

THE UNIVERSITY OF BRITISH COLUMBIA
Curriculum Vitae for Faculty Members

Date: Jan 2025 **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

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5. **POST-SECONDARY EDUCATION**

University	Degree	Subject Area	Date
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	Date
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	Date
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*

D. Chew		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
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	M.Sc.	2008	2009	J.V. Zidek	Lang Wu
Song Cai	M.Sc.	2008	2009	J.V. Zidek	Nathaniel Newlands
Luke Bornn	Ph.D.	2008	2012	J.V. Zidek	A. Doucet
Yiping Dou	P.D.F.	2008	2009	J.V. Zidek	
Tara Cai	Ph.D.	2009	2015	J.V. Zidek	Will Welch
Song Cai	Ph.D.	2009	2015	Jiahua Chen	J.V. Zidek
Camila Casquilho-Resen	Ph.D.	2012	2016	J.V. Zidek	Nhu D. Le
Yang Liu	Ph.D.	2013	2017	J.V. Zidek	
Henry Chen	M.Sc.	2016	2020	J.V. Zidek	
Seong-Hwan Jun	Ph.D.	2014	2017	A. Bouchard-Cote	J.V. Zidek
Harry Lee	M.Sc.	2016	2019	J.V. Zidek	
Adrian Jones	M.Sc.	2016	-	J.V. Zidek	
Wayne Wang	M.Sc.	2016	2018	J.V. Zidek	
Joe Watson	Ph.D.	2017	2020	J.V. Zidek	Marie Augur-Méthé
Shuxian Fan	B.Sc.	2017	2017	J.V. Zidek	
Jenny Lee	B.Sc.	2017	2017	J.V. Zidek	
Fatema Jhohura	M.Sc.	2018	2019	J.V. Zidek	
Kunjia Shi	B.Sc.	2018	2018	J.V. Zidek	
Shuxian Fan	M.Sc.	2018	2020	J.V. Zidek	
Meiying Ding	B.Sc.	2021	2021	J.V. Zidek	J Chen, CG Taylor
Alexander Sharp	PDF	2023	2024	B. Bloem-Reddy	C. Madison, JVZ
Xinglong Li	PDF	2023	2025	T.Campbell	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

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	US 56.0k	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	100.0k	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	40.0k	02/06	JVZ	
NSERC	Environmetrics, Likelihood	C	3.70k	06/11	JVZ	
NSERC CRD	Forest Products Stochastic Modeling Group	C	100.0k	2010-14	JVZ	
NSERC CRI	Forest Products Stochastic Modeling Group Renewal	C	85.0k	2014-20	JVZ	
NSERC DG	Uncertainty & environmental process modeling.	C	16.0k	2011-16	JVZ	
NSERC DG	Design, measurement and modelling in spatio-temporal analysis	C	46.0k	2016-22	JVZ	
NSERC DG	Spatio-temporal modelling, network design, health effects, and dimensional analysis	C	18.0k	2022-27	JVZ	
CANSSI	Statistical foundations of invariant representation learning with applications to data-driven compression and algorithm design)	C	70.0k	2023-25	B. Bloem-Reddy, C.J.Maddison	JVZ

(b) *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	6.4k	91/92	JVZ	N. Le
Prov BC	Highway safety	C	4.4k	92/93	JVZ	N. Le
Health Canada	Health impacts air pollution	NC	58.6k	93/94	JVZ	N. Le
Health Canada	Exposure	C	100.0k	94/95	JVZ	N. Le
Health Canada	Simulation					
Health Canada	Exposure models	NC	50.0k	95/96	JVZ	N. Le, M. Brauer
EPA	Population exposure models	C	50.0k	96/99	JVZ	H. Ozkaynak,
EPA	Spatial Temporal Models	NC	36.0k	99/00	JVZ	
Mantech C	Interpolating PM2.5	NC	50.0k	00/01	JVZ	
PIMS CR	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

(c) *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^{[11][11][11]}_{[SEP][SEP][SEP]}
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^{[11][11][11]}_{[SEP][SEP][SEP]}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^{[11][11][11]}_{[SEP][SEP][SEP]}Apr.
- 2017 Interpolating sea mammal tracks: fusing statistical and nonstatistical models, University of
Exeter, May, 2017.

(d) *Other Presentations*

(e) *Other*

(f) *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 PM_{2.5} 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 PM_{2.5} 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. Johannesburg, 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 modelling 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 Spatiotemporal 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^[SEP], 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^[SEP]
 Preferentially monitored air pollution fields: the effect on estimates of annual averages and relative health risks. Joint Statistical Meetings, 2015, Seattle, United States^[SEP], Aug 8-13.
 Melding biologists with statisticians and models with data Big data in environmental science: a PIMS-CANSSI sponsored workshop., Vancouver, Canada^[SEP], 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.
- 2018 Modeling Preferential Site Selection in Networks Used to Monitor Environmental Spatio-Temporal Processes.
 Joint Statistical Meetings, Vancouver, Canada
 Hazardous environmental processes: modelling bias in the selection of the sites that monitor them. Data. Science for global environmental risk assessment, Exeter, United Kingdom
 Roadblocks on the road to causality in environmental epidemiology. Causal adjustment in the presence of spatial dependence, Montreal, Canada
 New Statistical Methods for Lumber Analytics — Invited: Organizer of session. Joint statistical meetings, Vancouver, Canada
 Towards a general theory for preferential sampling: detecting the preferential selection of sites over time from a fixed population of possible locations. Royal Statistical Society Annual Meeting, Cardiff, United Kingdom
 Seeing the trees through a statistical forest: the SFU-UBC-FPInnovations story and the lessons learned..Joint SFU-UBC Student Seminar, Vancouver, Canada
 The Future of Spatial and Spatio-Temporal Statistics: Perspectives for the Next Generation of Leaders: Discussant. Joint Statistical Meetings, Vancouver, Canada

Preferential selection of environmental monitoring sites: origins, impacts and mitigation: Part I. U of Toronto Research Day, Toronto, Canada

- 2019 Getting to the 2015 US 0.070ppm standard for ozone: The statistician's story.Seminar at the Institute of Data Science and Artificial Intelligence, Exeter, United Kingdom
The origins & future of environmental statistics for environmental intelligence: a personal perspective. Summit on Environmental Intelligence, Exeter, United Kingdom
Approximately optimal subset selection for statistical design and modelling. 10th International Workshop on Simulation and Statistics, Salzburg, Austria.

- 2020 Cancellations due to Covid Virus

- 2021 Dimensional analysis and statistical modelling, EAC-ISBA 2021. **Virtual:** Conference App Whova

- 2022 Dimensional Analysis, Statistical Modelling and the Unconscious Statistician, 7th Bayesian, Fiducial & Frequentist (BFF7) Conference, Toronto, Canada

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
2022-2025	Awards Committee (Chair in 2024-25), Emeriti College, UBC

(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
1986-89	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
2022-25	UBC Emeriti College Awards Committee
2022	Rousseeuw Prize Selection Committee

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

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

Associate editorships:

1975-80	Annals of Statistics
1977-80	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) *External examiner (indicate universities and dates)*

- (g) *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.

FPInnovations/Forintek: Long-term 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
2005	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
2015	Global Chair in the Institute for Mathematical Innovation.
2018	Statistician of the Month: September, Chapman and Hall/CRC Press
2019	The David Rees Distinguished Visiting Fellowship, University of Exeter
2020	Appointed Officer of the Order of Canada
2023	Inaugural Winner: UBC Emeritus College Award for Excellence in Innovative and Creative Endeavors

THE UNIVERSITY OF BRITISH COLUMBIA
Publications Record

SURNAME: ZIDEK

FIRST NAME: James

Initials:

MIDDLE NAME(S): Victor

Date: Jul 2024

REFEREED PUBLICATIONS

Journals

McGregor, J.R. and Zidek, J.V. Limiting distributions of response probabilities. *Ann. Math. Statist.*, 36:706-707, (1965).

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