Yi Tan

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RESEARCH INTERESTS

Machine/Statistical learning, business analytics, empirical research in OM/Finance interface

EDUCATION

UNIVERSITY OF KANSAS

PhD in Analytics, Information, and Operations Management   May 2020

UNIVERSITY OF CINCINNATI

MS in Business Analytics   December 2013

WUHAN UNIVERSITY

BS in Statistics   August 2011

RESEARCH

Publications

- **Tan, Y.**, Shenoy, P.P., Chan, M.W., and Romberg, P.M. (2016): On construction of hybrid logistic regression-naïve Bayes model for classification. In *Proceedings of Machine Learning Research: Conference on Probabilistic Graphical Models* (Vol. 52. pp. 523-534).

- **Tan, Y.**, and Shenoy, P.P. (2020): A bias-variance based heuristic for constructing a hybrid logistic regression-naive Bayes model for classification. *International Journal of Approximate Reasoning*, 117, 15-28.

- **Tan, Y.**, Shenoy, P.P., Sherwood, B., Gaddy, M., Oehlert, M., and Shenoy, C.: Bayesian network models for PTSD screening in veterans. Accepted at *Journal on Computing*.

Working Papers

- **Tan, Y.**, Shenoy, P. P., and Sherwood, B.: A naïve Bayes regularized logistic regression model for classification. Under review at *IEEE Transactions on Pattern Analysis and Machine Intelligence*.

- **Tan, Y.**, Xi, Y., and Arikan, M.: Politics and inventory: An empirical examination of the impact on inventories of CEO political ideology alignment with the US President's party.

Work in Progress

- Bao, K, **Tan, Y.**, Tang, Y., Yu, X.: CEO overconfidence and corporate alliance: An empirical investigation.

- Bao, K, **Tan, Y.**, Zhao, X.: External patent law expertise and patenting performance: insights from China.

- **Tan, Y.**, Orman, W., Pham, H., Patnayakuni, R.: A Bayesian network model for early detection of students' course failure.

- Yi, X., **Tan, Y.**: Commuting stress and job turnover: A longitudinal investigation.

PRESENTATIONS

A new Bayesian network-based approach for PTSD detection
Phoenix, AZ, November 2019   INFORMS Annual Meeting

Impact of political ideology alignment on inventory management decision
Houston, TX, November 2017   INFORMS Annual Meeting
Houston, TX, May 2018   POMS Annual Meeting

On construction of hybrid logistic regression-naive Bayes model for classification
Lugano, Switzerland, September 2016   PGM 2016 Conference

A new model for evaluating NBA players
San Francisco, CA, November 2014   INFORMS Annual Meeting

EXTERNAL FUNDING AND COLLABORATIONS
- Lockheed Martin Space Systems, Sunnyvale, CA
- Veterans Affairs Eastern Kansas Health Care System, Leavenworth, KS

TEACHING EXPERIENCE

Instructor
- MSC 641 – Advanced Analytics
- MSC 550 – Intro Analytics & Programming
- MSC 287 – Business Statistics I
- SCM 415 – Data Analysis and Forecasting

Guest Lecture
- DSCI 920 – Probability for business research

Teaching Assistant
- Advanced statistics (DSCI 712, 713), Probability for business research (DSCI 920), Statistics for business research (DSCI 921).

WORKING EXPERIENCE

UC College of Pharmacy   Cincinnati, Ohio
Research Assistant   February 2013 to March 2014
- Large-database manipulation, statistical analysis for projects in the areas of end stage renal disease, kidney dialysis, and transplantation.

Guotai Jun'an Securities Co. LTD   Wuhan, China
Internship   July 2012 to September 2012
- Data analyst for Chinese stock market.

AWARDS

John O. Tollefson Best Paper Award   University of Kansas, 2020

SOFTWARE EXPERTISE
- SAS, R, Python, MATLAB, SQL, STATA, HUGIN, GAMS, AMPL, Arena, Crystal Ball