https://github.com/MIT-LCP/bhi-bsn-challenge

A SUCCESSFUL CHALLENGE

This is a new format for us.

We will consider it a success if:

1. You tried your best and learned something new.

2. You meet someone new.

3. You became aware of MIMIC-III and thought about how you might use it in the future.

WHAT SHOULD GO IN MY PRESENTATION?

- Presentations are short (~7 mins). Please use your time wisely.

- Cover the methods, results and conclusions.
  - We will try to cover some background so everyone doesn't need to.

- See example presentation on the GitHub repo:
  - https://github.com/MIT-LCP/bhi-bsn-challenge/

We suggest you practice and time your presentation, as we will be strict with time.

HOW WILL MY TEAM BE EVALUATED?

- **Reproducibility**: Could someone easily replicate your results?

  Suggestions: Is your code available and cited?

- **Scientific methods:** Do you describe your methods and are they technically sound?

  Suggestions: Don't try to fit too much into your short presentation

- **Presentation**: Is your presentation concise and clear?

  Suggestions: *Practice*!

- **Novelty**: Does your group do anything innovative and/or new?

  Suggestions: Use your imagination.

Please have a look at our submission checklist on the website.

SUBMISSION CHECKLIST

- Prepare your slides in PDF or PPT format:

    A slide template is provided at: https://github.com/MIT-LCP/bhi-bsn-challenge, but there is no requirement to use it.

    Presentations will be allotted at most 7 minutes.

    Presentations must include: methodology, results and conclusions.

- Is your project reproducible?

    Is your code publicly available?

    Could someone replicate your study cohort and analysis easily?

    Have you clearly cited your data sources?

- Have you emailed your presentation to the challenge organizers at data-challenge@physionet.org? Deadline: 6 March 2018.

Please arrive the conference room of the presentation session at least 15 minutes in advance of the start of the session and introduce yourself to the session chair.

ANYONE WITHOUT A TEAM?