Summary

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- ■ Parallel I/O is complex
  - ▶ System complexity and heterogeneity increases significantly
  - ⇒ Expected and measured performance is difficult to assess
  - ▶ HPC users (scientists) and data centers need methods and tools
- ■ Tools, statistics and machine learning help with key aspects:
  - ▶ Diagnosing causes and identify anomalies
  - ▶ Predicting performance
  - ▶ Prescribing best practices
- ■ I work towards intelligent systems to increase insight and ease the burden for users
  - ▶ Novel interfaces are needed to unleash the full potential of system resources