# **PROFESSIONAL SUMMARY**

Expert statistician with 20 years of experience in data management and analytics, business leadership, and professional consulting

* 8yrs of managerial experience in leading a team of data analysts, statisticians, and software programmers
* 20yrs of consulting experience in data mining and statistical analysis
* 20yrs of programming experience in SAS, R and S-plus and other statistical software
* 6yrs of programming experience in SQL
* 25yrs of research experiences, academic and industrial
* 40 peer-reviewed publications

# **SKILLS**

* Strong leadership in team building and management
* Expert in many statistical models and tests
* Skilled in big data mining and analytics
* Excellent communication skills with clients in both academic and industrial fields
* Excellent project and time management skills
* Strong problem solving skills

## Professional Experience

**Thomas J. Stephens & Associates, Inc.** - *Senior Statistics Manager;* Richardson, TX March 2011 - Present

* Director of the Statistics Department: recruit, train, and supervise a team of data managers, statisticians and software programmers
* Oversee data management and analysis for 200-250 projects each year
* Provide on-demand consulting services for over 200 clients
* Create and implement several SAS Macros and R functions for data collecting, management, sharing and analysis
* Provide project cost estimate for company using regression model

**Fred Hutchinson Cancer Research Center** - *Manager and Statistical Research Associate*; Seattle, WAAugust 2000 – December 2010

* Manager of the Statistics Shared Resources: recruit, train, and supervise a team of statisticians
* Provide statistical consulting services for the Fred Hutchinson, the Seattle Children’s Hospital, and the University of Washington
* Key statistician for *The Childhood Cancer Survival Study*, focused on long-term effects of childhood cancer , coauthored 12 research articles
* Lead statistician for *The Early Detection Research Network*, focused on the identification of biomarkers for early cancer diagnosis, gene-network modeling, and machine learning, coauthored 13 research articles
* Lead statistician for *The Genetics and Epidemiology of Colorectal Cancer Consortium*, focused on risk modeling of genetic variants in colon cancer, developed pipelines to process big data from high throughput genome sequencing, published 5 research papers
* Analyzed large datasets of proteomics and microarray experiments for*The Women’s Health Initiative Study*

**Agricultural Experiment Station at Iowa State University -** *Statistical Consultant;* Ames, IA January 2000 – July 2000

* Provided statistical consulting services for faculties and students

**National Animal Disease Center** *- Statistical Consultant;* Ames, IA July 1999 – December 1999

* Provided statistical consulting and data analysis services for faculties

**National Institute for Physiological Sciences -** *Visiting Scholar*; Okazaki, JapanJuly 1996 – September 1997

* Studied Cl- channels in human Intestinal cells under Dr. Yasunobu Okada, Director of NIPS; published an article in *American Journal of Physiology*

**Shanghai Institute of Physiology, Chinese Academy of Sciences** *- Research Assistant;*Shanghai, ChinaSeptember 1993 – July 1996

* Studied toxins in scorpion venom, under Dr. Yonghua Ji (School of Life Sciences VP, Shanghai University); published 8 research articles

## Education

**Iowa State University** Master in Statistics May 2000

**Shanghai Institute of Physiology, Chinese Academy of Sciences** Master in Neuroscience, China June 1996

**Nanjing University** Bachelor in Biochemistry, China June 1993

## HONORS

* Youth Scientist Fellowship, Shanghai Institute of Physiology, Chinese Academy of Sciences, Shanghai, China May 1995
* Uehara Memorial Foundation Research Fellowship, National Institute for Physiological Sciences, Japan September 1996
* Research Fellowship, Japan Society for the Promotion of Science (JSPS) Foundation November 1997

## PUBLICATIONS

1. Rawlings AV, Stephens TJ, Herndon JH, Miller M, **Liu Y**, Lombard K. The effect of a vitamin A palmitate and antioxidant-containing oil-based moisturizer on photodamaged skin of several body sites. *Journal of Cosmetic Dermatology*. 2013; 12, 1-11
2. Xu C, Wang P, **Liu Y**, Zhang Y, Fan W, Upton MP, Lohavanichbutr P, Houck JR, Doody DR, Futran ND, Zhao LP, Schwartz SM, Chen C, Méndez E.. I[ntegrative genomics in combination with RNA interference identifies prognostic and functionally relevant gene targets for oral squamous cell carcinoma.](http://www.ncbi.nlm.nih.gov/pubmed/23341773) *PLoS Genet.* 2013;9(1):e1003169
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4. Gong J, Hsu L, Harrison T, King IB, Stürup S, Song X, Duggan D, **Liu Y**, Hutter C, Chanock SJ, Eaton CB, Marshall JR, Peters U. Genome-wide association study of serum selenium concentrations. *Nutrients.* 2013; 21;5(5):1706-18
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12. Dinu I, **Liu Y**, Leisenring W, Mertens AC, Neglia JP, Hammond S, Robison LL, Yasui Y. Prediction of second malignant neoplasm incidence in a large cohort of long-term survivors of childhood cancers. *Pediatr Blood Cancer* 2008; 50:1026–31.
13. Scholler N, Gross JA, Garvik B, Wells L, **Liu Y**, Loch CM, Ramirez AB, McIntosh MW, Lampe PD, and Urban N. Use of cancer-specific yeast-secreted *in vivo* biotinylated recombinant antibodies for serum biomarker discovery. *Journal of Translational Medicine* 2008; 6:41
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