Who are we?

Your hosts:
Pittsburgh Supercomputing Center

part of

ACCESS | Advancing Innovation
Who am I?

John Urbanic

*Distinguished Service Professor*
Carnegie Mellon University

Undergrad Advanced Computational Physics
Graduate Large Scale Computing
Data Science Capstone Projects

*Parallel Computing Scientist*
Pittsburgh Supercomputing Center

Code, code, code, on
Parallel platforms: MPI, OpenMP, OpenACC, ...
Big Data platforms: Spark, ...
Machine Learning: Spark, TensorFlow, PyTorch, ...
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HPC Monthly Workshop Philosophy

- Workshops as long as they *should* be.

- You have real lives…
  - in different time zones…
  - that don’t come to a halt.

- Learning is a social process
  - This is not a MOOC
  - This is the Wide Area Classroom, so stay engaged!
We absolutely, definitely, without question, wish we had more hands-on exercise time.

This is by design and demand. The topics we cover are all greatly requested and attempts to delete any of them provoke outrage in our surveys. This demand has compressed our hands-on sessions.

One solution is for you to use the remainder of our short days to do further work.

We also assume you will use your extended access to do exercises. Usually this is just a bonus.

Use your time wisely, and ask questions relentlessly.
Monday, August 28th

11:00  Welcome
11:15  Computing Environment
11:30  It’s a Multi-core World
12:00  Intro to OpenMP
1:00   Lunch Break
2:00   Exercise 1
2:45   Advanced OpenMP
4:00   Exercise 2
4:30   OpenMP and GPUs
5:00   Adjourn