Stanford



Josef Hardi

Software Dvlpr 3, Computational Medicine

Bio

BIO

I'm a research software engineer in the Division of Computational Medicine at Stanford University. I hold a bachelor's degree in computer science and a master's degree in software engineering. My work interests include developing tools that support biomedical research, building AI-assisted systems, and designing reproducible methods to evaluate AI performance and reliability.

CURRENT ROLE AT STANFORD

Senior Software Engineer

EDUCATION AND CERTIFICATIONS

- MSc, Free University of Bozen-Bolzano, Italy , Software Engineering (2010)
- MSc, Blekinge Institute of Technology, Sweden , Software Engineering (2008)
- BSc, University of Indonesia, Indonesia , Computer Science (2006)

Publications

PUBLICATIONS

- **Knowledge Engineering for Open Science: Building and Deploying Knowledge Bases for Metadata Standards.** *AI magazine*
  Musen, M. A., O'Connor, M. J., Hardi, J., Martínez-Romero, M.
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- **HuBMAP Data Portal: a resource for multimodal spatial and single-cell data of healthy human tissues.** *Nature communications*
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- **The HuBMAP Framework for Advancing Data FAIRness.** *bioRxiv : the preprint server for biology*
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- **A general strategy for generating expert-guided, simplified views of ontologies.** *Scientific data*
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- **Knowledge Engineering for Open Science: Building and Deploying Knowledge Bases for Metadata Standards** *AI MAGAZINE*
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- **Construction, Deployment, and Usage of the Human Reference Atlas Knowledge Graph.** *Scientific data*
  Bueckle, A., Herr, B. W., Hardi, J., Quardokus, E. M., Musen, M. A., Borner, K.
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- **Human BioMolecular Atlas Program (HuBMAP): 3D Human Reference Atlas construction and usage.** *Nature methods*
  Borner, K., Blood, P. D., Silverstein, J. C., Ruffalo, M., Satija, R., Teichmann, S. A., Pryhuber, G. J., Misra, R. S., Purkerson, J. M., Fan, J., Hickey, J. W., Molla, G., Xu, et al
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- **Ensuring Adherence to Standards in Experiment-Related Metadata Entered Via Spreadsheets.** *Scientific data*
  O'Connor, M. J., Hardi, J., Martinez-Romero, M., Somasundaram, S., Honick, B., Fisher, S. A., Pillai, A., Musen, M. A.
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- **Construction, Deployment, and Usage of the Human Reference Atlas Knowledge Graph for Linked Open Data.** *bioRxiv : the preprint server for biology*
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- **The scalable precision medicine open knowledge engine (SPOKE): A massive knowledge graph of biomedical information.** *Bioinformatics (Oxford, England)*
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- **Modeling community standards for metadata as templates makes data FAIR.** *Scientific data*
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- **Unleashing the value of Common Data Elements through the CEDAR Workbench.** *AMIA ... Annual Symposium proceedings. AMIA Symposium*
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- **Using association rule mining and ontologies to generate metadata recommendations from multiple biomedical databases.** *Database : the journal of biological databases and curation*
  Martinez-Romero, M., O'Connor, M. J., Egyedi, A. L., Willrett, D., Hardi, J., Graybeal, J., Musen, M. A.
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