CURRICULUM VITAE

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Degrees:

* Ph.D., Statistics, University of California at Los Angeles, June, 1986. (Adviser: T.S. Ferguson).
* M.S., Statistics, University of California at Los Angeles, December, 1983.
* B.A. Mathematics, Zhongshan University, China February, 1982.

Experience:

* 2006 – Associate Editor, International Journal of Statistics and Management Systems,
* 2006 – Guest Professor, Mathematics Dept., the South China Agricutural University.
* 2005 – Guest Professor, Statistics Dept., Zhongshan University.
* 2001 – Full Professor, Math. Dept., State Univ. of New York (SUNY) at Binghamton.
* 1999 – 2004 : Guest Associate Professor, Statistics Dept., Zhongshan University.
* 09/1997 – 08/2001: Associate Professor, Math. Dept., SUNY at Binghamton.
* 08/1995 - 08/1997: Assistant Professor, Math. Dept., SUNY at Binghamton.
* 08/1989 - 07/1995: Assistant Professor, Appl. Math. and Statist. Dept., SUNY at Stony Brook.
* 1991 - 1992: Visiting Scientist, Cold Spring Harbor Laboratory, N.Y.
* 1988 - 1989: Senior programmer, Biostatistic Div., Sloan-Kettering Cancer Ctr., N.Y.
* 01/1988 - 06/1989: Visiting Scientist, Dept. of Math., William Paterson College of New Jersey.
* 08/1986 - 12/1987: Assistant Professor, Dept. of Math., Northeastern University.
* 09/1983 - 07/1986: Teaching Assistant, Math Dept., UCLA.
* 02/1982 - 08/1982: Assistant Teacher, Math Dept., Zhongshan University, China.
* 10/1978 - 02/1982: Student, Math Dept., Zhongshan University, China.
* 03/1976 - 10/1978: Mechanic, Guangdong Province Tractor Manufactory, China.
* 12/1970 - 03/1976: Soldier, Chinese Navy.
* 11/1968 - 12/1970: Peasant, Guangdong Province, China.

Past Ph.D students:

* Yan, Xiaorong, Ph.D. 1985, currently works at FDA. Thesis: "Weighted product-limit statistic: A class of location tests for truncated survival data".
* Yu, Shaohua, Ph.D. 2000, currently works at Novartis Pharmaceutical Corporation in New Jersey. Thesis: "Consistency of the generalized MLE with multivariate mixed case interval-censored data".
* Wang, Xueqin, Ph.D. 2003, Full Professor, currently works at Zhongshan University. Thesis " The properties of the Theil-Sen estimator".
* Kong, Fanhui, Ph.D 2005, Assistant professor, currently works at Wilks University, Pennsylvania. Thesis "Asymptotic distributions of the Buckley-James estimator".
* Chen, Cuixian, Ph.D in 2007, Assistant professor, University of North Carolina Wilmington. Thesis "Asymptotic Properties of the Buckley-James Estimator for a Bivariate Interval Censorship Regression Model".
* Wang, Jiaping , Ph.D in 2009, assistant professor, University of North Texas. Thesis " The generalized mle with the censored and masked competing risks data"
* Hsu, Yuting, Ph.D in 2011. Assistant Professor, currently in Penn State at Harrisburg. Thesis "Statistical analysis of firm interdependence using duration data".
* Li, Jaihui, Ph.D in 2012, postdo, current in industry. Thesis "Nonparametric estimation with right censored and masked competing risks data". Currently at Janssen, Pharmaceutical Companies of Johnson and Johnson
* Diao, Qinggang, Ph.D in 2016. Thesis "COX PROPORTIONAL HAZARDS MODEL WITH TIME-DEPENDENT COVARIATES". Currently at Wells Fargo. Charlotte, NC.
* Dong, Junyi Ph.D in 2016. Thesis "Marginal distribution method for checking regression model assumption". Currently at St. Ambrose University.

Consultant services:

* "Bell Atlantic Redemption Analysis". Dine-A-Mate Corporate Headquarters. Binghamton. 1996- 1998.
* "Positron emitters and PET in Metabolism and Neurology". Dr. Joanna Fowler, Chemistry Department, Brookhaven National Lab. 1994-
* "Brain MAOB in Normal Aging". Dr. Joanna Fowler, Chemistry Department, Brookhaven National Lab. 1994-
* "Brain Dopamine Activity in Normal Aging". Dr. Nora Volkow, Medical Department, Brookhaven National Lab. 1994-

Grants: PI in 8 grants (5 from NSF, 2 from DOD),
co-PI in 2 grants,
participant in 5 grants (2 from NSF, 1 from DOD, 2 from NIH).

Papers: 75 papers published in reviewed journals with more than 17 in the Scinece Citation Index.

Grants:

Principal Investigator or Co-Principal Investigator of Grants				
Source	PIs	Title & Number	Amount	Period
NSF[1]	Q. Yu	Estimation of a distribution or survival function DMS-9001194	$33,000	7/1/90–6/30/92
NSF	Q. Yu H. Chen	Semiparametric models & estimation of survival function. DMS-9202070	$30,000	9/1/92–8/31/95
NSF	Q. Yu	The Generalized MLE and Redistribution-to-the-center Estimator of a survival function. DMS-9402561	$30,000	9/1/94–8/31/96
DOD[2]	Q.Yu	Statistical methods for analyzing time-dependent events in breast cancer chemoprevention studies DAMD17-94-J-4332	$152,953	9/1/94–8/31/97
EPRI[3]	S. Finch Q. Yu	Association of air pollution with health effects RP325303	$40,000	6/1/94–9/1/94
EPRI	S. Finch Q. Yu	New York environmental externality costing study RP323108	$60,000	7/15/94–12/31/94
SUNY	Q. Yu	Faculty Infrastructure Allocation 240-9243N	$4,027	9/1/96–8/31/99
DOD[2]	Q.Yu	Cox regression model for interval-censored data in breast cancer follow-up studies DAMD17-00-1-0448	$76,594	7/1/00–6/31/03
NSF	Q. Yu	A novel model for competing risks data with masking DMS- 0803456	$194,999	6/1/08–5/31/11
NSF	Q. Yu	Right censorship model & double censorship model allowing dependent survival time & censoring time DMS- 1106432	$160,001	7/15/11–6/30/14

Note:

[1] NSF: The national science foundation.

[2] DOD: U.S Department of Defence.

[3] EPRI: The electrical power research institute.

NIH: National Institute of Health.

[5] Q. Yu is one of the ten participants of the award.

[6] Q. Yu is one of the several participants of the award.

[7] Q. Yu is one of the 2 participants of the award.

Participant of grants				
Source	PIs	Title & Number	Amount	Period
NSF[5]	J. Glimm A. Groll- man Stony Brook	Industrial and interdisci- plinary mathematics DMS-9312098	$800,000	9/1/93– 8/31/97
NSF[6]	A. Tucker Stony Brook	Statistical computing equipment Grant DMS-9421613	$28,400	9/1/94– 8/31/95
NIH[6]	Yen Wei Drexel Univ.	Novel Molecular Composite Dental Materials	$633,464	4/1/95 – 3/31/99.
DOD[7]	G. Wong (Strang Cancer Prevention Center)	Statistical analysis of multivariate interval-censored data in breast cancer follow-up studies DAMD17-99-1-9390	$436,354	7/1/99– 6/31/02
NIH[6]	Yen Wei Drexel Univ.	Novel Molecular Composite Dental Materials RO1-DE09848	$1,237,991	8/1/02 – 7/31/07.

Publications

Papers in the Science citation index are marked by *.

*[1] Yu, Q. Q. (1989). Inadmissibility of the empirical distribution function in continuous invariant problems. *Ann. Statist.*, 17, 1347-1359.

[2] Yu, Q. Q. (1989). Admissibility of the empirical distribution function in the invariant problem. *Statistics & Decisions*, 7, 383-398.

[3] Yu, Q. Q. (1989). Admissibility of the best invariant estimator of a distribution function. *Statistics & Decisions*, 7, 1-14.

[4] Yu, Q. Q. (1989) Methodology for the invariant estimation of a continuous distribution function. *Ann. Inst. Statist. Math.*, 41, 503-520.

[5] Yu, Q. Q. (1990). Admissibility of linear estimators in the fisheries census. *Metrika*, 37, 245-252.

*[6] Yu, Q. Q. and Chow, M.S. (1991) Minimaxity of the empirical distribution function in invariant estimation. *Ann. Statist.*, 19, 935-951.

[7] Phadia, E. G. and Yu, Q. Q. (1991). Minimaxity and admissibility of the product limit estimator. *Ann. Inst. Statist. Math.*, 43, 579-596.

[8] Yu, Q. Q. (1992). Inadmissibility of the best invariant estimator of a distribution function. *Sankhya*. A., 54. 74-79.

[9] Yu, Q. Q. (1992). Minimax invariant estimator of a continuous distribution function. *Ann. Inst. Statist. Math.*, 44, 729-735.

[10] Yu, Q. Q. (1992). A General method of finding a minimax estimator of a distribution function when no equalizer rule is available. *Canadian Journal of Statistics*, 20, 281-290.

[11] Yu, Q. Q. (1992). Minimaxity of the empirical distribution function in discrete invariant estimation of a distribution function. *Statistics & Decisions* 10, 25-38.

*[12] Yu, Q. Q. and Phadia, E. G. (1992). Minimaxity of the best invariant estimator of a distribution function under the Kolmogorov-Smirnov Loss. *Ann. Statist.*, 20, 2192-2195.

[13] Marr, T., Yan, X. and Yu, Q. Q. (1992). Genomic mapping by single copy landmark detection: a predictive model with a discrete mathematical approach. *Mammalian Genome*, 3. 644-649.

[14] Yu, Q. Q. (1993). Admissibility of the empirical distribution function in discrete nonparametric invariant estimation problems. *Statist. Probab. Lett.*, 18. 337-343.

[15] Deng, Y., Glimm, J., Yu, Q. Q. and Eisenberg, M. (1993). Global minimization for problems with multiple local minima. *Appl. Math. Lett.*, 6, 89-90.

[16] Yu, Q. Q. and Phadia, E. G. (1993). Admissibility of the best invariant estimator of a distribution function under the Kolmogorov-Smirnov Loss. *Comm. Statist. A—Theory and Methods*, 22(8). 2103-2124.

[17] Yu, Q. Q. and Li, L. X. (1994). On the strong consistency of the product limit estimator. *Sankhya*, A, 56. 416-430.

*[18] Yu, Q. Q. and Govindarajulu, Z. (1995). Admissibility and minimaxity of the UMVU estimator of $P\{X < Y\}$. *Ann. Statist.*, 23. 598-607.

[19] Yu, Q. Q. and Kuo, L. (1995). An analogy between nonparametric problems of estimating a distribution function and their parametric versions. *Sankhya*. A. 57. 472-485

[20] Yu, Q. Q. and E. G. Phadia (1995). On minimax estimation of a survival function under the right censorship model. *Statistics & Decisions* 14, 73-96.
[21] Campbell, G., Deng, Y., Glimm, J., Wang, Y., Yu, Q. Q., Eisenberg, M. and Grollman, A. (1996). Analysis and prediction of hydrogen bonding of protein-DNA complexes on parallel processors. *J. Comput. Chem.* 17. 1712-1725.
*[22] Li, L. X., Watkins, T. and Yu, Q. Q. (1997). An EM algorithm for smoothing the self-consistent estimator of survival functions with interval-censored data. *Scand. J. Statist.* 24, 531-542.
[23] Baxter, L. A., Finch, S. J., Fredrick, W. L. and Yu, Q. Q. (1997). Comparing estimates of the effects of air pollution on human mortality obtained using different regression methodologies. *Risk analysis*, 17, NO. 3. 273-278.
[24] Li, L. X. and Yu, Q. Q. (1997). Self-consistent estimators of survival functions with doubly-censored data. *Comm. Statist. A—Theory and methods*, 2609-2623.
*[25] Yu, Q. Q. (1998). Admissibility of the best invariant estimators of a discrete distribution function. *Statistica Sinica*, 8. 377-392.
[26] Yu, Q. Q. and Wong, G. Y. C. (1998). Consistency of self-consistent estimators of a discrete distribution function with bivariate right-censored data. *Comm. Statist. A—Theory and methods*, 27, 1461-1476.
[27] Yu, Q. Q., Schick, A., Li, L. X. and Wong, G. Y. C. (1998). Asymptotic properties of the GMLE of a survival function with case 2 interval-censored data. *Statist. Probab. Lett.*, 37, 223-228.
[28] Yu, Q. Q., Schick, A., Li, L. X. and Wong, G. Y. C. (1998). Asymptotic properties of the GMLE in the case 1 interval-censorship model with discrete inspection times. *Canadian Journal of Statistics*, 26, 619-627.
[29] Yu, Q. Q., Li, L. X. and Wong, G. Y. C. (1998). Asymptotic variance of the GMLE of a survival function with interval-censored data. *Sankhya,* A, 60, 184-197.
*[30] Wong, G. Y. C. and Yu, Q. Q. (1999). Generalized MLE Of a joint distribution function with multivariate interval-censored data. *J. Multivariate Anal.* 69, 155-166.
*[31] Yu, Q. Q., Li, L. X. and Wong, G. Y. C. (2000). On consistency of the self-consistent estimator of survival functions with interval censored data. *Scand. J. Statist.*, 27, 35-44.
[32] Yu, Q. Q. (2000). Inadmissibility and admissibility of randomized Wilcoxon tests in discrete two-sample problems. *Statistics & Decisions*, 18, 35-48.
*[33] Schick, A. and Yu, Q. Q. (2000). Consistency of the GMLE with mixed case interval-censored data. *Scand. J. Statist.*, 27, 45-55.
[34] Yu, Q.Q, Wong, G.Y.C. and He, Q.M. (2000). Estimation of a joint distribution function with multivariate interval-censored data when the nonparametric MLE is not unique. *Biometrical Journal*, 42, 747-763.
[35] Yu, Q. Q. and Li, L.X. (2001). Asymptotic properties of the GMLE of self-consistent estimators with doubly-censored data. *Acta Mathematica Sinica*, 17, 581-594.
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[37] Yu, Q.Q. and Wong, G.Y.C. (2002). Asymptotic properties of a modified semi-parametric MLE in linear regression analysis with right-censored data. *Acta Mathematica Sinica*, 18 405-416.
[38] Zhang, Z.Y. and Yu, Q.Q (2002). A minimum distance estimation approach to the two-sample location-scale problem. *Lifetime Data Analysis*, 8, 289-305.
[39] Yu, Q.Q. and Wong, G.Y.C. (2002). How to find all Buckley-James estimates instead of just one ? *J. Stat. Comput. Simul.* 72, 451-460.
*[40] Yu, Q.Q. and Wong, G.Y.C. (2003). Asymptotic properties of the generalized semi-parametric MLE in linear regression. *Statistica Sinica*, 13, 311-326.
[41] Yu, Q.Q. and Wong, G.Y.C. (2003). Semi-parametric MLE in simple linear regression with interval-censored data. *Comm. Statistics—Simulation Comput.*, 32 147-164.
[42] Yu, Q.Q. and Wong, G.Y.C. (2003). The semi-parametric MLE in linear regression with right-censored data. *J. Stat. Comput. Simul.* 73 833-848.
*[43] Yu, Q.Q (2004). A sufficient condition for admissibility of the Wilcoxon test in the classical two-sample problem. *Statistics*, 38 295-306.
*[44] Yu, Q.Q. and Wong, G.Y.C. (2004). Modified semi-parametric MLE in linear regression analysis with complete data or right-censored data. *Technometrics*, 47 34-42.
[45] Wang, X.Q. and Yu, Q.Q. (2005). Unbiasedness of the Theil-Sen estimator. *J. Nonparametr. Statist.*, 17 685-695.
*[46] Yu, S.H., Yu, Q.Q. and Wong, G.Y.C. (2005). Consistency of the generalized MLE with multivariate mixed case interval-censored data. *J. Multivariate Anal.*, 97 720-732.
*[47] Yu, Q.Q., Wong, G.Y.C. and Kong, F.H. (2006). Consistency of the semi-parametric MLE in linear regression models with interval-censored data. *Scand. J. Statist.* 33 367-378.
[48] Yu, M.G. and Yu, Q.Q. (2006). Buckley-James-type estimators in classical case-cohort studies. *International Journal of Statistics and Management Systems.* 82-103.
[49] Yu, Q.Q. (2006). A note on the proportional hazard s model with discrete data. *Statistics and Probability Letters* 77 735-739.
*[50] Wong, L.Y. and Yu, Q.Q. (2007). A bivariate interval censorship model for partnership formation. *J. Multivariate Anal.* Vol. 98 2 370-383.
*[51] Kong, F.H. and Yu, Q.Q (2007). Asymptotic distributions of the Buckley-James estimator under non-standard conditions. *Statistica Sinica* 17 341-360.

[52] Yu, Q.Q, Wong, G.Y.C. and Yu, M.G. (2007). Buckley-James-type of estimators under the classical case cohort design. *Ann. Inst. Statist. Math.*. 56 675-695.
[53] Yu, Q.Q. and Yu, M.G. (2007). Estimation with modified case cohort data under linear regression models *Journal of Applied Probability and Statistics* . 49-70.
*[54] Huang, J.L., Lee, C.S. and Yu, Q.Q. (2008). A generalized log-rank test for interval-censored failure time data via multiple imputation. *Statistics in Medicine*, 3217-3226.
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*[57] Yu, Q.Q., Qin, H. and Wang, J.P.. (2010). About the conditional masking probability models. *Statistics and Probability Letters* 80 1174-1179.
*[58] Yu, Q.Q., Chen, C.X. and Wong, G.Y.C. (2010). The GMLE based Buckley-James estimator with modified case cohort data. *Metrika* 72 3 433-464.
*[59] Yu, Q.Q., Sen, C.F., Huang, J.L. and Lee, C.S. (2011). Is each NPMLE of a continuous bivariate distribution function with singly right-censored data really inconsistent ?" *Comm. Statist. A—Theory and methods* 40 5 844-862.
[60] Yu, Q.Q., and Li, J.H. (2011). Identifiability and consistency in masking models for competing risks data. *International Journal of Statistics and Management Systems* 6, 85-105.
[61] Wang, J.P. Yu, Q.Q. and Wong, G.Y.C. (2012). The random partition masking model for interval-censored and masked competing risks data. *Journal of Statistical Computation and Simulation* 82 981-1002.
*[62] Yu, Q.Q., Wong, G.Y.C., Qin, H. and Wang, J.P.. (2012). Random partition masking model for censored and masked competing risks data. *Ann. Inst. Statist. Math.* 64 1 69-85.
*[63] Wang, J.P. and Yu, Q.Q. (2012). Consistency of the generalized MLE with interval censored and masked competing risks data. *Comm. Statist. A—Theory and methods* 41 4360-4377.
*[64] Wong, G.Y.C and Yu, Q.Q (2012). Estimation under the Lehmann regression model with interval-censored data. *Comm. Statist. — Comput. Simul.* 41 1489-1500.
[65] Yu, Q.Q, Ai, X.S. and Yu, K. (2012). Asymptotic properties of the product-limit-estimator with dependent right censoring *International Journal of Statistics and Management Systems* 7 84-104.
*[66] Yu, Q.Q., and Li, J.H. (2012). The NPMLE of the joint distribution function with right-censored and masked competing risks data. *J. Nonparametr. Statist.*, 24 753-764.
*[67] Yu, Q.Q, Hsu, Y.T. and Yu, K. (2014). A necessary and suficient condition for justifying non-parametric likelihood with censored data. *Metrika*, 8 995-1011
*[68] Yu, Q.Q, Wong, G.Y.C., Osborne, M.P., Hsu, Y.T. and Ai, X.S. (2015). The Lehmann model with time-dependent covariates. *Comm. Statist. A—Theory and methods* 20 4380-4395
[69] Yu, Q.Q. and Dong, J.Y. (2015). Generation of Pseudo Random Numbers and Estimation Under Cox Models With Time-dependent Covariates. *Journal of Statistical Computation and Simulation* 14 2727-2739.
*[70] Li, J.H. and Yu, Q.Q. (2016). A consistent NPMLE of the joint distribution function with competing risks data under the dependent right-censoring and masking model. *Lifetime Data Analysis* 22 63-99.
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*[72] Yu, Q.Q. and Hsu, Y.T. (2016). Asymptotic Normality Of The Product-Limit-Estimator Under Dependent Right Censoring *J. Nonparametr. Statist.*, 4 802-812.
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[74] Yu, Q.Q., Dong, J.Y. and Wong, G.Y.C. (2017). Marginal Distribution Plots for Proportional Hazards Models With Time-dependent Covariates or Time-varying Regression Coefficients. *Open Journal of Statistics* 7 92-111.
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[79] Yu, Q.Q., Zheng G.P. and Ding, S.H. (2018). Extensions of Slutscky's Theorem in Probability Theory. http:people.math.binghamton.edu/qyu/slut.pdf
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[81] Yu, Q.Q. and Liu, R.Q. (2018). A Consistent Test OF Independence And Goodness-of-fit In Linear Regression Models Submitted to *Metrika*
[82] Dong, J.Y. and Yu, Q.Q. (2019). Joint Distribution and Marginal Distribution Methods for Generalized Linear Model. *Comm. Statist. A—Theory and Methods* (under revision).

Book chapters.

[1] (2013) Yu, Q.Q. and Hsu, Y.T. (2013). A review of various models for interval-censored data. *Interval-censored time-to-event data, methods and applications. (edited by Ding-Geng Chen, Jianguo Sun and Karl E. Peace).* Chapman & Hall/CRC. New York.