

Lawrence Technological University – OpenEd Workshop

April 12, 2022

Topic: *Teaching Data Science with Technology*

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URL: https://wiki.socr.umich.edu/index.php/LTU_OpenEd_Workshop_April_2022

<u>OpenEd Challenges</u>	Biomedical & Health Sciences SOCR, MIDAS & MBDH approaches
• Lack of access to existing, effective, modern, active-learning resources	Embrace Open and FAIR Data Science
• Credit, acknowledgement, and recognition	Give credit, entice independent enhancements
• Storage, computing, networking limitations	Challenging, but Google, MS, AMZ, NVIDIA, RStudio provide free Ed support
• Collaboration <ul style="list-style-type: none">○ Cross-institutional partnerships (limited time, funding, HR),○ Transdisciplinary interactions (non-trivial),○ Application domain repurposing (requires team-science support)	Engage with fellow academics (MBDH, professional Societies), offer open-enrollment short courses, MOOCs. Collaborate with partners on R&D projects
• Licensing restrictions and obfuscated entries (best to permissive CC-BY, LGPL, MIT, BSD)	LGPL for software and code, CC-BY for content

Core Principles

- *It's Online and Openly Accessible, Therefore, it Exists!* ([SOCR motto](#), since founding in 2002)
- *FAIR* (Findable, Accessible, Interoperable, and Reusable) resources
- Supporting the *common-good, equitable, fair, transparent, trustworthy, rigorous, transdisciplinary, and sustainable Ed*

Demonstrations

- Resource navigators ([graphical](#), [key phrase search](#))
- [Electronic books](#)
- [MOOCs](#)
- [Driving STEM-motivational challenges](#) and [open data resources](#)
- [Software tools](#), [R-packages](#), [DSPA active-learning resources](#), and [webapps](#),
- Collaborative Open-Science ([GitHub](#), [Ongoing Research Project](#), [Consulting](#), [Pubs](#))

Contact: Questions, comments, collaborations, and suggestions are always welcome.