SOQR Health Data Analytics Training Workshop

Logistics
- **Date:** Fri Oct 12, 2018
- **Place/Time:** 1-5 PM, 426 N. Ingalls Str. (SNB 1250), University of Michigan
- **Organizers:** SOCR Team, MNORC-IBIC, HAC
- **Registration:** (space is limited to 25!) Please use this link to register for the training workshop. If there is sufficient interest, we may offer a live stream via BlueJeans.
- **Format:**
  - Presentations: capabilities, resources, and expertise (6 x 15-min)
  - Participant-led challenges, case-studies, template below, (20-30-min)
  - Hands-on Consulting, Try-It-Now, apply to new data (120-min)
  - Participants should bring laptops, and datasets, to try some of the resources hands-on at the training workshop

Presenters
- Ivo Dinov: SOCR Platform and Data Science and Predictive Analytics
- Alexandr Kalinin: SOCRAT, ML analytics
- Simeone Marino: Analytics, CBDA, DataSifter
- Nina Zhou: DataSifter, Biostats, Analytics
- Syed Husain: Data Dashboard, Viz/DVT, ML/BlueML
- Jerome Choi: Nutrition and Obesity Case-Study (mothers & newborns)

Background
- Michigan Nutrition Obesity Research Center (MNORC) and the Integrative Biostatistics and Informatics Core (IBIC)
- SOCR Website and Health Analytics Collaboratory (HAC) website
- SOCR Navigators
- SOCR Datasets and Challenging Case-studies
- Electronic Textbooks: Probability and Statistics EBook, Scientific Methods for Health Sciences, Data Science and Predictive Analytics
- Hands-on interactive visualization of extremely high-dimensional data
- SOCR News & Events
- SOCR Global Users

Services
- Provide expertise in experimental design and modeling for preclinical, clinical and translational research studies that integrate clinical, molecular, neurobehavioral and other phenotype data.
- Provide guidance on the appropriate data architecture to enable integration and mining of data.
- Provide guidance and training in techniques and technologies to integrate and mine investigator generated or existing data sets.
- Assist investigators in the development of secure, Health Insurance Portability and Accountability Act (HIPAA)-compliant databases.
- Develop and promote the use of software tools for data visualization.
- Collaborate with other investigators, projects and centers to develop optimal data handling procedures and data housing systems, provide researcher friendly reports with suggestions for appropriate analytical tools.

Case-Studies
Participants are encouraged to bring case-studies, and their laptops, to the training workshop.

Acknowledgments
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- SOCR: http://www.socr.umich.edu