## Statistical and Intelligent Learning for Big Data, Bayesian Analysis, Clinical Trials, Data Mining, Deep Learning

_		_
	× I I	
	UI	UMI

PUBLICATION

TEACHING

SOFTWARE

JOIN US

CONTACT

**Professor Guosheng Yin** 

Head of Department	(2017 Sep – )	
Professor	(2014 - present)	Department of Statistics & Actuarial Science, University of Hong Kong
Associate Professor	(2009 - 2014)	Department of Statistics & Actuarial Science, University of Hong Kong
Associate Professor	(2008 - 2009)	Department of Biostatistics, University of Texas M.D. Anderson Cancer Center
Assistant Professor	(2003 - 2008)	Department of Biostatistics, University of Texas M.D. Anderson Cancer Center

Ph.D. in Biostatistics (2003), University of North Carolina at Chapel Hill World's top 1% of scientists by Thomson Reuters (2015) Fellow of American Statistical Association (2013) Elected Member of International Statistical Institute (2012) UNC-Chapel Hill Distinguished Alumni Award (2009)

Associate Editor	(2018 – present)	Statistical Analysis and Data Mining
Associate Editor	(2018 - present)	Japanese Journal of Statistics and Data Science
Associate Editor	(2013 - present)	Journal of American Statistical Association
Associate Editor	(2012 - present)	Contemporary Clinical Trials
Associate Editor	(2009 - 2015)	Bayesian Analysis

Selected Short Courses

Adaptive Methods for Modern Clinical Trials 2015 Joint Statistical Meeting, Seattle, USA Adaptive Methods for Modern Clinical Trials 2014 Joint Statistical Meeting, Boston, USA Clinical Trial Design: Overview and New Development 2012 Osaka University, Osaka, Japan

## Lecture on youtube

Royal Statistical Society Webinar, 2015, Adaptive Designs National University of Singapore Institute for Mathematical Sciences, 2017, NOC Design

## Newly Accepted Papers

Shi, H. and Yin, G. (2018). Bayesian enhancement two-stage design for single-arm phase II clinical trials with binary and time-to-event endpoints. Biometrics, in press.

Dong, F. and Yin, G. (2018). Maximum likelihood estimation for incomplete multinomial data via the weaver algorithm. Statistics and Computing, in press. Wang, G., Zou, C., and Yin, G. (2018). Change-point detection in multinomial data with a large number of categories. Annals of Statistics, in press. Lin, R. and Yin, G. (2017). Nonparametric overdose control with late-onset toxicity in phase I clinical trials. Biostatistics 18, 180-194. Shi, H. and Yin, G. (2017). Bayesian two-stage design for phase II clinical trials with switching hypothesis tests. Bayesian Analysis 12, 31–51. Lin, R. and Yin, G. (2016). Bootstrap aggregating continual reassessment method for dose finding in drug-combination trials. Annals of Applied Statistics 10, 2349-2376.

## Selected Publications

Wu, Y., Ma, Y., and Yin, G. (2015). Smoothed and corrected score approach to censored quantile regression with measurement errors. Journal of the American Statistical Association 110, 1670-1683.

Wu, Y. and Yin, G. (2013). Cure rate quantile regression for censored data with a survival fraction. Journal of the American Statistical Association 108, 1517–1531. Yuan, Y. and Yin, G. (2011). Robust EM continual reassessment method in oncology dose finding. Journal of the American Statistical Association 106, 818-831. Yin, G. and Yuan, Y. (2009). Bayesian model averaging continual reassessment method in phase I clinical trials. Journal of the American Statistical Association 104, 954-968.

Yin, G., Li, H., and Zeng, D. (2008). Partially linear additive hazards regression with varying coefficients. Journal of the American Statistical Association 103, 1200-1213.

Yin, G., Zeng, D., and Li, H. (2008). Power-transformed linear quantile regression with censored data. Journal of the American Statistical Association 103, 1214–1224. Ma, Y. and Yin, G. (2008). Cure rate model with mismeasured covariates under transformation. Journal of the American Statistical Association 103, 743-756. Zeng, D., Yin, G., and Ibrahim, J. (2006). Semiparametric transformation models for survival data with a cure fraction. Journal of the American Statistical Association 101, 670-684

Zeng, D., Yin, G., and Ibrahim, J. (2005). Inference for a class of transformed hazard models. Journal of the American Statistical Association 100, 1000-1008. Zeng, D., Lin, D. Y., and Yin, G. (2005). Maximum likelihood estimation in proportional odds model with random effects. Journal of the American Statistical Association 100, 470-483.

Ro, K., Zou, C., Wang, Z., and Yin, G. (2015). Outlier detection for high dimensional data. Biometrika 102, 589-599.

Wu, Y. and Yin, G. (2014). Conditional quantile screening in ultrahigh-dimensional heterogeneous data. Biometrika 102, 65-76.

Li, H. and Yin, G. (2009). Generalized method of moments for linear regression with clustered failure time data. Biometrika 96, 293-306.

Yin, G. and Cai, J. (2004). Additive hazards model for multivariate failure time data. Biometrika 91, 801-818.

Zou, C., Yin, G., Feng, L., and Wang, Z. (2014). Nonparametric maximum likelihood approach to multiple change-point problems. Annals of Statistics 42, 970–1002. Liu, S., Yin, G., and Yuan, Y. (2013). Bayesian data augmentation dose finding with continual reassessment method and incomplete observations. Annals of Applied Statistics 7, 2138-2156.

Yuan, Y. and Yin, G. (2011). Bayesian Phase I/II adaptively randomized oncology trials with combined drugs. Annals of Applied Statistics 5, 924-942.

Yin, G. (2009). Bayesian generalized method of moments (with discussion). Bayesian Analysis 4, 191-208; and Rejoinder, 217-222.

Yuan, Y. and Yin, G. (2011). Dose-response curve estimation: A semiparametric mixture approach. Biometrics 67, 1543–1554.

Yuan, Y. and Yin, G. (2010). Bayesian quantile regression for longitudinal studies with nonignorable missing data. Biometrics 66, 105-114.

Yin, G. and Yuan, Y. (2009). A latent contingency table approach to dose finding for combinations of two agents. Biometrics 65, 866-875.

Cong, X., Yin, G., and Shen, Y. (2007). Marginal analysis of correlated failure time data with informative cluster sizes. Biometrics 63, 663–672.

Yin, G., Li, Y., and Ji, Y. (2006). Bayesian dose-finding in phase I/II trials using toxicity and efficacy odds ratio. Biometrics 62, 777-784.

Yin, G. (2005). Bayesian cure rate frailty models with application to a root canal therapy study. Biometrics 61, 552–558. Yin, G. and Ibrahim, J. (2005). A general class of Bayesian survival models with zero and non-zero cure fractions. Biometrics 61, 403-412.

Yin, G. and Shen, Y. (2005). Adaptive design and estimation in randomized clinical trials with correlated observations. Biometrics 61, 362-369.

Yin, G. and Ibrahim, J. (2005). A class of Bayesian shared gamma frailty models with multivariate failure time data. Biometrics 61, 209-217.

Yin, G. and Cai, J. (2005). Quantile regression models with multivariate failure time data. Biometrics 61, 152-162.

Xu, J. and Yin, G. (2014). Two-stage adaptive randomization for delayed response in clinical trials. Journal of Royal Statistical Society C 63, 559-578. Yin, G., Chen, N., and Lee, J. J. (2012). Phase II trial design with Bayesian adaptive randomization and predictive probability. Journal of Royal Statistical Society C 61, 219-235.

Yin, G. and Yuan, Y. (2009). Bayesian dose finding in oncology for drug combinations by copula regression. Journal of Royal Statistical Society C 58, 211–224. Ji, Y., Li, Y., and Yin, G. (2007). Bayesian dose finding in phase I clinical trials based on a new statistical framework. Statistica Sinica 17, 531–547.



Yin, G. and Ibrahim, J. (2005). Cure rate models: a unified approach. Canadian Journal of Statistics 33, 559–570. Lee, J. J., Chen, N., and Yin, G. (2012). Worth adapting? Revisiting the usefulness of outcome-adaptive randomization. Clinical Cancer Research 18, 4498–4507. Yuan, Y. and Yin, G. (2011). On the usefulness of outcome-adaptive randomization. Journal of Clinical Oncology 29, e390–e392.

© 2016 Guosheng Yin. All rights reserved.