

OHPL

2017 - Ordered homogeneity pursuit lasso algorithm for group feature selection.

hdnom

2015 - Benchmarking and visualization toolkit for high-dimensional survival modeling.

protr

2012 - Efficient protein sequence feature extraction for machine learning modeling.

Rcpi

2013 - Integrative molecular feature extraction for computational drug discovery.

RECA

2012 - Relevant component analysis algorithm for supervised distance metric learning.

grex

2016 - Gene ID mapping for Genotype-Tissue Expression (GTEx) data.

R Packages Contributed

mxnet-r

2015 - Contributor of the R binding for Amazon-backed deep learning framework [MXNet](#).

dml

2015 - Distance metric learning toolkit for dimensionality reduction in computer vision.

Web Applications Authored

2013 - 6 Shiny web applications for biological, pharmaceutical, and image data analysis.

- [hdnom.io](#) (selected as [Shiny User Showcase](#) by RStudio, Inc.)
- [dockflow.org](#) | [imgsvd.com](#) | [targetnet.org](#) | [protr.org](#) | [p-values.org](#)

Publications

- 2013 -
- 8 journal papers on statistical machine learning methodology, high-dimensional sparse regression, feature selection, and recommender systems. [[Google Scholar](#)]
 - 4 translated books on predictive modeling, data visualization, and R programming.

Education

2015 - 2016	Ph.D. Student (Human Genetics). The University of Chicago.	Chicago, IL
2012 - 2018	Ph.D. Candidate (Statistics). Central South University.	Changsha, China
2008 - 2012	Bachelor of Science (Statistics). Central South University.	Changsha, China

Skills

Extensive research and engineering experience in: R, Shiny, Docker, Redis, AWS, Google Cloud, statistical machine learning, predictive modeling, deep learning, large-scale linear models, recommender systems, data fusion, data visualization, and cancer genomics.

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