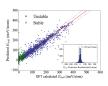


SI2-SSI Collaborative Research: A Computational Materials Data and Design Environment Dane Morgan (*Univ. of Wisconsin*), ACI-Award 1148011

Developed tools/data for computational materials design:



The Materials Simulation Toolkit (MAST) for high-throughput defect and diffusion modeling[1]



A Machine Learning extension (MAST-ML) to rapidly generate machine learning models from materials data[2].



Online defect and diffusion analysis apps on MaterialsHub[3].



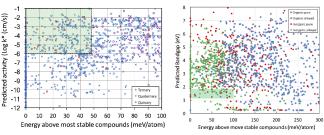
The world's largest computed and machine learning enhanced diffusion database with easy online search[4].



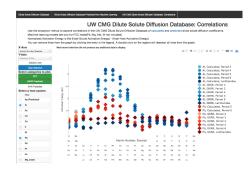
Valuable research results using these tools and data, e.g. new fuel cell materials[5].



Workforce training through the *Informatics Skunkworks*, an undergraduate materials informatics group[6].



New materials for fuel and solar cells.



Database of of diffusion coefficients.



50+ undergraduates in Skunkworks