

SOCR Health Data Analytics Training Workshop

[http://wiki.socr.umich.edu/index.php/SOCR News 2018 MNORC SOCR HAC Workshop](http://wiki.socr.umich.edu/index.php/SOCR_News_2018_MNORC_SOCR_HAC_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>