

## DOMINIQUE HAUGHTON

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### CURRENT EMPLOYMENT (since September 1991)

Professor	Mathematical Sciences Department Bentley University 175 Forest St. Waltham, Massachusetts 02154 [Tel: (781) 891 2822]
Main Research Interests:	Applied Statistics, Analysis of Living Standard Surveys, Data Mining Model Selection, Mathematical Statistics
Main Teaching Areas:	Business Statistics, Applied Multivariate Statistics, Data Mining, Synchronous Statistics Distance Education, Calculus
Consulting:	Data Analysis, Database marketing, Expert witness.
Editorial:	Editor-in-chief, <i>Case Studies in Business, Industry and Government Statistics</i>

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### EDUCATION

1979-1983	M.I.T., Ph.D in Mathematics, 1983 Thesis under the direction of Professor Richard Dudley.
1978-1979	Harvard University, Special Student (Sachs scholarship).
1975-1978	Ecole Normale Supérieure, Paris and Université Paris VII. – Diplôme d'Etudes Approfondies in Mathematics (1977) – Maitrise in Mathematics (1976) – Licence in English (1977)
1972-1975	Ecole Sainte Geneviève, Versailles, France. – Admission Ecole Normale Supérieure (1975)
Before 1972	Lycée Pierre de la Ramée, Saint Quentin, France. – Baccalauréat in Mathematics and Physics (1972)

### PRIOR WORK EXPERIENCE

1991 (Jan-Aug)	Manager of Statistical Analysis, Epsilon Data Management, Burlington, MA.
1987-1991	Assistant Professor of Mathematics, University of Lowell.
Summer 1987	Assistant Professor of Mathematics, Temple University Japan.
1984-1987	Assistant Professor of Statistics, Temple University, Philadelphia.
1983-1984	Assistant Professor of Mathematics, Swarthmore College.
Summer 1983	Mathematics lecturer for Project Interphase, M.I.T.
1979-1983	Teaching Assistant, M.I.T.
Summer 1982	Lecturer, summer school. M.I.T.
Spring 1980	Taught French language tutorial, Harvard University.

## ARTICLES IN REFEREED JOURNALS

“Network analysis of U.S. air transportation network”, to appear, *Annals of Information Systems, Special Issue on Data Mining for Social Network Data* (with Guangying Hua and Yingjie Sun) (2009)

“Living standards of Vietnamese provinces: a Kohonen map”, *Case Studies in Business, Industry and Government Statistics*, **2(2)**, 109-113 (with Phong Nguyen and Irene Hudson) (2009).

“Review of Three Latent Class Cluster Analysis Packages: Latent Gold, poLCA, and MCLUST”, *The American Statistician*, **63(1)**, 81-91 (with Pascal Legend and Sam Woolford) (2009).

“Virtual worlds adoption: a research framework and empirical study”, to appear, *Online Information Review*, **33(5)**, xxx-xxx (with Guangying Hua) (2009)

“Multilevel models and inequality in Vietnam”, to appear January 2010, *Journal of Data Science*, (with Phong Nguyen) (2010)

“On the generation of random networks from a given distribution or type”, *Computational Statistics and Data Analysis*, **52(8)**, 3928-3938 (with N. Carter and C. Hadlock) (2008)

“Proactive encouragement of interdisciplinary research teams in a business school environment: strategy and results”, *Journal of Higher Education Management*, **30(2)**, 153-164 (with S. Adams, N. Carter, C. Hadlock, G. Sirbu) (2008)

“Measuring the international digital divide: an application of Kohonen self-organizing maps”, *Journal of International Knowledge and Learning*, **3(6)**, 552-575 (with J. Deichmann, A. Eshghi, S. Sayek and S. Woolford ) (2007)

“Change in connectivity in a social network over time: a Bayesian perspective”, *Connections*, **28(2)**, 17-27 (with S. Adams, N. Carter, C. Hadlock, G. Sirbu) (2007)

“Data mining CEO compensation”, in print, *Journal of Modern Applied Statistical methods*, (with S. Adams, A. Gupta and J. Leeth) (2007)

“Gender differences in CEO compensation: Evidence from the U.S.”, *Women in Management Review*, **22(3)**, 208-224 (with S. Adams, A. Gupta and J. Leeth) (2007)

“Determinants of the international digital divide: an analysis using MARS”, *Journal of Global Information Technology Management*, **9(4)**, 47-71 (with J. Deichmann, A. Eshghi, M. Masnaghetti, N. Teebagy, S. Sayek, H. Topi) (2006)

“A recipe for collaborative research”, *BizEd*, **September/October**, 30-34 (with S. Adams, N. Carter, C. Hadlock, G. Sirbu) (2006)

“A Review of three directed acyclic graphs software packages: MIM, Tetrad, and WinMine”, *The American Statistician*, **60(3)**, 272-286 (with A. Kamis, P. Scholten) (2006)

“Determinants of customer loyalty in the wireless telecommunications industry”, *Telecommunications Policy*, **31(2)**, 93-106 (with J. Deichmann, A. Eshghi, N. Teebagy, H. Topi) (2006)

“Determinants of customer churn behavior: the case of the local telephone service”, *Marketing Management Journal*, **16(2)**, 179-187 (with J. Deichmann, A. Eshghi, N. Teebagy, H. Topi) (2006)

“Shifts in living standards: the case of Vietnamese households 1992-1998”, **32(1)**, 79-101, *Philippine Journal of Development*, (with Le Thi Thanh Loan) (2005)

“Graphical tools for assessing information quality: loan application decisions”, *International Journal of Technology, Policy and Management*, **5(4)**, 330-347 (with Mary-Ann Robbert and Lynne Senne) (2005)

- “Understanding Eurasian convergence 1992-2000: application of Kohonen self-organizing maps”, *Journal of Modern Applied Statistical Methods*, **5(1)**, 72-93 (with J. Deichmann, A. Eshghi, N. Teebagy, S. Sayek, H. Topi) (2005)
- “Digital divide and consumption patterns in the U.S.: an exploratory investigation”, *Marketing Management Journal*, **15(4)**, 108-122 (with A. Eshghi, H. Topi, J. Deichmann) (2005)
- “A review of two text-mining packages: SAS Textmining and Wordstat”, *American Statistician*, **59 (1)**, 89-103 (with A. Davi, N. Nasr, G. Shah, M. Skaletsky, R. Spack) (2005)
- “Graphical and numerical descriptive analysis: exploratory tools applied to Vietnamese data”, *Journal of Statistics Education*, **12(2)**, <http://www.amstat.org/publications/jse/v12n2/haughton.html>, 89-103 (with Nguyen Phong) (2004)
- “A review of software packages for data mining”, *American Statistician*, **57 (4)**, 290-309 (with J. Deichmann, A. Eshghi, S. Sayek, N. Teebagy, H. Topi) (2003)
- “Bayesian analysis of poverty rates: the case of Vietnamese provinces”, *Journal of Modern Applied Statistical Methods*, **2(1)**, 189-194 (with Nguyen Phong) (2003)
- “A Kohonen map of Eastern European countries and former Soviet republics”, *Journal of Business Strategies*, **20(1)**, 23-44 (with J. Deichmann, A. Eshghi, S. Sayek, N. Teebagy, H. Topi) (2003)
- “Determinants of foreign direct investment in the Eurasian transition states”, *Eastern European Economics*, **41(1)**, 5-34 (with J. Deichmann, A. Eshghi, S. Sayek, N. Teebagy) (2003)
- “Asymptotic probabilities of over-estimating and under-estimating the order of a model in general regular families”, *Communications in Statistics*, **32(7)**, 1373-1404 (with C. Keribin) (2003)
- “Application of Multiple Adaptive Regression Splines (MARS) in direct response modeling”, *Journal of Interactive Marketing*, **16**, 15-27 (with J. Deichmann, A. Eshghi, S. Sayek, N. Teebagy) (2002)
- “Asymptotic normality of posterior probabilities with small errors”, *Annals of Statistics*, **30**, 1311-1344 (with R.M. Dudley) (2002)
- “Explaining the pattern of regional unemployment: the case of the Midi-Pyrénées region”, *Papers in Regional Science*, **106**, 1-20 (with Y. Aragon et al.) (2002)
- “The use of frontier estimation,” *Journal of Interactive Marketing*, **14**, 33-42 (with J. Haughton, A. Hawke-Kelly and T. Moriarty)(2000)
- “Informational complexity criteria for regression models,” *Computational Statistics and Data Analysis*, **28**, 51-76 (with H. Bozdogan)(1998)
- “Are simple tests of son preference useful? an evaluation using data from Vietnam,” *Journal of Population Economics*, **11(4)** (with Jonathan Haughton)(1998)
- “Information and other criteria in structural equation model selection: a large scale simulation study,” *Communications in Statistics; Simulation and Computation*, **26**, 1477-1516 (with Johan Oud and Robert Jansen)(1997)
- “Information criteria for multiple data sets and restricted parameters,” *Statistica Sinica*, **7** (with Richard Dudley)(1997)
- “Packages for estimating finite mixtures: a review,” *American Statistician*, **51**, 194-205 (1997)
- “Explaining child nutrition in Vietnam,” *Economic Development and Cultural Change*, **45**, 541-556 (with Jonathan Haughton) (1997)

- “Improved analysis of student evaluation of teaching scores using bootstrap and permutation methods,” *Journal of Computing in Higher Education*, **8**, 69-84 (with Louis Chin and Amir Aczel) (1996)
- “Using a mixture model to detect son preference in Vietnam,” *Journal of Biosocial Science*, **28**, 355-365 (with Jonathan Haughton) (1996)
- “Information and other criteria in structural equation model selection,” *Kwantitatieve Methoden*, **52**, 69-100 (with Johan Oud and Robert Jansen) (1996)
- “A review of some aspects of information criteria for model selection,” *Kwantitatieve Methoden*, **52**, 53-68 (1996)
- “The economic measurement and determinants of diversity: Is the for-profit less diverse than the not-for-profit in the child care industry?” *Social Indicators Research*, **36**, 201-225 (with Swati Mukerjee) (1995)
- “Son preference in Vietnam,” *Studies in Family Planning*, **26(6)**, 325-337 (with Jonathan Haughton) (1995)
- “A study of users’ perceptions on the benefits of information systems in hospitals,” *Journal of the Hospital Information and Management Systems Society*, **9(1)**, 37-46 (with Louis Chin) (1995)
- “Ross Perot and the multinomial distribution,” *Journal of Communication Research*, **21**, 408-418 (with Amir Aczel and Norman Josephy) (1994)
- “Direct marketing modeling with CART and CHAID,” *Journal of Direct Marketing*, **7(3)**, 16-26 (with Samer Oulabi) (1993)
- “High resolution inversion of the discrete Poisson and binomial transformations,” *Inverse Problems*, **9**, 39-56 (with Charles Byrne and Tom Jiang) (1993)
- “Consistency of a class of information criteria for model selection in non-linear regression,” *Communications in Statistics*, **20**, 1619-1629 (1991)
- “Information criteria and harmonic models in time series analysis,” *Journal of Statistical Computation and Simulation*, **35**, 187-207 (with Jonathan Haughton and Alan Izenman) (1990)
- “Size of the error in the choice of a model to fit data from an exponential family,” *Sankhya*, Series A, **51**, 45-58 (1989)
- “On the choice of a model to fit data from an exponential family,” *Annals of Statistics*, **16**, 342-355 (1988)

## **PROCEEDINGS AND BOOK CHAPTERS ; REFEREED CONFERENCE PAPERS**

- “An application of SAS Text Miner to the imputation of missing key player description in a customer database”, Conference : Northeast SAS User Group (NESUG), Burlington, Vermont, September 2009, (with Maria Skaletsky, Lisa Chang and James Lally)
- “A Social Network Analysis of the Institution Collaboration Network within the Information Systems Research Community”, Conference : Modèles et Apprentissage en Sciences Humaines et Sociales, Toulouse, June 2009, (with Guangying Hua, Ekin Pehlivan, Sonia Vilvovsky, Wilson Wong). In French.
- “Analyse des indicateurs de niveau de vie au Senegal: une approche SOM”, in Agriculture, Elevage et Pauvreté en Afrique de l’Ouest, eds. A. A. Mbaye, D. Roland-Holst and J. Otte, Edition CREA, Dakar, Senegal, (with A. A. Mbaye) (2007). In French.
- “An overview of socio-economic surveys in Vietnam: methods, achievements and challenges”, *Proceedings of the 2005 Statistics Canada Symposium*, (with Phong Nguyen) (2006)
- “A framework for cleaning data: bad data and mortgage decisions,” CAiSE’05, Seventeenth International Conference on Advanced Information System Engineering, (with Mary-Ann Robbert and Lynne Senne) (2005)

- “Software packages for data mining,” *Encyclopedia of Biostatistics, Second Edition*, Wiley (2004)
- “Information quality assessment,” *InterSymp 2004*, **20**, (with Mary-Ann Robbert and Lynne Senne)(2004)
- “Effect of dirty data on analysis results,” *Proceedings of the Eighth International Conference on Information Quality 2003*, (with Mary-Ann Robbert and Lynne Senne) (2003)
- “Ethnic minority development in Vietnam: A socio-economic perspective,” in print, in *The Vietnamese Household*, edited by Paul Glewwe, World Bank, (with Bob Baulch, Truong Thi Kim Chuyen and Jonathan Haughton) (2002)
- “Large analysis of ozone data based on spherical splines,” *Proceedings of the conference on Modelling Longitudinal and Spatially Correlated Data: Methods, Applications, and Future Directions*, Lecture Notes in Statistics, **122**, Springer-Verlag (with Meng Jie and Nicholas Teebagy) (1997)
- “Model selection in harmonic non-linear regression,” *Proceedings of the First US/Japan Conference on the Frontiers on Statistical Modeling: An Informational Approach*, 187-207 (with Jonathan Haughton and Alan Izenman) (1994)
- “A survey of hospital administrators: quality health care and information systems,” *Proceedings of the Twenty-third Annual Meeting of the Decision Science Institute*, **3**, 1673-1675 (with Louis Chin and Laura Carpenter) (1992)
- “Consistency of a class of information criteria for model selection in non-linear regression” (in Russian), in Proceedings of the 1990 Bernoulli/IMS World Congress, *Theory of Probability and its Applications*, **37**, 105-112 (1992)

## BOOKS AND EDITED VOLUMES

“**Statistical techniques for the analysis of living standards survey data**”, in preparation, *Springer-Verlag*, (with Jonathan Haughton).

“**Living standards during an economic boom: the case of Vietnam**”, 2001, *United Nations Development Program and General Statistical Office, Hanoi, Statistical Publishing House, Hanoi* (coedited with Jonathan Haughton and Nguyen Phong).

*Chapters authored in “Living standards during an economic boom”:*

“Shooting stars and sinking stones” (with Jonathan Haughton, Le Thi Thanh Loan and Nguyen Phong)

“Fertility decline” (with Le Van Duy, Jonathan Haughton, Do Anh Kiem and Le Dinh Ky)

“Correlates of living standards: a graphical and statistical analysis” (with Joel Deichmann, Nguyen Phong and Phung Duc Tung)

“**Health and wealth in Vietnam: a statistical analysis using the Vietnam Living Standard Survey 1992-1993**”, 1999, *Institute of Southeast Asian Studies Publications* (coedited with Jonathan Haughton, Sarah Bales, Truong Kim Thi Chuyen, Nguyen Nguyet Nga). Appeared in Vietnamese, 1999, *Political Publishing House, Hanoi*.

*Chapters authored in “The Vietnamese Household”:*

“Son Preference” (with Jonathan Haughton)

“Statistical Techniques for the Analysis of Household Data” (with Jonathan Haughton)

## PAPERS IN PREPARATION (SELECTED)

“Multilevel models and inequality in Vietnam” (with Phong Nguyen)

“Regression analysis and Box-Cox transforms: the case of Tet expenditures in Vietnam” (with Phong Nguyen)

“Work status of unskilled people in Vietnam, 1992, 1998 and 2002” (with Phong Nguyen)

“A Kohonen map of Vietnamese provinces” (with Phong Nguyen)

## EDITORIAL BOARD MEMBERSHIP, REFEREEING AND REVIEWING

Editor-in-chief *Case Studies in Business, Industry and Government Statistics*.

Member of Editorial Board *Journal of Modern Applied Statistical Methods*.

Referee for *Journal of Population Studies*, *Annals of Statistics*, *Journal of the American Statistical Association*, *Technometrics*, *Journal of Statistical Planning and Inference*, *Journal of Official Statistics*, *Communications in Statistics*.

Panel Reviewer, Instrumentation and Laboratory Improvement Program, *National Science Foundation* (Spring 1993).

Reviewer for Wiley.

*Fulbright Review Committee* member, Vietnam Program (1994 - 1997).

Reviewer for research proposals, *National Science Foundation* (1995, 1996).

## AWARDS

2002	Scholar of the Year Award, Bentley College.
Various years 1995- present	Publication Award, Bentley College.
1995	Award for Innovation in Teaching at Bentley College

## FELLOWSHIPS AND GRANTS

January 2008: Centre de Recherche en Economie Appliquée, Université Cheikh Anta Diop (Dakar, Senegal) funding for statistical advice on building models to explain the informal versus formal status of enterprises in several African countries.

Fall 2006: Invited Professor, Université Toulouse I, France.

Summer 2006: United Nations Development Program (Hanoi, Vietnam) funding for the preparation and presentation of two papers based in Vietnam living standards survey data (with Phong Nguyen).

Summer 2005: Centre de Recherche en Economie Appliquée, Université Cheikh Anta Diop (Dakar, Senegal) funding for statistical advice on data cleaning and the revision of reports.

Various Summers: Bentley College summer research grant.

2004: Bentley College Rauch grant for the preparation of a new journal *Case Studies in Business, Industry and Government Statistics* (CSBIGS).

1998-1999:	Research Affiliate, Department of Mathematics, MIT.
Summers 1997/98:	United Nations Development Program/World Bank contract for three ten-day workshops on social statistics for officials from the central and provincial statistics offices in Vietnam (with Jonathan Haughton).
1995-1997:	National Science Foundation Research in Undergraduate Institutions Grant, Model Selection for Mixtures, \$30,000 over two years.
June 1995:	Funded visiting professorship at the Université de Toulouse (France).
Summer 1995:	Bentley College summer research grant.
1994-1995:	Ford Foundation/American Council of Learned Societies Grant for the preparation of a book of research articles on the Vietnam Living Standard Survey.
Spring/summer 1994:	Ford Foundation/American Council of Learned Societies Grant for the design and implementation of a program to train and equip twelve research institutions in Vietnam to use the Vietnam Living Standards Survey, Hanoi, Vietnam.
Spring 1994:	Ford Foundation/American Council of Learned Societies Grant for advanced statistical training of faculty and government officials at the National Economics University, Hanoi, Vietnam.
1992-1993:	National Science Foundation Research Planning Grant: Complexity and Information Based Criteria for Model Selection, \$17,400 for one year.
1989-1998:	Visiting Scholar, Mathematics Department, MIT.
Summer 1990:	Institute of Mathematical Statistics/National Science Foundation Travel Grant.
Spring 1988:	Seed Fund Grant, University of Lowell.
Summer 1986:	Grant in Aid of Research, Temple University.
Summer 1985:	Summer Research Grant, Temple University, Philadelphia.
1978-1979:	Sachs scholarship for study at Harvard University.
1975-1978:	Ecole Normale Supérieure (salaried).
1979-1980:	“ “ “ “

## SELECTED INVITED TALKS

June 2008	Invited speaker, Australian Statistics Conference, Melbourne, Australia
June 2008	Invited speaker, University of South Australia, Adelaide, Australia
June 2008	Invited speaker, Australian Bureau of Statistics, Canberra, Australia
June 2008	Invited speaker, Australian National University, Canberra, Australia
June 2006	Invited Speaker, Institute of Statistical Mathematics, Tokyo, Japan
June 2006	Invited Speaker, National Institute for Agro-Environmental Sciences, Tsukuba, Japan
May 2006	Invited Panelist, Statistics Career Day for High School Students, Chestnut Hill, MA
April 2006	Invited Speaker, New England Statistics Symposium, Worcester, MA
March 2005	Invited Speaker, Salford Systems Conference, New-York
May 2003	Invited Speaker, Boston Area SAS User Group
November 2002	Invited Speaker, Worcester Polytechnic Institute
September 2002	Invited Speaker, Boston Area SAS User Group

October 2000	Invited Speaker, Boston Chapter of the American Statistical Association (with Jonathan Haughton)
February 1998	Invited Speaker, Harvard School of Public Health
March 1998	Invited Speaker, Conference on Technology in Statistical Education, Babson College
May 1997	Invited Speaker, Université de Paris-Sud, Institut National de la Recherche Agronomique, Paris, France
Summer 1997	Invited Speaker, Université de Toulouse, France
May 1996	Invited Speaker, Les XXV III <sup>e</sup> Journées de Statistique (28th statistical conference), Université Laval, Québec
Fall 1995	Invited Speaker, MIT
Summer 1995	Invited Speaker, Université de Toulouse, France
Spring 1995	Invited Speaker, University of Nijmegen, The Netherlands.
Spring 1993	Invited Speaker, Carnegie Mellon University
Spring 1993	MIT, at Stochastic Seminar
Fall 1992	Invited Speaker, University of Connecticut
Summer 1992	Invited Lecturer, Yunnan University, Kunming, P.R.C.
Summer 1992	Invited Lecturer, State Planning Committee, Hanoi, Vietnam
Spring 1992	Invited Speaker, First US/Japan Conference on the Frontiers of Statistical Modeling: An Informational Approach; University of Tennessee
Fall 1990	Harvard Statistics Colloquium
Spring 1990	Boston University Mathematics Department
Spring 1988	MIT, at Stochastic Seminar
Summer 1987	Institute of Statistical Mathematics, Tokyo
Spring 1987	MIT, at Stochastic Seminar
Spring 1987	University of Maryland Baltimore County, Mathematics Dept.
Spring 1987	University of Virginia, Mathematics Dept.

#### **PH.D. THESIS COMMITTEES**

Guangying Hua, Bentley (current), chair  
 Maria Skaletsky, Bentley (current), chair  
 Mayokun Soremekun, Bentley (current), chair  
 Guillaume Weisang, Bentley (current), chair  
 Phong Nguyen, University of South Australia and General Statistics Office, Hanoi (current)  
 Sebastien Markley, Université Toulouse I (2008)  
 Gerald Dorfman, Statistics Department, Temple University (1987).  
 Weiwen Miao, Mathematics Department, Tufts University (1995).  
 Donna Pauler, Statistics Department, Carnegie-Mellon University (1996).  
 Christine Keribin, Mathematics Department, Université d'Evry-Val-de-Marne (1999).

#### **OTHER SCHOLARLY CONTRIBUTIONS**

Translation from Russian into English of the book *Probability Theory* by Y. Sinai, Springer Verlag (1992)

Co-Editor, *Proceedings of the First US/Japan Conference on the Frontiers of Statistical Modeling* (with H.Bozdogan, editor, and A.K. Gupta, G. Kitagawa, T. Ozaki, K. Tanabe, and S.C. Sclove, co-editors) (1994)

#### **INFORMATION TECHNOLOGY**

Various programs and systems including Windows, DOS, Matlab, SAS, SPSS, Stata, R, Maxyma, MS Office etc.

Extensive experience with symposium software Centra.



## **SELECTED OTHER WORK EXPERIENCE**

Summer 1995 Gave a series of training sessions on statistics with Excel in the Republic of Moldova (financed by the Soros Foundation).

Summer 1989 Gave an in-house course on Probability and Statistics, Teradyne Corporation, Boston.

1982-1990 Technical translation, Russian to English, for Theory of Probability and its Applications (S.I.A.M., Philadelphia), Plenum (N.Y.), Birkhauser (Cambridge), A.M.S. (Providence) and Springer Verlag (Heidelberg). Also monograph on Probability Theory by Sinai.

1980-1983 Resident tutor, Burton House, M.I.T.

1979-1980 Resident tutor, Kirkland House, Harvard University

Summer 1980 Slavic department, Widener Library, Harvard University

Fall 1979 Translation, English to French, for Harvard Institute for International Development.

## **CONFERENCES ORGANIZED**

Twenty-second New England Statistics Symposium, Suffolk University, Spring 2008.

Probability and Statistics Day, Temple University, Spring 1987.

Fourth New England Statistics Symposium, University of Lowell, Spring 1990.

Sixth New England Statistics Symposium, Bentley College, Spring 1992.

Seminar on research papers using the Vietnam Living Standards Survey 1998-1999, November 1999, Hanoi, Vietnam (with Nguyen Phong).

## **MEMBERSHIPS**

American Statistical Association  
Boston Chapter of the American Statistical Association: president.  
Elected member of the International Statistical Institute  
Institute of Mathematical Statistics

## **OTHER QUALIFICATIONS**

Passed Actuarial Examinations 100, 110, 120, 121 and 135.

## **LANGUAGES**

French (native language); English (completely fluent); Russian (competent), Vietnamese (competent).

## **PERSONAL**

Born May 4, 1955 in Neuilly sur Seine, France; U.S. citizen.

## **CURRENT INTERESTS**

Travel.  
Vietnamese language and culture.