

THE UNIVERSITY OF BRITISH COLUMBIA
Curriculum Vitae for Faculty Members

Date: Oct 2017 **Initials:** J.V.Z.

1. **SURNAME:** ZIDEK **FIRST NAME:** James
MIDDLE NAME(S): Victor
2. **DEPARTMENT/SCHOOL:** Statistics
3. **FACULTY:** Science
4. **PRESENT RANK:** Professor Emeritus **SINCE:** January 2005
5. **POST-SECONDARY EDUCATION**

University	Degree	Subject Area	Dates
University of Alberta	B.Sc.	Mathematics (Hons)	June 1961
University of Alberta	M.Sc.	Statistics	Sept. 1963
Stanford University	Ph.D.	Statistics	Sept. 1967

Special Professional Qualifications

6. **EMPLOYMENT RECORD**

(a) *Prior to coming to UBC*

University	Rank or Title	Dates
University of Alberta	Sessional Lecturer	1962-1963

(b) *At UBC*

Rank or Title	Dates
Assistant Professor	July, 1967
Associate Professor	July, 1970
Professor	July, 1976 – December, 2004
Professor Emeritus	January, 2005 -
Head of Statistics	1984-1989, 1997-2002

(c) *Date of granting of tenure at U.B.C.:* July 1, 1972

7. LEAVES OF ABSENCE

Company or Organization at which Leave was taken	Type of Leave	Dates
University College London	Study, paid	1971-72
CSIRO/Imperial College	Study, paid	1975-76
CSIR/Imperial College	Study, paid	1982-83
University of Washington	Unpaid leave	1983-84
University of Bath	Study, paid	1989-90
National University of Singapore/University of Kent	Study, paid	1995-96
U of Bath/Statistical & Applied Mathematical Sciences Institute	Administrative leave	2002-03

8. TEACHING

(a) *Areas of special interest and accomplishments*

(b) *Courses Taught at UBC*

Session	Course Number	Scheduled Hours	Class Size	Hours Taught			
				Lectures	Tutorials	Labs	Other
94/95	450	3	14	3	1	3	
	534	3	4	3			
	335	3	41	3			
96/97	203	3	90	3	1		
	550	3	4	3			
	306	3	25	3			
97/98	547	3	5	3			
	461	3	11	3			
98/99	550	3	5	3			
	302	3	69	3			
99/00	547	3	4	4			
	450	3	19	3			
	450	3	17	3			
01/02	307	2	27				
	308	1	21			1	
02/03	404	3	66			1	
	547	3	5				
	543	3	9				

(c) *Graduate Students Supervised*

Student	Program Type	Year		Principal Supervisor	Co-Supervisor(s)
		Start	Finish		
R Hauschildt	M.Sc.	1969		J. V. Zidek	
R Humphries	M.Sc.	1971		J.V. Zidek	
J Brewster	Ph.D.	1972		J.V. Zidek	
N. Reid	M.Sc.	1976		J.V. Zidek	
W. Samaradasa	Ph.D.	1976		J.V. Zidek	
C. Tsui	Ph.D.	1978		J.V. Zidek	
C. McKeeman	Ph.D.	1978		J.V. Zidek	
C. Genest	Ph.D.	1982		J.V. Zidek	
S. Wu	M.Sc.	1988		J.V. Zidek	
I. Yee	M.Sc.	1988		J.V. Zidek	
Saulati	M.Sc.	1992		J.V. Zidek	N. Heckman
A. Thorne	M.Sc.	1993		J.V. Zidek	

D. Chew	M.Sc.		1993	J.V. Zidek	A. Coldman
F. Hu	Ph.D.		1994	J.V. Zidek	
W. Sun	Ph.D.		1994	J.V. Zidek	
C. Duddek	M.Sc.		1994	J.V. Zidek	
G. Chiu	M.Sc.		1996	J.V. Zidek	N.D. Le
R. St. Aubin	M.Sc.		1998	J.V. Zidek	N.Heckman
Kathy Li	M.Sc.		1998	J.V. Zidek	
Dieter Ayers	M.Sc.		1999	J.V. Zidek	
X. Wang	Ph.D.		2002	J.V. Zidek	
J Asselin	M.Sc.		2001	J.V. Zidek	
Eugenia Yu	M.Sc.		2002	M Schulzer	J.V. Zidek
Audrey Fu	M.Sc.		2002	J.V. Zidek	N.D. Le
Yiping Dou	Ph.D.	2004	2008	J.V. Zidek	N.D. Le, C. van Eeden
Zhong Liu	Ph.D.	2004	2007	J.V. Zidek	N.D. Le
J-F Plante	Ph.D.	2004	2007	J.V. Zidek	
Reza Hosseini	Ph.D.	2006	2009	J.V. Zidek	N.D. Le
Stoitchko Kalenderski	Ph.D.	2007	2009	J.V. Zidek	Douw Steyn
Yan Cheng	MSc	2008	2009	J.V. Zidek	Lang Wu
Song Cai	MSc	2008	2009	J.V. Zidek	Nathaniel Newlands
Luke Bornn	PhD	2008	2012	J.V. Zidek	A. Doucet
Yiping Dou	PDF	2008	2009	J.V. Zidek	
Tara Cai	PhD	2009	2015	J.V. Zidek	Will Welch
Song Cai	PhD	2009	2015	Jiahua Chen	J.V. Zidek
Camila Casquilho-Resende	PhD	2012	2016	J.V. Zidek	Nhu D. Le
Yang Liu	PhD	2013	2017	J.V. Zidek	
Henry Chen	Msc	2016	-	J.V. Zidek	
Seong-Hwan Jun	PhD	2014		A. Bouchard-Cote	J.V. Zidek
Harry Lee	Msc	2016	-	J.V. Zidek	
Adrian Jones	Msc	2016	-	J.V. Zidek	
Wayne Wang	MSc	2016	-	J.V. Zidek	

(d) *Continuing Education activities*

- 2007 Organizer and lecturer in the PIMS International Graduate Institute's Summer School on Modeling environmental space – time processes. U Washington, Jul
- 2008 Co-organizer PIMS International Graduate Institute's Summer School on Statistics and Climate Modeling. National Center for Atmospheric Research, Boulder, CO, Aug

(e) *Visiting Lecturer (indicate university/organization and dates)*

- 1972-73 Lecturer in Amer Statistical Association's Visiting Lecturer Program
- 1975 Lecturer Program, SIAM
- 1976 Consulting Workshop, Australian National University

9. SCHOLARLY AND PROFESSIONAL ACTIVITIES

(a) *Areas of special interest and accomplishments*

statistical decision analysis; environmetrics; environmental health

(b) Research or equivalent grants (indicate under COMP whether grants were obtained competitively (C) or non-competitively (NC))

Granting Agency	Subject	COMP	\$ Per Year	Year	Principal Investigator	Co-Investigator(s)
NRC	Estimator	C	0.96k	68/70	JVZ	
NRC	Admissibility Scale	C	1.78k	69/70	JVZ	
NRC	Paired admissibility	C	1.78k	70/71	JVZ	
NRC	Comparisons Testimation	C	5.50k	71/72	JVZ	
NRC	Equivariant Estimators	C	5.28k	72/75	JVZ	
NSERC	Estimating intensities	C	6.00k	76/77	JVZ	
NSERC	Minimax Estimation	C	11.54k	78/79	JVZ	
NSERC	G-Bayes Theory	C	16.00k	79/81	JVZ	
NSERC	Multivariate-Bayes theory	C	26.00k	82/85	JVZ	
NSERC	Inter-subjective decision theory	C	40.00k	85/88	JVZ	
NSERC	SCARL infrastructure	C	16.00k	85/86	JVZ	
NSF	Multivariate Decision Analysis	C	56.00kUS	85/88	M. Perlman	J. Zidek & J. Marden
EPA	Trends: Acid Rain	NC	70.00k	84/88	JVZ	J. Petkau
NSERC	SCARL Equip	C	17.34k	86/87	JVZ	
NSERC	SCARL Infra	C	14.40k	86/89	JVZ	J. Petkau
NSERC	Nonparametric	C	32.00k	88/91	JVZ	
NSERC	SCARL Equip	C	25.54	88/89	JVZ	
NSERC	SCARL Infra	C	14.40k	86/89	JVZ	J. Petkau
NSERC	Nonparametric	C	32.00k	88/91	JVZ	
NSERC	SCARL Equipment	C	25.54	88/89	JVZ	
EPA	Acid rain; human exposure	NC	100.00k	88/91	JVZ, J. Petkau	
NSERC	SCARL Infra	C	31.75k	89/92	JVZ	
NSERC	Network design	C	28.24k	91/94k	JVZ	
NSERC	SCARL infra	C	35.00k	92/95	JVZ	
NSERC	Generalized smoothing	C	25.00k	94/98	JVZ	
NSERC	Bayesian/likelihood	C	34.0k	98/02	JVZ	
NSERC	Likelihood/mapping	C	40k	02/06	JVZ	
NSERC	Environmetrics, Likelihood	C	37k	06/11	JVZ	
NSERC CRD	Forest Products Stochastic Modeling Group	C	100k	2010-14	JVZ	
NSERC CRD	Forest Products Stochastic Modeling Group: Renewal	C	85k	2014-19	JVZ	
NSERC DG	Uncertainty & environmental process modeling.	C	16k	2011-16	JVZ	
NSERC DG	Design, measurement and modelling in spatio-temporal analysis	C	43k	2016-21	JVZ	

(c) *Research or equivalent contracts (indicate under COMP whether grants were obtained competitively (C) or non- competitively (NC)).*

Agency	Subject		\$ p.a.	Year	PI	Co-PI
NRC	Designing ship hulls	C	6.41k	91/92	JVZ	N. Le
Prov BC	Highway safety	C	4.40k	92/93	JVZ	N. Le
Health Canada	Health impacts air pollution	NC	58.56k	93/94	JVZ	N. Le
Health Canada	Exposure Simulation	C	100.00k	94/95	JVZ	N. Le
Health Canada	Exposure models	NC	50.00k	95/96	JVZ	N. Le, M. Brauer
EPA	Population exposure models	C	50.00k	96/99	JVZ	H. Ozkaynak,
EPA	Spatial Temporal Models	NC	36.00k	99/00	JVZ	
Mantech Co	Interpolating PM2.5	NC	50.00k	00/01	JVZ	
PIMS CRG	Climate Change and Geo Risk	C	105k	06/09	JVZ	P Guttorp, C Dean, S Esterby
NICDS	Agroclimate risk mgmt	C	60k	08/09	JVZ	Jim Ramsey

(d) *Invited Presentations*

1969	U Alberta
1971	U College of Wales, Aberystwyth U Birmingham
1972	Combined Statistics Seminar series, London
1975	Simon Fraser U U Washington Stanford U
1976	CSIRO Canberra U Sydney
1977	CSIRO Canberra CSIRO Melbourne CSIRO Sydney CSIRO Adelaide U Adelaide La Trobe U, Melbourne U Sri Lanka Combined Seminar, U London U Sheffield

- 1979 U of Toronto
U of Calgary
U of Chicago
Purdue U
U Cal, San Diego
- 1980 Cornell U
U Toronto
McGill U
U Orange Free State
U Capetown
U Port Elizabeth
Witwatersrand South Africa
CSIR (South Africa)
UBC
- 1982 UBC
U Washington
CSIR
U Capetown
Medical Research Council (Capetown)
U Orange Free State
U College London
- 1983 U Bath
Imperial College
U Newcastle
Board of Studies in Statist, U London (3 lectures)
U Washington, Dept Statistics (10 lectures)
- 1989 "Local regularity and smoothing: modelling", U Bath, Sep 26
"Local regularity and smoothing: statistical implications," U Bath, Oct 20
"Designs for detecting uncertain impacts," U Bath, Oct 20
"Implications for smoothing of the local regularity of a process," U Warwick, Nov 3
"Designs for detecting environmental impacts," U Sussex, Dec 8
- 1990 "Recent trends in the chemistry of acidic deposition in the United States," U Bristol, Jan 26
"Aspects of environmental monitoring," Joint Statist Sem, U London, Mar 2
"Environmental monitoring strategies," U Amsterdam, Apr 18
"Entropy-based long term monitoring strategies," U Basel, Apr 27
"Robust and group Bayesian links with Wald's statistical decision theory", U Basel, May 2
- 1991 "Designing long term environmental monitoring networks", Statist Workshop, UBC, Oct 22.
- 1995 "Assessing the health impacts of air pollution", National U Singapore, Aug 8
"Wald versus Bayes - resolving the conflict at the boundary", National U Singapore, Sep 19 & 26

- 1996 "Viewing as measurement error, Interpolants of air pollution for health impact assessment", U Bath, Jan 23
 "Relevance weighted likelihood with applications to smoothing & control charting", U Kent, Canterbury, Feb 10 & 17
 "Generalized smoothing with the relevance weighted likelihood", U Nottingham, May 2;
 "New and old bootstraps", Combined U Sussex and U Kent Seminar, May 8;
 "Spatial prediction in analyzing the effects of air pollution on human health", Workshop on geostatistical methods, U Lancaster, Jun 14
 "Relevance weighted likelihoods", Cambridge U, Jun 17
 "Measuring and modelling pollution exposure for risk analysis". Novartis Foundation Symposium #220: Environmental Statistics, London, May.
 "Relevance weighted likelihood estimates of a normal mean." Statistics Workshop. Dept. Statist, UBC.
- 1999 "Measurement error in health impact analysis." St. Paul's Hospital, Vancouver, May 21
- 2000 "Space-time interaction in spatial prediction". Dept. Math Sciences, U Bath, Oct 10
- 2002 "Estimating human exposure to air pollution". Dept. Math Sciences, U Bath, Sep 12
 "Uncertainty." Institute Mathematics & Statistics, U Kent, Sep 16
 "Uncertainty." Dept. Math Sciences, U Bath, Sep 24
 "Accounting for time-activity patterns in human exposures to air pollution: a computer modeling approach." Dept. Mathematics & Statistics, U Lancaster, Oct 25
- 2003 "Uncertainty." Institute Statistics & Decision Sciences, Duke U, Jan 10
 "A computer model for predicting human exposure to air pollutants in environmental risk assessment." Statistical & Applied Mathematical Sciences Instit, Jan 24
 "Uncertainty" Dept. Statistics, U of Florida, Apr 3
- 2004 "Uncertainty and Information." Institute of Mathematics, Federal University of Rio de Janeiro, Feb
 "Physical vs. Statistical Modelling: Towards a Reconciliation." Joint SFU – UBC colloquium, Oct
 "A Statistical Characterization of a Simulated Canadian Annual Maximum Rainfall Field." Institute of Maritime Technology, Simon's Town & University of Orange Free State, South Africa, Nov
 "Uncertainty", University of Cape Town, Nov
 "Accounting for Time-Activity Patterns in Estimating Human Exposures to Air Pollution for Health Risk Analysis", Medical Research Council, Cape Town, Nov
- 2005 "Physical vs. Statistical Modelling: Towards Reconciliation", Joint Simon Fraser – U British Columbia Seminar, Jan
- 2006 "Statisticians & their quest for an identity: What is a statistician?" Joint Simon Fraser – U British Columbia Seminar Oct.
- 2007 "Statistical modeling in setting air quality standards." PIMS Distinguished Lecture, U Washington, Jan
 "Bayesian melding in the hunt for the elusive PRB level", Statistical & Applied Math Sciences Institute, NC, Apr
 "Prefiltering vs. dynamic linear modeling of environmental space-time processes". CSIRO, Brisbane, Dec

- 2008 ““SCIENCE & REGULATORY POLICY: A travelogue about the long journey to the USAs new ozone standard.”, Southampton U, September
Co-organizer, “International graduate institute on statistics and climate modeling”
National Center for Atmospheric Research, Boulder Colorado. Aug 2008.
- 2009 “Uncertainty, Entropy, Variance & the Effect of Partial Information” UBC, Feb.
“SCIENCE & REGULATORY POLICY: A travelogue about the long journey to the USAs
new ozone standard.” Simon Fraser U, Mar
“Getting to the 2008 0.075ppm standard for ozone: The statistician's story”, Duke U, September
- 2010 “Uncertainty, Entropy, Variance & the Effect of Partial Information”
East China Normal University (Mishanga Campus), Jul
“Combining physical & statistical models to predict environmental processes”,
School of Science of Xian Jiaotong University, Jul
- 2012 “Modeling nonstationary random fields for forecasting crop yields, spatial epi, and other applications.”
Department of Biostatistics, U Michigan. Feb
- 2015 “Monster Data: Unveiling The Secret Lives Of Marine Mammals. Sea monsters of the deep. Public
lecture series., Vancouver Public Aquarium. May
“Preferentially siting environmental monitoring sites and its implications for estimates calculated from
the data.” Seminar at the Centro de Investigación en Matemáticas, Guanajuato, Mexico, Nov
“The long road to 0.075: a statistician’s perspective of the process for setting ozone standards.”
Landscape Lecture, Institute for Mathematical Innovation, Bath, United Kingdom. Sep
“Spatio--temporal method for environmental health assessment”. Three day graduate short course: BUC
Series organized jointly by the University of Bath and the CIMAT (Centro de Investigación en
Matemáticas A.C., Mathematics Research Center), Guanajuato, Mexico.
Nov 12-14.
- 2016 “If you think you need a statistician you do - 19 times out of twenty.” Probus Lecture, Tsawwassen,
Canada. Apr
“Preferential selection of environmental monitoring sites: origins, impacts and mitigation.”
Department Seminar, Manhattan, United States Apr
“The long road to 0.075 and beyond: a statistician’s perspective on the process for setting ozone
standards. Public Lecture: Institute for Mathematical Innovation, Bath, United Kingdom. Sep
“Getting to the US 2008 0.075ppm standard for ozone and beyond: The statistician’s story.”
Kansas- Western Missouri Chapter of ASA Seminar, Manhattan, United States Apr.
- 2017 “Interpolating sea mammal tracks: fusing statistical and nonstatistical models”, University of Exeter,
May, 2017.

(e) *Other Presentations*

(f) *Other*

(g) *Conference Participation (Organizer, Keynote Speaker, etc.)*

1971 Program Committee, Annual meeting of the Instit of Math Statist 1987-88 Instit

Math Statist, Special Invited Speakers Committee

1990-92 Organizing Committee, Fifth Purdue Symposium Jun 1992

1991-93 Chair, Program Committee, Instit Math Statist Annual Meeting

1973 Read paper, The Royal Statistical Society_London

1971 Annual meeting, Institute of Mathematical Statistics

- 1975 Statist Sciences Assoc Canada, Edmonton
- 1977 Australian Statistical Society
- 1981 Waterloo Symposium in honor of Barnard's 65th Birthday
- 1982 Symp on consensus of opinion (U Warwick) South Africa Statistical Association(CSIR)
- 1984 Pacific NW Statistics Meeting:
- 1985 NSF Conference on Multivariate Analysis, Gainesville, Florida; International Symposium on Small Area Estimation, Ottawa Environmetrics 85, AAAS Conference, Los Angeles
- 1986 Statist Society of Canada, Two talks, Banff, Alberta
Purdue Symposium on Decision Theory
International Conference on Statistics Teaching, Victoria, Canada Monterey
Conference on Assessing Uncertainty
- 1987 EPA Conference On Statistics
- 1989 "Bayesian extrapolants of smooth wide sense stationary processes," International Symposium On Bayesian Decision Theory, Sherbrooke, Quebec;
"Recent trends in the chemistry of wet deposition", Annual Meeting, Amer. Statist. Assoc. Washington, D.C.
"Approaches to the design of environmental monitoring networks," Statistics, Earth and Space Sciences Conference, Leuven, Belgium
"Trends in the acidity of precipitation", Swiss Association of Statisticians, Lausanne, May 4.
- 1991 "Bayesian predictive inference for samples from smooth processes." Fourth Valencia International Meeting on Bayesian Statist, Apr 19
"Entropy based strategies for the design of environmental monitoring networks." Annual Meeting of the Statistical Society of Canada, Jun 6
"The use of Bayesian and entropy methods in the design of environmental monitoring networks", Statistische Entscheidungstheorie(Spezialthema), Mathematisches Forschungsinstitut, Oberwolfach, Germany, Oct 27 -Nov 2
Environmental Modelling and Monitoring Workshop, National Institute of Statistical Science, Dec
- 1992 "Redesigning an existing environmental monitoring network", 7th International Conference on Multivariate Analysis, Penn State U, May 7
"The Wald Theory from the perspective of a current problem: group and robust estimation for the exponential distribution", Wald Retrospective Lecture, 5th Purdue Symposium, Purdue U, Jun 14
"Network design for multivariate spatial fields", 4th International Meeting of Statist in the Basque Country, San Sebastian, Aug 3-7
- 1993 "Multivariate Interpolative Prediction". Workshop on Statistical Analysis of Health & Environmental Data in Space and Time, Health - Welfare Canada & Carleton U, Mar 1-2
"An approach to environmental monitoring network redesign", WNAR Western Regional Meeting, Laramie, Wyoming, Jun 28-30
- 1994 "Hierarchical Bayes Models in Environmental Health Impact Analysis". SSC Annual Meeting, Banff, May 8-11
"The Bootstrap: Old Methods Appraised and a New Method Proposed". Statist Society of Ottawa, Sep 30
"Comments on Spatial Design". National Institute for the Statistical Sciences: Workshop on Spatial Sampling for the Environment, Sep 21-22 (presented by Nhu Le).
- 1995 "Interpolating Air Pollution for Health Impact Assessment", Spruce III, Merida, Mexico, Dec 7

- 1997 "Designing and Integrating Composite Networks for Monitoring Multivariate Gaussian Fields." Practical Bayes IV, Nottingham, England, Jul
 "Using Spatial Data in Assessing the Association Between Air Pollution Episodes and Respiratory Health." Spruce IV, Enschede, The Netherlands, Sep
 "The Relevance Weighted Likelihood." I. Simposiade Estadistica, CIMAT, Guanajuato, Mexico, Jun
 "The Relevance Weighted Likelihood." CRM Statistics Theme Year: Workshop on Empirical Bayes and Likelihood, Montreal, Nov
 "U.S. Federal Ozone Standard: A Panel Discussion." National Center For Statistics and the Environment, U. Washington, Seattle, May 1998 "Spatial Statistics in the Context of Environmental Risk Management", "Design and Analysis Methods for Spatial Data Used in Risk Analyses". CRM Statistics Theme Year: Workshop On Spatial Statistics, Montreal, Apr.
 "Measuring and Modelling Pollution Exposure for Risk Analyses." Roy. Statist. Soc., Environmental Statistics Study Group Open Meeting, London, May.
 Invited discussant, "Another Look at Conditionally Gaussian Marker Random Fields", 6th Valencia Symposium, Alcossebre, Spain, Jun
 "Relevance Weighted Likelihood Estimates of a Normal Mean", 6th Purdue Symposium, West Lafayette, Jun
 "Incorporating Imputed Measurements in Assessing the Respiratory Health Effects of Air Pollution." 19th Inter. Soc. for Clinical Biostatistics Meeting, Dundee, Scotland, Aug
 "Modeling Vancouver PM fields for health impact analysis." Particulate Methodology Workshop, Seattle, Washington, Oct
 Organizer, Particulate Methodology Workshop, Seattle, Washington, Oct
- 1999 "Spatial Prediction of Particulate Pollution Fields in Vancouver." Annual Meeting of the Statistical Society of Canada, Regina, Jun 6-9.
 "Spatial Prediction of Particulate Pollution Fields in Vancouver". 18th Leeds Annual Statistical Research Workshop, Leeds, Jul
 "Statistical Health Risk Analysis and Policy-Making". Director, SSC Luncheon Roundtable, & "Understanding Particulate Matter Air Pollution. Panel discussant &
 "New Likelihood Based Approaches With Medical Applications". Session Chair, Joint Statistical Meetings, Aug.
- 2000 "Statistical Issues in the Assessment of PM2.5 Risk". Workshop on Hierarchical Modeling in Environmental Statistics (Whies), Columbus, Ohio. May
 "Air pollution and health risk: Statistical problems and solutions." SSC Presidential Address. Annual Meeting of the Statist Soc of Canada, Ottawa, Jun.
 "Weighted likelihood estimators for normal means." AMS Summer Research Conference on Bayes, Frequentist and Likelihood Inference. Mount Holyoke, Mass. Jul.
 "Combining statistical and computer models for health risk assessment." 15th International Workshop on Statistical Modelling. Bilbao, Spain, Jul.
 "Space-time interaction in the spatial prediction of PM2.5 fields." 4th Int. Conf. On Environmetrics and Chemometrics, Las Vegas, Sep.
- 2001 "Approaches the Monitoring Network Design." SPRUCE Workshop on Environmental Design, Estoril, Portugal, Mar.
 "Approaches the Monitoring Network Design." Environmental Research Study Group, RSS, London, England, Mar.
 "The weighted likelihood". Gold Medal address Statistical Soc of Canada, SFU, Jun.
 "Space-time interaction issues in the spatial prediction of pollution fields", European Meeting of Statisticians, Funchal, Madiera, Aug.
 "Does air pollution cause ill-health?" Inaugural Mini-symposium for BIRS, Banff, Sep.
- 2002 "Uncertainty". Symposium in Honor of Constance van Eeden's 75th Birthday. Montreal, May.
 "Designing for extremes". Ann Meeting, Statist Soc of Canada. Hamilton, May.

- 2003 “Designs for Predicting the Extremes of Spatial Processes.” 2003 ENAR Spring Meeting.
Tampa, FL, Apr 1
"Modelling Environmental Space-Time Series." Hunter Lecture, The International Environmetrics Soc 2003.
Johannesberg, Nov
- 2004 “Current directions in modelling environmental space time processes.” 7th Encontro Brasileiro de Estatística
Bayesiana, Sao Carlos, Brazil, Feb
"Physical vs. Statistical Modelling: Towards a Reconciliation." Plenary Address, Statistical Association of
South Africa, Nov
- 2005 “Measuring and Modelling Space-Time Processes for Environment Risk Assessment.”
One-Day Workshop, Biostatistics Section, Statistical Society Of Canada Annual
Meeting, Saskatoon. Jun
"Estimating exposure to and health impacts of PM10 in London, 1997 using a
computational model." WNAR Meeting. Fairbanks, Alaska, Jun
- 2006 “A stochastic space-time model for annual precipitation extremes”. Banff International
Research Station, May
“Combining physical and statistical models by Bayesian modeling”, 9th International Vilnius
Conference on Probability Theory and Mathematical Statistics, Vilnius, Jun,
“Bayesian Melding: An application and critical assessment.” Joint Statistical Meetings, Seattle, Aug

“Accounting for Uncertainty in Estimating Human Exposure to Air Pollution”. Royal Statist Soc.
Annual Meeting, Belfast, Sep
“Modeling and regulating air pollution fields”, Conference on Stochastic Complex Systems, Bath Institute for
Complex Systems, Sep
Organizing committee: "Multivariate Methods in Environmetrics", ENVR & CISES, Chicago Oct “Prefiltering
vs. dynamic linear modeling of environmental space-time processes”, Int symposium on
statistical analysis of spatio-temporal data, U of Tokyo,
- 2007 Organizer: PIMS CRG Inaugural workshop &
Speaker: “PIMS Collaborative Research Group on GeoRisk and Climate Change”, Semiahmoo, Jan
“Using a multivariate approach to model univariate environmental space – time processes”, 32nd
Spring lecture series: Modeling spatial and spatio-temporal statistics. U of Arkansas, Apr
Organizer: Inaugural NPCDS workshop on agro-climate risk &
Speaker: “Modeling climate fields for agro-climate risk”, Regina, Jun
Plenary talk: “Computational strategies for modeling and regulating air pollution fields”. Uncertain AI
Conference, Vancouver, Jul
Invited Discussant: “Recent advances in spatial statistics with environmental applications”. ISI
Conference, Lisbon, Aug
- 2008 “Reconciling physical & statistical approaches to modelling” & “Modeling annual precipitation
outputs from a deterministic model: the problem of extremes”, Workshop on Data-driven and
Physically-based Models for Characterization of Processes in Hydrology, Hydraulics,
Oceanography and Climate Change. Institute of Mathematical Statistics, National University of
Singapore, Jan 6-28
"Calibrating chemical transport models to infer policy related background levels of ozone." 7th World
Congress on Probability and Statistics, Singapore, Jul (Presented for me by Co-author Zhong
Liu.)
“Forecasting a pollutant's Policy Related Background level with deterministic and statistical
models." Joint Statistical Meetings, Denver, Aug
- 2009 Chair, Organizing Committee, Statistical and Applied Mathematical Science Institute. Thematic
Program Year on Spatial Statistics, Climate Change and Spatial Epidemiology.
“Probabilistic modeling and assessment.”, AQMEII Conference, Joint Research Center, Stresa,
Italy, Apr.
- 2010 Chair, Organizing committee, Workshop on Climate Change, Statistical and Applied Math
Institute, February
“Combining physical and statistical models to predict environmental

- processes”, NICDS Workshop on Statistical Methods for Geographic and Spatial Data in the Management of Natural Resources, CRM, Montreal Mar
- “Marginalization paradox revisited”, ISBA: Jim Berger's 60th Birthday Conference, San Antonio, Mar
- “Combining physical & statistical models to predict environmental processes”, Workshop on complex data systems, Chengdu, China, Jul
- ”Spatial dimension reduction into generalized Bayesian spatial prediction”, International conference on statistical analysis of complex data, Kunming, China, Jul
- “[A](#) generalized Bayesian prediction method”, Joint Statistical Meetings, Vancouver, Aug
- 2011 “NSERC-CRD: Forest products stochastic modelling group.”, NEWBuildS Workshop, Richmond, BC
- “Forecasting phenological events”, Challenges in Statistics and Operations Research, Kuwait City.
- “Forecasting phenological events in agroclimate risk management.” Gordon C Ashton lecture, Guelph Biomathematics and Biostatistics Symposium, Guelph.
- “Forecasting crop yields for agroclimate risk management.” Joint Statistical Meetings, Miami. Organizer: Session on hydrology. International Statistical Institute Congress, Dublin.
- 2012 “Probability, statistics and data in modeling stochastic systems. Training workshop. Second NEWBuildS Annual Workshop. Richmond, BC. May
- “New approaches to subset selection for setting design values for lumber” International Workshop on New Advances in Statistics, Jun
- “An Overview of Models and Methods for Spatio-temporal Data Analysis”, Survey lecture, Annual meeting, Statistical Soc of Canada, U of Guelph, Jun
- “Spatial-temporal models in epidemiology”, Short course (Joint with Gavin Shaddick), Ann Meeting Royal Statistical Society, Telford, UK, Sep
- 2013 “BS in Britain: Mitigating the effects of preferentially selected monitoring sites for inference and policy”. High-Dimensional Inference with Applications, U of Kent, Jun
- 2014 “BS in Britain: Mitigating the effects of preferentially selected monitoring sites for inference and policy “, Frontiers of Hierarchical Modeling in Observational Studies, Complex Surveys and Big Data honoring Malay Ghosh, College Park, Maryland, May
- “Spatial temporal models in epidemiology”, One day short course. Statistical Soc of Canada Annual meeting, Toronto, May
- “Spatial temporal models in epidemiology”, One day short course. International Society for Bayesian Statistics, Cancun, Mexico Jul 14.
- “Mitigating the effects of preferentially selected monitoring sites for inference and policy.” International Society for Bayesian Analysis. 2014 Annual Meeting, Cancun, Mexico . Jul
- “Statistical Modeling for Climate Risk Assessment & Climate Change Adaptation”, JSM, Aug
- 2015 “Mitigating the effects of preferentially selected monitoring sites for environmental policy and health risk analysis. Royal Statistical Society's 2015 Annual Meeting, Exeter, United Kingdom
- “Preferentially monitored air pollution fields: the effect on estimates of annual averages and relative health risks.” Joint Statistical Meetings, 2015, Seattle, United State Aug 8-13.
- “Melding biologists with statisticians and models with data” Big data in environmental science: a PIMS-CANSSI sponsored workshop., Vancouver, Canada May
- “Recalculating the relative risks of air pollution to account for preferential site selection.” ENAR 2015. Spring meeting, Miami, United States. Mar 15-18
- 2016 “Sea Mammal tracks as Gaussian processes: fusing statistical & nonstatistical models.” Fifth Workshop on Bayesian Inference for Latent Gaussian Models with Applications, Bath, United Kingdom. Sep
- “Getting to the US 2008 0.075ppm standard for ozone and beyond: the statistician’s story.” Meeting of the Kansas-Western Missouri Chapter, American Statistical Association, Mar 2016.
- 2017 “Uncertainty in the world of post-normal science”, In *Challenges in the Statistical Modeling of Stochastic Processes for the Natural Sciences*, Banff International Research Station, Jul, 2017.
- “What role should statisticians play in environmental policy and regulation?”, Panel discussion, Joint Statistical Meetings, Baltimore, Aug 2017.
- 2017-19 Organizing Committee, Institute of Mathematical Statistics, National University of Singapore, Conference in memory of Charles Stein.

10. SERVICE TO THE UNIVERSITY

(a) Memberships on committees, including offices held and dates

Departmental Committees:

1968-1971 Departmental Committee on Appointments
1968-1971 Curriculum Committee
1969-1971 Graduate Affairs Committee
1971 Teaching Questionnaire (for Promotions and Tenure Committee)
1972 Promotion and Tenure
1972 Who Teaches What Committee
1972-1974 Local Arrangements Committee for International Congress of Mathematics 1973-
1974 Committee on Composition of the Department of Mathematics
1974-1975 Restrepo Committee on listing in the Calendar Applied Math/Stat Programs 1974-1975
DCA
1977-1978 Review Committee
1978-1979 Appeals Committee, DCA
1978-1979 DCA Executive Sub-committee
1979-1980 Steering Committee, IAMS
1980-1982 Committee on Appointments
1981-1982 Curriculum committee
1984-1988 Committee on Appointments
1986-1988 Curriculum Committee
1988-1989 Coordinator Statistical Consulting & Research Lab
1990-1992 Coordinator Statistical Consulting & Research Lab
1990-1991 Executive Committee
1990-1991 Committee on Space
1992-1994 Undergraduate affairs Curriculum Committee
1994-1995 Vice-Head of Statistics
1996- 1997 Undergraduate Affairs
2008 ESSB CFI Committee

University Committees:

1968-70 Ad Hoc Committee on an Institute for Applied Mathematics and Statistics (IAMS)
1970-71 in charge, IAMS Colloquiums
1971 Chairman, Committee on Consulting, IAMS
1971-72 Senate Committee to Study Sociological Background of UBC students
1972-73 Faculty of Graduate Studies, Committee on Proposed Econometrics Courses
1972-73 Co-director, IAMS Statistical Consulting Service
1972-73 President's Ad Hoc Committee to consider report on Status of Women at UBC
1972-73 Search Committee for Director of the IAMS
1973-76 Science representative in Commerce
1974-77 Executive Committee, IAMS
1975-76 Ad Hoc Committee on Statistics Courses.
1977-79 Chairman, IAMS Statistics Workshop
1980-82 Co-director IAMS Statistical Consulting Service
1985 Faculty of Science Public Relations Committee
1985-90 University Awards Committee
1987-89 President Selection Committees, Heads of Health Care and Epidemiology and
Statistics, Dean of Science
1991-92 Coordinating Committee for Institute of Advanced Studies
1994-95 UBC Advisory Committee on Research Policy
1996- 2000 VP Research: Executive Committee
2009- 2013 Executive Committee, Association of Professors Emeriti

(b) *Other service, including dates*

11. SERVICE TO THE COMMUNITY

(a) *Memberships on scholarly societies, including offices held and dates*

Institute of Mathematical Statistics
American Statistical Association
Royal Statistical Society
Statistical Society of Canada
International Association of Survey Statisticians
International Statistical Institute
International Society of Bayesian Analysis
The International Environmetrics Society

(b) *Memberships on other societies, including offices held and dates*

- (c) *Memberships on scholarly committees, including offices held and dates*
- | | |
|-----------|--|
| 1970 | Ad Hoc Committee on the need for a Statistical Association in Canada |
| 1974-75 | Organizing Committee of the Canadian Statistical Society |
| 1978-81 | NSERC Statistics Grant Selection Committee (Chairman 1980/81) |
| 1984-86 | Institute of Mathematical Statistics: Nominating Committee |
| 1985-87 | Methodological Advisory Committee, Statistics Canada |
| 1986-1989 | Statistical Society of Canada: President Elect, President and Past President |
| 1987-88 | Committee of Presidents of Statistical Societies.
Statistical Society of Canada: Strategic Planning Committee |
| 1988-91 | NSERC's Stacie Awards Committee
Committee on the Research Base
Group Chair of the Mathematical Sciences |
| 1991-92 | Institute of Mathematical Statistics: Nominating Committee |
| 1991-94 | Methodological Advisory Committee, Statistics Canada |
| 1996-99 | Institute of Mathematical Statistics: Council |
| 1996-98 | International Society of Bayesian Analysis: Council |
| 1999- | Science Advisory Committee, EPA NWPM Center, U. of Washington |
| 2000-01 | Awards Committee, Statistical Society of Canada |
| 2004-05 | McNeil Awards Committee, Royal Society of Canada (RSC) |
| 2005 | Review Committee, Department of Statistics, Oxford University |
| 2005- | Scientific Advisory Committee, National Center for Atmospheric Research, Boulder Colorado |
| 2005-07 | Clean Air Scientific Advisory Committee for Ozone, Environmental Protection Agency, USA |
| 2007-09 | Banff International Research Station (BIRS). Application Review Committee |
| 2008-10 | The Mathematics of Information Technology and Complex Systems (MITACS).
Research Management Committee 2008 DeGroot Book Prize Committee, ISBA |
| 2010-15 | Council, International Statistical Institute |
| 2014 | NSF Statistics Panel |
| 2016-19 | Awards Committee, Environmental Statistics Section, American Statistical Association |

(d) *Memberships on other committees, including offices held and dates*

(e) *Editorships (list journal and dates)*

Associate editorships:

- | | |
|---------|---|
| 1975-80 | Annals of Statistics |
| 977-80 | Canadian J of Statistics |
| 1980-84 | Senior Associate Editor |
| 1989-92 | Annals of Statistics |
| 1992-96 | Environmetrics |
| 1998-01 | Canadian Journal of Statistics |
| 2005-07 | J American Statistical Association |
| 2008-10 | J American Statistical Association |
| 2010-16 | J Agricultural, Biological and Environmental Statistics |

Editorships:

- | | |
|---------|--|
| 1987-92 | Statistical Science |
| 1992-97 | Chapman and Hall: Advisory Editor in Statistics and Probability. |
| 1998- | CRC: Advisory Editor in Statistics and Probability. |
| 1999- | Wiley: Editor for Encyclopedia of Environmental Statistics. |

(f) *Reviewer (journal, agency, etc. including dates)*

Too numerous to list (at about six to 12 per year)

(g) *External examiner (indicate universities and dates)*

(h) *Consultant (indicate organization and dates)*

Major Consulting Projects.

Neurological sequelae in children of low birth weight with respiratory distress.

Decomposing a certain mixed geological population.

Provincial dental health survey sample design.

Attorney General's Department survey of legal case histories. Provincial survey of school leavers.

Family and Children's Law Commission survey of matrimonial property practices. Income reduction of a physician during a period of impairment

resulting from a car accident. (Expert witness in a civil suit.) Critical loading curves for the Lion's Gate Bridge.

Wind component models. Australian consumer protection codes, 1977 Wet-dry year grain yield prediction models, CSIRO, Australia 1977 Australian national blood pressure study, 1977

Construction Co. vs. B.C. Rail: Statistical Analysis for the Plaintiff, 1980 Open Learning Institute: Course consultant, 1980

Small Area Population Estimation, 1982 City of Vancouver

Beaufort Sea Monitoring Program 1984 National Oceanographic and Atmospheric Agency of the USA

Extreme current values, 1985, Seaconsult (for Mobil Oil)

Theuran Industries vs. Pay n Pak: Antitrust Suit (USA), 1987//87 Safety performance of B.C. Highways, 1992

ASA Panel: Soil contamination in the Rocky Mountain Arsenal, Denver, Colorado, for Seacor, 1993.

FPIinnovations/Forintek: Longterm personal services agreement for advising on Statistical issues connected with lumber standards. 2005-

12. AWARDS AND DISTINCTIONS

(a) *Awards for Teaching (indicate name of award, awarding organizations, date)*

(b) *Awards for Scholarship (indicate name of award, awarding organizations, date)*

1976 Elected Fellow, Institute of Mathematics Statistics

1979 Elected Member, International Statistical Institute

1988 Elected Fellow, American Statistical Association

1987/88 President, Statistical Society of Canada, 1987- 88

1989/90 Izaak Walton Killam Senior Fellowship

1999 Ninth Eugene Lukacs Symposium Distinguished Service Award,

2000 Invited Presidential Address, Statistical Society of Canada

2000 Gold Medal, Statistical Society of Canada

2000 Distinguished Achievement Medal, Environmental Statistics Section of the American Statistical Association

2001 Izaak Walton Killam Research Prize

2003 Hunter Lecture, International Environmetrics Society

2003 Elected Fellow, Royal Society of Canada

2004 Plenary Lecture, South African Statistical Association

2005 Honorary Membership Statistical Society of Canada

Appointed to Clean Air Scientific Advisory Committee for Ozone, US EPA

2007 PIMS Tenth Anniversary Distinguished Lecture, U Washington

2011 Gordon C Ashton Memorial Lecture, U of Guelph

THE UNIVERSITY OF BRITISH COLUMBIA

Publications Record

SURNAME: ZIDEK

FIRST NAME: James

Initials:

MIDDLE NAME(S): Victor

Date: May 2017

REFEREED PUBLICATIONS

Journals

- McGregor, J.R. and Zidek, J.V. "Limiting distributions of response probabilities." *Ann. Math. Statist.*, 36:706-707, (1965).
- McGregor, J.R. and Zidek, J.V. "A sequence of limiting distributions of response probabilities." *Psychometrika*, 30:491-497, (1965).
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- Zidek, J.V. "Deriving unbiased risk estimators of multinormal mean and regression coefficient estimators using Zonal polynomials." *Ann. Statist.*, 6:769-782, (1978).
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