

Arthur L. Dryver, Ph.D.

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CONTACT INFORMATION:

- Address: Graduate School of Business Administration, NIDA, 118 Seri Thai Road, BKK Thailand 10240
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EDUCATION:

- **Ph.D. in Statistics** (August, 1999)
 - *The Pennsylvania State University*, State College, PA, USA
 - * Dissertation Topic: Adaptive Sampling
 - * Advisor: Steven K. Thompson, Ph.D.
- **B.A. in Mathematical Sciences/Statistics** (May, 1993)
 - *Rice University*, Houston, TX, USA

EMPLOYMENT HISTORY:

- Associate Professor (Dec., 2009 to present and employed from Oct., 2003)
 - **National Institute of Development Administration**, BKK, TH
- Statistical Analyst Consultant (Jan., 2002 to Sept., 2003)
 - **Scorex an Experian Company**, CA, USA
- Project Manager (Dec., 2000 to Jan., 2002)
 - **AnaBus Inc.**, PA, USA
- Statistical Consultant (Aug., 1999 to Dec., 2000)
 - **PricewaterhouseCoopers**, DC, USA
- Instructor, Research Assistant, and Teaching Assistant (Aug., 1993 to Aug., 1999)
 - **The Pennsylvania State University**, PA, USA

CONSULTING EXPERIENCE:

- *Representative Companies*
 - General Electric, JCPenney, United States Postal Services, ...
- *Strategic Consulting - Sample Projects*
 - Data Quality Studies - Investigated client data for its accuracy and usefulness
 - Fraud Detection Models - Built statistical models in order to rank individuals applying for credit in terms of likelihood to commit fraud
 - Optimal Sample Allocation - Cut sampling costs without decreasing precision
 - Retail Equipment Comparison - Comparison of retail checkout counter equipment and design in terms of efficiency
 - E-Commerce (Return on Investment) - Compared different on-line advertising tools in terms of revenue generation
 - Targeted Marketing - Created a target list of individuals, who were expected to be the most profitable to acquire as future clients from a larger list of potential clients
- *Strategic Consulting - Duties*
 - Design: Discussed and helped put together the design of the project
 - Analysis: Multiple linear, logistic, and piecewise regression, decision tree, ANOVA, ANCOVA, simulation, Neyman allocation, post stratification, ...
 - Presentation: Helped make the presentations and presented to senior management
- *Process Improvement*
 - Benchmark model is a model created in order to obtain an estimate of expected performance should a final model be developed. Improved and coded the sampling, variable selection, and performance chart steps used in the benchmark model process
 - Developed programs that create hundreds of statistical reports in HTML to be viewed in Internet Explorer with hyperlinks. Saved numerous labor hours while producing more elegant reports for our clients
 - Developed Excel macros written in visual basic. Used macros to facilitate the importing and formatting of multiple text files into excel spreadsheets. Also used macros to create over a hundred formatted spreadsheets for each project with hyperlinks

SELECTED COURSES TAUGHT:

- National Institute of Development Administration
 - Data Mining
 - Quantitative Analysis for Business Decisions
 - Quantitative Research Methodology I
 - Quantitative Research Methodology II
 - Regression
 - Sampling Techniques
 - Sampling Theory
 - Statistical Methods for Population and Development Research I
 - Statistical Quality Control
 - Theory of Multivariate Statistics
- Dhurakij Pundit University International College
 - Advanced Statistics and Business Modeling
- Thammasat University, Chulalongkorn University, and NIDA
 - Part of an intensive course on statistics for the JDBA
- The Pennsylvania State University
 - Elementary Statistics

RESEARCH GRANTS:

- Head of various research grants at NIDA, titled:
 - An in-depth look at validating logistic regression models in relation to credit scoring
 - Ratio estimators in adaptive cluster sampling
 - The enhancement of teaching materials for applied statistics courses by combining random number generation and portable document format files via \LaTeX

SELECTED PUBLICATIONS:

- Dryver, A.L., Netharn, Urairat, and Smith, David R. (2012). [Partial systematic adaptive cluster sampling](#). *Environmetrics*** **23**(4), 306-316
- Dryver, A.L., and Nathaphan, S. (2012). [A new perspective on daily value at risk estimates](#). *International Journal of Economics and Finance* **4**(4), 114-120
- Chao, C.T., Dryver, A.L., and Chiang, T.Z. (2011). [Leveraging the Rao-Blackwell theorem to improve ratio estimators in adaptive cluster sampling](#). *Environmental and Ecological Statistics*** **18**(1), 543-568
- Dryver, A.L. (2011). [Focusing on the lower scoring data in order to improve the credit scoring model selection](#). *Advances and Applications in Statistics* **20**(1), 25-41
- Dryver, A.L. (2009). [The enhancement of teaching materials for applied statistics courses by combining random number generation and portable document format files via L^AT_EX](#). *Journal of Statistical Software*** **31**(Code Snippet 3), 1-9
- Dryver, A.L. and Boonsathorn, W. (2009, May-July). Enhancing training materials of quantitative subjects through random number generation using Microsoft Excel (article in Thai - translated title). *Competitiveness Review: NIDA Business School* **3**, 151-152
- Dryver, A.L. and Sukkasem, J. (2009). [Validating risk models with a focus on credit scoring models](#). *Journal of Statistical Computation and Simulation*** **79**(2), 181-193
- Dryver A.L. (2008) [An introduction to business statistics](#). LearnViaWeb.com
- Dryver A.L. (2008) Adaptive sampling. In *Encyclopedia of survey research methods*. (Vol. 1, pp. 4-6). Thousand Oaks, CA: Sage Publications, Inc.
- Dryver, A.L. and Chao, C.T. (2007). [Ratio estimators in adaptive cluster sampling](#). *Environmetrics*** **18**(6), 607-620
- Dryver, A.L. and Thompson, S.K. (2007). [Adaptive sampling without replacement of clusters](#). *Statistical Methodology* **4**, 35-43
- Dryver, A.L. and Thompson, S.K. (2005). [Improved unbiased estimators in adaptive cluster sampling](#). *Journal of Royal Statistical Society*** **B 67**(1), 157-166
- Dryver, A.L. and Chao, C.T. (2005). Analysis of adaptive cluster sampling utilizing standard software packages without complex programming. *KMITL Science Journal* **5**(1), 200-208
- Dryver, A.L. (2003). [Performance of adaptive cluster sampling estimators in a multivariate setting](#). *Environmental and Ecological Statistics*** **10**(1), 107-113

**ISI impact factor journal

RESEARCH AWARDS:

- Nominated for Rachapruerk Excellent Research Award at NIDA
- Papers awarded for outstanding research by the NIDA:
 - Improved unbiased estimators in adaptive cluster sampling
 - Ratio estimators in adaptive cluster sampling
 - Validating Risk Models With a Focus on Credit Scoring Models

INVITED PRESENTATIONS:

- A new way to leverage the Kolmogorov-Smirnov test statistic for comparing credit scoring models
 - Strategies and Risk Analysis International Conference, 2009
 - ISTAR and CARISMA, Bangkok, Thailand
- Improving ratio estimators in adaptive cluster sampling using the Rao-Blackwell theorem
 - Survey Research Methodology Conference, 2006
 - Center for Survey Research, Academia Sinica, Taiwan
 - Support provided by the Center for Survey Research Taipei, Taiwan.
- Data quality and preparation for model building
 - National Conference of Applied Statistics, 2006
 - National Institute of Development Administration, Thailand
- Building a fraud detection model
 - Applied Statistics Seminar: Data Mining and its Applications, 2005
 - National Institute of Development Administration, Thailand
- A more efficient estimator in adaptive cluster sampling than the standard Hansen-Hurwitz type estimator
 - Future of Statistical Theory, Practice and Education, 2004
 - Indian School of Business, India

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COMPUTER SKILLS:

- Environments
 - Linux, Mainframe, Unix, and Windows
- Statistical Software and Programming Languages
 - Basic, C++, Excel VBA, Fortran, HTML, JAVA, JCL, JSP, L^AT_EX, LINDO, MATLAB, Minitab, PAJEK, PASCAL, R, SAS, SIMAN, S-Plus, and SPSS

REFERENCES: Available upon request