

# Curriculum Vitae

## VANEETA KAUR GROVER

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### PROFESSIONAL CERTIFICATIONS

- Quality Auditor (American Society for Quality, ASQ), 2004.
- Quality Engineer (ASQ), 2003.
- Quality Improvement Associate (ASQ), 2002.

### EDUCATIONAL BACKGROUND

**Ph.D. Student** (Sept 2005 – present)

Department of Mathematics & Statistics, Dalhousie University, Halifax, NS, Canada

**M.Sc. Statistics** (Sep 1996 – Aug 1998)

McMaster University, Hamilton, ON, Canada

**Thesis:** “Analysis of two server polling system with overlapping skills and limited service”.

**M.A. Applied Operations Research** (July 1994 – May 1996)

University of Delhi, New Delhi, India

**Gold Medalist**

**Project** “The Development of Indian Telecom Sector: The Gap Between demand And Supply and It's Financial Implications”.

**B.A. (Honors) Mathematics** (July 1991 – May 1994)

Jesus and Mary College, University of Delhi, New Delhi, India

### PROFESSIONAL EXPERIENCE

- **Consultant:** Working as a consultant with the Department of Mathematics and Statistics consulting Unit (Sep 2005 – present).
- **Teaching Assistant:** TA at Dalhousie University in the Department of Mathematics and Statistics (Sep 2005 – present). Responsibilities include:
  - Lead labs for Statistics 1<sup>st</sup> year course
  - Learning Center - Help students with their problems
- **Lecturer** at the Department of Community Health & Epidemiology, College of Medicine, University of Saskatoon, Saskatchewan, SK (Sep 2003 – Aug 2005). Responsibilities included:
  - Teach Biostatistics to graduate students in the department,
  - Statistical support to clinicians, doctors, nurses and residents in their research at the College of Medicine,
  - Provided Statistical support and SAS training at Health Quality Council (Sep 2003 – Aug 2004),
  - Professional Research Associate at Institute of Agricultural Rural and Environmental Health.
- **Consultant** with Saskatoon Community Clinic, Saskatoon, SK. Planned questionnaire and designed survey to collect the data for patient satisfaction. The survey was carried out twice, once in early

2004 and again in 2005. Analysed, described and compared the collected data at both time points and compiled report as well.

- **Data Analysis:** Patients profiling of chronic pain patients, McMaster University, Hamilton (2003 - present).
- Teaching Assistant (TA) at McMaster University. (Jan 2003 – April 2003). **TA coordinator** as well as TA for the Introductory Computer-Aided Statistics. I was also responsible for **monitoring discussion on WebCT**.
- **Designed and developed system and programs in Delphi 5** (object oriented) for conducting experiments on Emission Trading at the Department of Economics, McMaster University (2001-02).
- Designed a **Market Survey questionnaire** for a study to improve the effectiveness of Business Improvement Areas in The New City of Hamilton (2001).
- **Mentoring** (Oct 2000 – Aug 2003): I gave personal tuition to high school, undergraduate and MBA students in Mathematics and Statistics.
- **Developed Data base** for Fisher Controls Inc. in Microsoft Access to support their Quality Assurance Program. The database improved the management of the Fisher's Quality Program. It also helped in better identifying the sources of quality problems (2000).
- Did **Data analysis of primary data** for a survey conducted by the Faculty of Health Sciences, McMaster University. The study was conducted to test if the computer based self-answer question system was statistically same as the system of nurse questioning the blood donors (1998).
- **Teaching Assistant: TA and Grader** at McMaster University in the department of Mathematics and Statistics and MGD School of Business (Sep 1996 – Oct 2001).

## AWARDS

- Received **Faculty Research Grant Scholarship** (\$15,253), Dalhousie University, 2004 – 09 (institutional academic award).
- Awarded **Teaching Assistant** at Dalhousie University 2005 – 2006 (institutional academic award).
- **Invited** by the Rotary International President Bhichai Rattakul to facilitate a workshop at the 2003 Rotaract Preconvention Meeting (Annual International Conference) on 30-31 May 2003 in Brisbane, Australia (Recognised Internationally for leadership).
- **Nominated** (one of the three Rotaractors from all over the world) to participate in the conference on “Ending the Tragedy of Landmines through Innovation and Cooperation”, Sept 30-Oct 1 2002 in Seattle, USA. (Recognised Internationally for leadership).
- Received **School of Graduate Studies Scholarship** (\$7,500) McMaster University, 1998 – 2001 (institutional academic award).
- Received **School of Graduate Studies Scholarship** (\$6,500) McMaster University, 1997 – 1998 (institutional academic award).
- Received **School of Graduate Studies Scholarship** (\$3,500) McMaster University, 1996 – 1997 (institutional academic award).
- Awarded **Teaching Assistant** at McMaster University each year from 1996 – 2001 (institutional academic award).
- Awarded **Srimati Sivakamamma Radhakrishnan (Gold) Medal, 1996** for obtaining the highest grades in MA Examination among women, 1996 at the University of Delhi, Delhi, India (institutional academic award).
- Best Hindi Debater of School, Wynberg Allen School Mussoorie, 1989 (Institutional Communication)

## RESEARCH GRANTS

- Co-investigator in: Can Obstructive Sleep Apnea (OSA) be diagnosed and treated at home? Randomized trial of home vs. in-lab diagnosis and treatment of OSA. (Principal Investigator: Robert P. Skomro MD, FRCPC, D. ABSM), Ralston Brothers Medical Research Fund, Kelsy Trail health Region (\$30,000), 2004 - 05.

## PUBLICATIONS

### • Books edited:

1. "Recovering Energy from Waste", Editors: Velma I Grover, **Vaneeta Kaur Grover**, William Hogland, Science Publishers Inc., U.S.A., October 2002, 348 Pages.

### • Chapters in Books

1. "Introduction to Waste Management in Asia" **Vaneeta Kaur Grover** and Velma I Grover, Solid Waste Management, Eds. Velma I Grover, B.K. Guha, William Hogland, Stuart G. McRae, Oxford & IBH Publishing Co. Pvt. Ltd, India and A. A. Balkema, The Netherlands, 2000, pages 103-112.
2. "Introduction to Waste Management in Europe" Velma I Grover and **Vaneeta Kaur Grover**, Solid Waste Management, Eds. Velma I Grover, B.K. Guha, William Hogland, Stuart G. McRae, Oxford & IBH Publishing Co. Pvt. Ltd, India and A. A. Balkema, The Netherlands, 2000, pages 237-246.

### • Papers in Refereed Journals

1. "Evaluation And Treatment Of Osteoporosis In Patients With A Fragility Hip Fracture", Endocrine Practice, Hasnain M. Khandwala, Nathan Kolla and **Vaneeta Grover**, accepted July 5 2005.
2. "Easy Method of Assessing Volume of Prostate Adenocarcinoma from Estimated Tumor Area: Using Prostate Tissue Density to Bridge Gap Between Percentage Involvement and Tumor Volume", Goran Torlakovic, **Vaneeta K. Grover**, Emina Torlakovic, Croat Med J 46(3), 2005, 423-428
3. "Limitations of Glomerular Filtration Rate Equations In The Renal Transplant Patient", Raju, D.L. , **Grover, V.K.**, Ahmed Shoker, Clinical Transplantation, 19, 2005, 259-268
4. "The Diagnosis of Pervasive Developmental Disorders: A Retrospective Analysis", Deobald, Raymond G, Aizeddin A. Mhanni, **Vaneeta K. Grover**, Edmond G. Lemire, College Newsletter, A publication of the College of Physicians & Surgeons of Saskatchewan, 20(59), Winter 2004, 11-12
5. "Can error in GFR formulas explain their poor performance in transplant patients?" Raju, D.L., **Grover, V.K.**, Shoker, A., Letters to editor, Kidney International, 65 (6), 2004, 2445-2446.
6. "Software Reliability Growth Models: A Historical Perspective", **V.K. Grover**, P.K. Kapur and P.K. Jha, 1996., The Journal of Decision and Mathematika Sciences, 1 37- 64

### • Papers in Non-Refereed Journals

1. "Globalization and Environmental Indicators", V.I. Grover, V.K. Grover, Warmer Bulletin, (Journal for Sustainable waste management) U.K. 82, 2002.
2. "Public participation in Solid Waste Management: A Thai experience", V.I. Grover, Pannomad Sitakun, **V.K. Grover**, Warmer Bulletin U.K., 80, 2001.

### • Papers Published in Full in the Conference Proceedings

1. "Sustainable and Clean Technologies for Transportation for Cities in Transition Economies" V.I. Grover, **V.K. Grover**, NATO ARW "From Transitional Economy to Sustainable Development" October 2001.
2. "Solid Waste Management for Cities in Transition Economies" V.I. Grover, **V.K. Grover**, NATO ARW "From Transitional Economy to Sustainable Development" October 2001 .

- **Papers communicated in refereed journals**

1. Liliane Chénard, Ambikaipakan Senthilsevan, James Dosman, **Vaneeta K Grover**, Shelley Kirychuk, Josh Lawson, Ernerst M Barber, Chuck Rhodes, Tom S Hurst. Baseline and interim lung function predicts healthy worker survival in swine farmers. Submitted to CHEST, on August 26<sup>th</sup> 2005, manuscript number: CHEST-05-2238, 21 pages.
2. McDuffie, H., Pahwa, P., **Grover, V.K.** Pulmonary Function and Risk of Cancer: An Inverse Relationship? Submitted to Cancer Epidemiology Biomarkers & Prevention in May 2005, manuscript number: EPI-05-0380, 37 pages.
3. Thoma, B., **Grover, V.K.**, Shoker, A. Prevalence of Weight Gain in Patients with Better Renal Transplant Function. Submitted to Clinical Nephrology on July 13<sup>th</sup> 2005, manuscript number: CN5335, 14 pages.

## **PRESENTATIONS**

- **Oral Presentations**

1. “My experiences working as a Biostatistician”, AARMS workshop on Robust and Computationally Intensive Statistical Models, 2005 APICS meeting at Acadia.
2. “Cessation of Swine Barn Exposure Results in Reduction in Yearly Lung Function Decline in Farmers” presented at the Fifth Canadian Rural Health Research Society Conference, Sudbury Ontario, October 2004, **Vaneeta K. Grover**, A Senthilsevan, James A. Dosman, Liliane Chénard, Nathalie Delmaire, Shelley Kirychuk, Ernie Barber, Chuck Rhodes, Sandra Halliday.
3. “Case Study: Neighborhood Factors and Children: Hierarchical Linear Models and Small Area Statistics” presented at the 31st Annual Meeting of the Statistical Society of Canada, June 2003.
4. Summary and Results of the three-day Rotaract Conference on Youth, Leadership & Sustainable Development presented at the Youth session of Shared Water Conference, Hamilton, June 2002.
5. “Activities of Hamilton-McMaster Rotaract Club”, United States, Canada, & Caribbean 2002 Rotaract Conference, Austin, Texas, 2002.
6. “Software Reliability Growth Models: A Historical Perspective” at the 84<sup>th</sup> Indian Science Congress, held at Delhi, India in January 1997.
7. “The Future Scenario of Telecom Services in India” at the XXVIII Annual Convention of the Operational Research Society of India (ORSI) held at New Delhi, India in December 1995.
8. “Simplex Method” at Intra College paper reading competition at Jesus and Mary College, New Delhi, India, 1994. *I won Second Prize.*
9. “Limits and Continuity” at Inter College Paper reading competition at Maitrey College, New Delhi, India, 1994. *I was awarded Second Prize.*

- **Poster Presentations**

1. “Increased wheeze is associated with Toll-like 4 receptor (TLR4) 299 and 399 polymorphism in women not in men”, Donna Rennie, Jim Dosman, David Schwartz, **Vaneeta Kaur Grover**, Helen McDuffie, Punam Pahwa, Lalita Bharadwaj, Yue Chen, at the Sixth Conference of the Canadian Rural Health Research Society, Quebec City, October 2005.
2. “Baseline Lung Function predicts Healthy Worker Survival in Swine Farmers in 13 year Follow Up”, Liliane Chenard, Ambikaipakan Senthilsevan, James Dosman, **Vaneeta K Grover**, Shelley Kirychuk, Josh Lawson, Ernerst M Barber, Chuck Rhodes, Tom S Hurst at the Sixth Conference of the Canadian Rural Health Research Society, Quebec City, October 2005. (Accepted for Oral presentation)
3. “Evaluation and treatment for Osteoporosis after Fragility Hip Fracture”, Nathan Kolla, **V.K.Grover**, Hasnain M. Khandwala at the Canadian Diabetes Association/Canadian Society of

Endocrinology and metabolism Annual Meeting, Edmonton, October, 2005. (Accepted for Oral presentation)

4. "MMPI-2 Profile Clusters in Patients with Chronic Pain", E. Hapidou, **V.K. Grover**, at the 11th World Congress on Pain of the International Association for the Study of Pain, Australia, August 21-26, 2005
5. "Is Cue Based Feeding in the Best Interest of Premature Infants?", Barbara Puckett, Dr. Sanakran, **Vaneeta K Grover**, nursing conference taking place in Washington DC in June, 2005
6. "Effect of work cessation on lung function in exposed swine farmers: results of a fourteen-year follow-up", L.Chenard, **V.K. Grover**, A Senthilsevan, N. Delmaire, S.P. Kirychuk, E.M. Barber, C.S. Rhodes, S.L. Halliday and J. A. Dosman at American Thoracic Society 2005 - San Diego International Conference, May 2005
7. "Pulmonary function and risk of cancer: an inverse relationship?", McDuffie, H., Pahwa, P., **Grover, V.K.**, at 2005 AACR Annual Meeting in Anaheim, California, April 2005
8. "Pulmonary function and risk of cancer: an inverse relationship?", McDuffie, H., Pahwa, P., **Grover, V.K.**, at CARWH Conference 2005, Vancouver, British Columbia, May 2005.
9. "Pulmonary function and risk of cancer: an inverse relationship?", McDuffie, H., Pahwa, P., **Grover, V.K.**, at 4<sup>th</sup> Annual Saskatchewan Cancer Research Day, Saskatoon, 2004
10. "Effect of Work Cessation on Lung Function in Exposed Swine Farmers: Results of a Fourteen-Year Follow-Up", Liliane Chénard, A Senthilsevan, James A. Dosman, **Vaneeta K. Grover**, Nathalie Delmaire, Shelley Kirychuk, Ernie Barber, Chuck Rhodes, Sandra Halliday presented at the Fifth Canadian Rural Health Research Society Conference, Sudbury Ontario, 2004.
11. "Impact of a physical activity intervention on health status in older adults", K.L. Fisher<sup>1</sup>, B.G. Lindstrom<sup>1</sup>, K.E. Chad, N.L. Ashworth, E.L. Harrison, B.A. Reeder, S. Schultz, M.S. Sheppard, **V.K. Grover**, at the Canadian Society for Exercise Physiology conference, 2004.
12. "Effectiveness Of Home-Based Vs. Class-Based Exercise In Older Adults", B.G. Lindstrom<sup>1</sup>, K.L. Fisher, K.E. Chad, N.L. Ashworth, E.L. Harrison, B.A. Reeder, S. Schultz, M.S. Sheppard, **V.K. Grover**, at the Canadian Society for Exercise Physiology conference, 2004.
13. "Effects of physical activity programs (class- vs. community-based) on blood pressure and levels of physical activity in hypertensive older adults", International Society for Aging and Physical Activity's 6th World Congress on Aging and Physical Activity: From Research to Action for an Aging Society Kamencic, E., Reeder, B., Chad K.E., Harrison, E.L., Ashworth, N.L., Sheppard, M.S., Schultz, S., Fisher, K.L., Lindstrom B.G., **Grover, V.K.** London, Ontario, Canada, August 2004.
14. "Predictive Performance of Creatinine Clearance Equations in Renal Transplant Patients". D. Raju, **V. K. Grover**, R. Sanad, A. Shoker, Canadian Society of Transplantation, 2003.
15. "Limitations of Creatinine Clearance Equations in Renal Transplant Patients." D. Raju, **V.K. Grover**, A. Shoker, American Society of Transplantation, 2003.
16. "Accuracy of Intraocular pressure measurement in vitrectomized gas containing eyes" Renatta Varma, **Vaneeta K Grover**, Murray J Erasmus, 2003.

#### • Invited Talks

1. "An introduction to six sigma", Department of Applied Operational Research, University of Delhi, March 2005.

#### • Seminar Presentations

1. "Injuries in rural and urban areas in prairies and rest of Canada", **Vaneeta K Grover**, Punam Pahwa, informal session after the Hands-on Workshop on the Bootstrap Method Used for Variance Estimation in Health Surveys (NPHS & CCHS), Saskatoon May 04, 2005.

2. “Cessation of Swine Barn Exposure Results in Reduction in Yearly Lung Function Decline in Farmers”, Department of Community Health & Epidemiology, 2004.
3. “The mathematical/statistical modeling of rare events in patient safety”, Health Quality Council, 2004.
4. “Hierarchical Linear Modelling, an introduction”, Health Quality Council, 2003.
5. “Impact of Family & Neighbourhood on Child’s Learning: Using Hierarchical Linear Model”, I.ARE.H., 2003.

## **PROFESSIONAL DEVELOPMENT ACTIVITIES**

### **Related To Research:**

- Took courses from Skills Enhancement for Health Surveillance Program, Health Canada on:
  - Basic Epidemiological Concepts
  - Descriptive Epidemiological Methods
- Took **graduate level courses** at McMaster University, Summer 2003 on:
  - Health Quality Improvement (the Department of Clinical Epidemiology & Biostatistics)
  - Longitudinal Data Analysis (the Department of Clinical Epidemiology & Biostatistics)
  - Multivariate Analysis (the Department of Mathematics & Statistics)
  - Survey Sampling (the Department of Mathematics & Statistics)
  - Multivariate Statistical Methods for Process Analysis and Monitoring (the Department of Chemical Engineering)
- Attended **workshops on:**
  - **Measuring and modelling space time processes for environment risk assessment** by Jim Zidek and Nhu Le, at the 30th Annual Meeting of the Statistical Society of Canada 2005.
  - **Bootstrap Method Used for Variance Estimation in Health Surveys** (NPHS & CCHS), (Hands-on) by Francois Brisebois from Statistics Canada, Saskatoon May 03, 2005
  - **Mixed-Effects Models for Longitudinal Data**, by Dr. Edward F. Vonesh Jr. at the 31st Annual Meeting of the Statistical Society of Canada, June 2003.
  - **Handling Missing Data** at the 30th Annual Meeting of the Statistical Society of Canada, 2002.
- Attended several **conferences and Seminars** on Quality, Statistics, Operations Research and Simulation.

### **Related To Teaching:**

- Attended session on Active Learning at College of Medicine, University of Saskatchewan, 2004
- Took a **graduate level course** on “**Principles and Practices of University Teaching**”, McMaster University, Summer 2003.
- Attended **workshops on:**
  - **Using Self Directed Learning: Inquiry and Problem-Based Learning** at the TA Day 1999, McMaster University.
  - **How to Manage Conflict, Anger and Emotion** at the TA Day 1999, McMaster University.
  - **The Impostor Syndrome** at the TA Day 1999, McMaster University.
  - **Dealing with Difficult Situations** at the TA Day 1997, McMaster University.
  - **Teaching in Different Culture** at the TA Day 1996, McMaster University.
  - **Stimulating Discussion in Tutorials** at the TA Day 1996, McMaster University.

### **Other:**

- Attended a **workshop on Change Management**, Quality Quest ASQ Kitchener section Annual Conference, February, 2003.
- Participated in a three day **Political Leadership Training**, Coloring the City, Hamilton, 2002-03.

- Attended a **workshop on Project Management** ASQ Toronto section Annual Conference, 2000.

## PROFESSIONAL MEMBERSHIP

- Statistical Society of Canada

## VOLUNTEER WORK

- At **Dalhousie University**:
  - Presented “Probable Fun - a Look at Probability” at Math Circles, November 1<sup>st</sup> 2005.
- At **University of Saskatchewan**:
  - Committee – 20 years celebration, I.ARE.H, 2004-05
  - **University of Saskatchewan Faculty Association executive**, 2003 - 2006
    - ♦ Committee On Women’s Issues, 2003
    - ♦ Faculty Association Representative for the Department, 2003 - 2005
  - Volunteered to interview Medical students for 2005.
  - Salary review Committee, Department of Community Health & Epidemiology, University of Saskatchewan, 2004
  - Committee for Weekly seminar, I.ARE.H, 2003-04
  - **MedShow**, 2003, College of Medicine, University of Saskatchewan
- **Volunteer for Community Volunteer Income Tax Program** with the Canada Customs and Revenue Agency, 2002 – present.
- **Member of Organising Committee** for the Statistical Society of Canada’s 33<sup>rd</sup> Annual meeting at University of Saskatchewan, June 2005.
- **Member** of Rotary Club of Nutana, 2003 – Aug 2005.
- Elected as Vice President of India-Canada Cultural Association 2004. Also served as editor of the newsletter as well as the webmaster of the association.
- **Internet Liaison** (Web master), American Society for Quality, Saskatchewan chapter 2004-2005.
- **Member of the Patient Advisory Committee** at the West End Health Center, 2003.
- **Volunteer Coordinator** for the Statistical Society of Canada’s 30<sup>th</sup> Annual meeting at McMaster University, May 2002.
- **Developed and maintained websites for:**
  - United Nations Friends in Rotary
  - United States, Canada, and Caribbean Conference 2002, at St. Edwards University, Austin, Texas, U.S.A.
  - The Rotary Club of Hamilton A.M.
  - Rotary Zone 22 and Zone 27 Rotaract Conference on "Youth, Leadership & Sustainable Development", Hamilton, ON, Canada
  - Hamilton-McMaster Rotaract Club
  - Environment Fellowship of Rotarians
- **Director at Large**, Special Projects on Board of MGD School of Business Alumni Association, McMaster University, 2001 - 02.
- **Liaison officer** for McMaster University and Member Executive Committee of the Toronto chapter of the Canadian Operations Research Society, 1999 - 2001.
- **Hamilton-McMaster Rotaract Club:**
  - **Elected as member** of the Steering Committee for the formation of Multi District Information Organization (MDIO) of the United States Canada Caribbean region of Rotaract, America Canada Caribbean Together (ACCT), July 2002 – June 2003.
  - Elected as the **Canadian Representative** for the MDIO, July 2002 – June 2003.

- **Elected as Secretary** of the Hamilton-McMaster Rotaract Club, July 2002 – June 2003.
- **Elected as President** of the Hamilton-McMaster Rotaract Club, July 2001 – June 2002.
- **Sponsorship and Promotions Chair** of the Rotary Zone 22 and 27 Rotaract conference on “Youth, Leadership and Sustainable Development”, May 2002, Hamilton. I also managed budget and logistics of the conference.
- **Organised** a fundraiser: “Multi-Cultural Entertainment Evening” on November 18<sup>th</sup> 2001.
- **Volunteered** at a number of **Fund Raisers and Community Service Events** of various Rotary Clubs in the Hamilton area, 2000 - 2002.