



Contribution ID: 50

Type: **Poster**

## Enhancing Research Data Usability through TurboCurator: An AI-Driven Tool for Creating FAIR Metadata

*Monday 13 October 2025 18:00 (1h 30m)*

ICPSR is one of the world's largest social science data archives and is located at the Institute for Social Research at the University of Michigan. ICPSR has pioneered an AI-driven tool called TurboCurator, designed in collaboration with Harvard's Dataverse, to promote FAIR data principles by providing an easy to use tool to improve the quality of metadata. Often, data depositors provide insufficient metadata, making the data harder to reuse. This poster showcases the development and application of TurboCurator, a tool that assists data depositors by generating suggestions for Title, Description, and Keywords—identified as key metadata components through user research with data depositors and data curators at data archives around the world.

Furthermore, the poster demonstrates how incorporating worldwide social science metadata standards in post-processing checks provides quality assurance for the suggested metadata. TurboCurator quickly generates recommendations, but ultimately, the data depositor decides which metadata to use. By streamlining the data submission process, TurboCurator enhances the overall quality and usability of research data, thereby supporting open science.

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**Session Classification:** Poster Session

**Track Classification:** SciDataCon2025 Specific Themes: Rigorous, responsible and reproducible science in the era of FAIR data and AI