Russell Greiner, PhD

- Professor, Faculty of Science, Department of Computing Science, University of Alberta

- Principal Investigator, Alberta Machine Intelligence Institute (Amii)

- Research Affiliate, Glenrose Rehabilitation Hospital

Recent Publications

Kalmady S, **Greiner R,** Agrawal R, Shivakumar V, Narayanaswamy J, Brown M, Greenshaw A, Dursun S, Venkatasubramanian G. Towards Artificial Intelligence in Mental Health by Improving Schizophrenia Prediction with Multiple Brain Parcellation Ensemble-Learning. *Nature Schizophrenia*, 51(1), Jan 19.

Tian S, Djoumbou F, **Greiner R,** Wishart D. CypReact: A Software Tool for in Silico Reactant Prediction for Human Cytochrome P450 Enzymes. *Journal of Chemical Information and Modeling,* 58(6), pp 1282-1291, May 2018.

Andres A, Montano-Loza A, **Greiner R**, Uhlich M, Jin P, Hoehn B, Bigam D, Shapiro J, Kneteman N. A Novel Learning Algorithm to Predict Individual Survival After Liver Transplantation for Primary Sclerosing Cholangitis, *PLOS One*, pp 14, Mar 2018.

Seyednasrollah F, Koestler D, Wang T, Piccolo S, Vega R, **Greiner R**, Fuchs C, Gofer E, Kumar L. A DREAM Challenge to Build Prediction Models for Short-Term Discontinuation of Docetaxel in Metastatic Castration-Resistant Prostate Cancer. *Journal of Clinical Oncology: Clinical Cancer Informatics, July 2017.*

After earning a PhD from Stanford, Russ Greiner worked in both academic and industrial research before settling at the University of Alberta, where he is now a Professor in Computing Science and the founding Scientific Director of the Alberta Innovates Centre for Machine Learning (now Alberta Machine Intelligence Institute), which won the ASTech Award for "Outstanding Leadership in Technology" in 2006. He has been Program Chair for the 2004 International Conference on Machine Learning, Conference Chair for 2006 International Conference on Machine Learning, Editor-in-Chief for "Computational Intelligence", and is serving on the editorial boards of a number of other journals.

He was elected a Fellow of the AAAI (Association for the Advancement of Artificial Intelligence) in 2007, and was awarded a McCalla Professorship in 2005-06 and a Killam Annual Professorship in 2007. Dr. Greiner has published over 200 refereed papers and patents, most in the areas of machine learning and knowledge representation, including four that have been awarded Best Paper prizes. The main foci of his current work are: 1) bioinformatics and medical informatics, 2) learning and using effective probabilistic models, and 3) formal foundations of learnability.

Inspiration/Vision Statement:

Using machine learning techniques to produce effective, evidence-based personalized treatment.