2766 Waite Road Nelson BC V1L 6K9 Canada (250) 505 3621 iainpardoe@gmail.com https://www.iainpardoe.com

Work and experience

1/10-present	Open Learning Faculty Member. I teach <i>Principles of Math for Teachers, Math for Computing Science,</i> and <i>Biostatistics</i> online for Thompson Rivers University Open Learning , BC. I have also taught <i>Applied Math and Science</i> in the <i>Water and Wastewater Technology Program</i> and designed and written course material for <i>Introduction to Probability and Statistics, Principles of Math for Teachers, Biostatistics, Statistics for Business and Economics, Math for Computing Science, and Managerial Statistics.</i> I am also an
	Assessor for Prior Learning Assessment and Recognition (PLAR).
10/08-present	Online Instructor. I teach <i>Regression Analysis</i> for Statistics.com , an online provider of professional development courses in statistics based in the United States.
5/13-8/22	Online Instructor. I taught graduate Regression Methods online for The Pennsylvania State University World Campus. I also taught Applied Statistics and Applied Data Mining and designed and wrote course material for Regression Methods and Applied Data Mining.
1/16-9/16	Curriculum Developer. zyBooks, California. Developed interactive web-based learning material for undergraduate statistics courses.
4/09-7/10	Online Mathematics Tutor/Mentor. Self Design High Online School, BC.
1/09-4/10	Statistics Instructor and Mathematics Tutor. School of University Arts and Sciences, Selkirk
1/0/1/10	College, BC.
9/07-6/09	Associate Professor (with indefinite tenure). Department of Decision Sciences, Charles H. Lundquist
,, 0, 0, 0,	College of Business, University of Oregon.
	Areas of research interest: Bayesian analysis, multilevel modeling, graphical methods, diagnostics
	and validation, and choice modeling.
	Courses taught: business statistics (intermediate regression course for undergraduates), multivariate
	statistical methods (elective for MBAs, advanced undergraduates), information analysis for
	managerial decisions (elective for MBAs, advanced undergraduates).
9/01-9/07	Assistant Professor. Department of Decision Sciences, Charles H. Lundquist College of Business,
	University of Oregon.
4/05-6/05	Statistical Consultant. Department of Decision Sciences, Charles H. Lundquist College of Business,
	University of Oregon.
5/01-8/01	Provided consulting on statistical validation of shipyard scheduling software.
5/01-8/01	Statistical Consultant. School of Statistics, University of Minnesota. Provided statistical consulting on experimental design, data analysis and interpretation of results to
	graduate student and faculty researchers.
9/00-5/01	Research Assistant. School of Statistics, University of Minnesota.
7/00-3/01	Worked with R. D. Cook on graphical techniques for regression and discriminant analysis.
5/00-8/00	Statistical Consultant Intern. 3M, St. Paul, Minnesota.
37 00 07 00	Worked with supply chain planners and 3M statisticians to improve their monthly forecasts of product demand.
1/00-5/00	Instructor. School of Statistics, University of Minnesota.
2,000,00	Taught an intermediate level class on applied statistical inference and computing.
9/96-12/99	Teaching Assistant. School of Statistics, University of Minnesota.
	Taught lab sessions, graded, tutored, maintained websites for undergraduate and graduate statistics
	classes in applied regression, categorical data, introduction to statistics, and statistical analysis.
6/97-6/99	Research Assistant. School of Statistics, University of Minnesota.
	Worked with S. Weisberg and R. D. Cook on regression textbook and accompanying software.
8/93-9/96	Assistant Statistician. Department of the Environment, London, UK.
	Civil Service Fast Stream (accelerated promotion) statistician working on environmental policy and
	government finance.

Education

8/01	PhD in Statistics. University of Minnesota, Minneapolis, Minnesota.
	Thesis: A Bayesian approach to regression diagnostics. Advisor: R. Dennis Cook.
10/98	MSc in Statistics. University of Minnesota, Minneapolis, Minnesota. Advisor: Sanford Weisberg.
6/92	BSocSc in Economics and Statistics (first class). University of Birmingham, UK.

Publications

Refereed papers

Durham, C. A., C. A. Roheim and I. Pardoe (2012). Picking Apples: Can multi-attribute ecolabels compete? *Journal of Agricultural & Food Industrial Organiziation* 10(1), online.

- Pardoe, I. (2008). Modeling home prices using realtor data. Journal of Statistics Education 16(2), online.
- Pardoe, I. and D. K. Simonton (2008). Applying discrete choice models to predict Academy Award winners. *Journal of the Royal Statistical Society: Series A (Statistics in Society)* 171(2), 375-394.
- Gelman, A. and I. Pardoe (2007). Average predictive comparisons for models with nonlinearity, interactions, and variance components. *Sociological Methodology* 37(1), 23-51.
- Pardoe, I. and R. D. Cook (2007). A graphical diagnostic for variance functions. *Australian & New Zealand Journal of Statistics* 49(3), 241-250.
- Pardoe, I., X. Yin, and R. D. Cook (2007). Graphical tools for quadratic discriminant analysis. *Technometrics* 49(2), 172-183.
- Gelman, A. and I. Pardoe (2006). Bayesian measures of explained variance and pooling in multilevel (hierarchical) models. *Technometrics* 48(2), 241-251.
- Pardoe, I. and R. R. Weidner (2006). Sentencing convicted felons in the United States: a Bayesian analysis using multilevel covariates. *Journal of Statistical Planning and Inference* 136(4), 1433-1472.
- Pardoe, I. (2005). Just how predictable are the Oscars? Chance 18(4), 32-39.
- Pardoe, I. (2004). Multidimensional scaling for selecting small groups in college courses. *The American Statistician* 58(4), 317-321.
- Durham, C. A., I. Pardoe, and E. Vega (2004). A methodology for evaluating how product characteristics impact choice in retail settings with many zero observations: an application to restaurant wine purchase. *Journal of Agricultural and Resource Economics* 29(1), 112-131.
- Pardoe, I (2004). Model assessment plots for multilevel logistic regression. *Computational Statistics and Data Analysis* 46(2), 295-307.
- Weidner, R. R., R. Frase, and I. Pardoe (2004). Explaining sentence severity in large urban counties: a multilevel analysis of contextual and case-level factors. *The Prison Journal* 84(2), 184-207.
- Pardoe, I. and R. D. Cook (2002). A graphical method for assessing the fit of a logistic regression model. *The American Statistician* 56(4), 263–272.
- Pardoe, I. (2001). A Bayesian sampling approach to regression model checking. *Journal of Computational and Graphical Statistics* 10(4), 617–627. (Winning entry in the 2000 Student Paper Competition sponsored by the Statistical Computing Section of the American Statistical Association.)
- Cook, R. D. and I. Pardoe (2000). Comment on "Bayesian backfitting" by T. J. Hastie and R. J. Tibshirani. *Statistical Science* 15(3), 213–216.
- Pardoe, I. and R. D. Cook (2000). Sampling to assess the fit of regression models. *Joint Newsletter for the Section on Physical and Engineering Sciences and the Quality and Productivity Section of the American Statistical Association 6(1)*, 10-11

Conference proceedings

- Dain, O., M. Ginsberg, E. Keenan, I. Pardoe, J. Pyle, T. Smith, and A. Stoneman (2006). Stochastic shippyard simulation with SimYard. In *Proceedings of the 2006 Winter Simulation Conference*, Piscataway, NJ. Institute of Electrical and Electronics Engineers.
- Pardoe, I. (2006). Designing a stated choice survey to study food product eco-labels. In *Proceedings of the 2006 Joint Statistical Meetings*, Alexandria, VA. American Statistical Association.
- Pardoe, I. (2006). Forming small class groups using multidimensional scaling. In *Proceedings of the 7th International Conference on Teaching Statistics*, Voorburg, Netherlands. International Statistical Institute, International Association for Statistical Education.

Pardoe, I. (2005). Predicting Academy Award winners using discrete choice modeling. In *Proceedings of the 2005 Joint Statistical Meetings*, Alexandria, VA. American Statistical Association.

- Gelman A. and I. Pardoe (2004). Measures of explained variance and pooling in multilevel models. In *Proceedings of the* 2004 Joint Statistical Meetings, Alexandria, VA. American Statistical Association.
- Pardoe, I. and C. A. Durham (2003). Model choice applied to consumer preferences. In *Proceedings of the 2003 Joint Statistical Meetings*, Alexandria, VA. American Statistical Association.
- Pardoe, I. (2002). Model assessment plots for logistic regression with multilevel covariates. In *Proceedings of the 2002 Joint Statistical Meetings*, Alexandria, VA. American Statistical Association.
- Pardoe, I. (2001). A graphical method for assessing the fit of a regression model. In *Proceedings of the 2001 Joint Statistical Meetings*, Alexandria, VA. American Statistical Association.

Non-refereed articles

- Pardoe, I. and D. K. Simonton (2013). Which nominee seems most likely to win the Academy Award and why? In Kaufman, J. C. and D. K. Simonton, editors, *The Social Science of the Cinema*. New York: Oxford University Press.
- Pardoe, I. (2007). Predicting Oscar winners. Significance 4(4), 168-173.
- Dain, O., M. Ginsberg, E. Keenan, I. Pardoe, J. Pyle, T. Smith, and A. Stoneman (2005). Statistical validation of shipyard scheduling software. Technical Report, Lundquist College of Business, University of Oregon.
- Pardoe, I., D. Boush, and H. Okut (2003). Measuring consumer preference for socially responsible products: an application of the multinomial adjacent-categories logit random effects model. Technical Report, Lundquist College of Business, University of Oregon.
- Pardoe, I. (2002). User's manual for BMMP S-PLUS/R software (revision). Technical Report, Lundquist College of Business, University of Oregon.
- Pardoe, I. and S. Weisberg (2001). An introduction to bootstrap methods using Arc (revision). Technical Report 631, School of Statistics, University of Minnesota.
- Pardoe, I. (2001). User's manual for BMMP S-PLUS/R software. Technical Report 639, School of Statistics, University of Minnesota.
- Pardoe, I. and S. J. Janis (2000). An analysis of current demand forecasting methods used at 3M, and recommendations for improvements. Internal Report, 3M, St. Paul, Minnesota.
- Pardoe, I. (1999). An introduction to bootstrap methods using Arc. Technical Report 631, School of Statistics, University of Minnesota.

Books

- Pardoe, I. (2023). Mathematics for Elementary Statistics. Montreal: Pressbooks. https://mathforteachers.pressbooks.tru.ca
- Pardoe, I. (2022). *Introduction to Probability and Statistics*. Montreal: Pressbooks. https://introprobabilityandstatistics.pressbooks.tru.ca
- Pardoe, I. (2021). Applied Regression Modeling, 3rd edition. New York: Wiley.
- Pardoe, I. (2012). Applied Regression Modeling, 2nd edition. New York: Wiley.
- Pardoe, I. (2006). Applied Regression Modeling: A Business Approach. New York: Wiley.
- Pardoe, I. (2012). Instructor's Manual for "Applied Regression Modeling: A Business Approach" by I. Pardoe.
- Pardoe, I. and J. de la Vega (2001). Instructor's Manual for "Applied Regression Including Computing and Graphics" by R. D. Cook and S. Weisberg.

Presentations

- 8/18. Reflections on 10 years of teaching online. Contributed Session at the Joint Statistical Meetings in Vancouver, BC.
- 5/16. Assessing student engagement and improving course design using course data. Invited panel discussion at the 7th Annual Learning in Our Digital World Conference at Thompson Rivers University, Kamloops, BC.
- 1/08. A Map of Bayesianity. Poster at the 3rd joint international meeting of the Institute of Mathematical Statistics and International Society for Bayesian Analysis (MCMSki II: Markov Chain Monte Carlo in Theory and Practice) in Bormio, Italy.

11/07. Discrete choice modeling of food product eco-labels. Invited research seminar at the Department of Statistics, Oregon State University, Corvallis, OR.

- 7/07. Discrete choice modelling of food product eco-labels. Contributed Paper at the Royal Statistical Society 2007 Conference in York, UK.
- 8/06. Designing a stated choice survey to study food product eco-labels. Contributed Session at the Joint Statistical Meetings in Seattle, WA.
- 7/06. Forming small class groups using multidimensional scaling. Contributed Paper at the 7th International Conference on Teaching Statistics in Salvador, Brazil.
- 8/05. Predicting Academy Award winners using discrete choice modeling. Topic Contributed Session at the Joint Statistical Meetings in Minneapolis, MN.
- 4/05. Tools for understanding multilevel (hierarchical) regressions. Contributed Paper at the 55th Session of the International Statistical Institute in Sydney, Australia.
- 9/04. Average predictive effects for models with nonlinearity, interactions, and variance components. Conference Theme Session at the Royal Statistical Society 2004 Conference in Manchester, UK.
- 8/04. Measures of explained variance and pooling in multilevel models. Topic Contributed Session at the Joint Statistical Meetings in Toronto, ON.
- 6/04. Average predictive effects for models with nonlinearity, interactions, and variance components. Invited presentation at the International Chinese Statistical Association 2004 Applied Statistics Symposium in San Diego, CA.
- 6/04. Average predictive effects for models with nonlinearity, interactions, and variance components. Invited research seminar at the Center for Statistics and the Social Sciences, University of Washington, Seattle, WA.
- 5/04. Average predictive effects for models with nonlinearity, interactions, and variance components. Research seminar at the Department of Decision Sciences, University of Oregon, Eugene, OR.
- 8/03. Model choice applied to consumer preferences. Topic Contributed Session at the Joint Statistical Meetings in San Francisco, CA.
- 7/03. Measuring consumer preference for socially responsible products: an application of the multinomial adjacent-categories logit random effects model. Invited presentation at the Institute of Mathematical Statistics Sixth North American Meeting of New Researchers in Davis, CA.
- 3/03. Measuring consumer preference for socially responsible products: an application of the multinomial adjacent-categories logit random effects model. Invited presentation at a Sustainable Business Group Meeting, University of Oregon, Eugene, OR.
- 8/02. Model assessment plots for logistic regression with multilevel covariates. Topic Contributed Session at the Joint Statistical Meetings in New York, NY.
- 6/02. Sentencing convicted felons in the United States: a Bayesian analysis using multilevel covariates. The Seventh Valencia International Meeting on Bayesian Statistics in Tenerife, Spain.
- 4/02. A graphical method for assessing the fit of a logistic regression model. Invited research seminar at the Department of Statistics, Oregon State University, Corvallis, OR.
- 8/01. A graphical method for assessing the fit of a regression model. Topic Contributed Session at the Joint Statistical Meetings in Atlanta, GA.
- 8/00. A Bayesian sampling approach to regression model checking. Topic Contributed Session at the Joint Statistical Meetings in Indianapolis, IN.
- 8/00. An analysis of current demand forecasting methods used at 3M, and recommendations for improvements. Presentation to 3M Statistical Consulting Group, St. Paul, MN.

Awards and honors

2010	Thompson Rivers University. Recipient of Outstanding Service Award from Open Learning
2007	Royal Statistical Society. Recipient of a conference grant to attend the Royal Statistical Society 2007
	Conference.
2006-2007	University of Oregon. Recipient of the Goulet Research Excellence Award from the Lundquist
	College of Business.
2002-2007	University of Oregon. Recognized for excellent teaching by the Lundquist College of Business.

2005	American Statistical Association. Recipient of travel funds to attend the 55th Session of the
	International Statistical Institute.
2005	University of Oregon. Recipient of foreign travel funds to attend the 55th Session of the
	International Statistical Institute.
2003	San Diego State University Foundation. Recipient of travel funds to attend the Sixth North
	American Meeting of New Researchers.
2002	International Society for Bayesian Analysis. Winner of a Conference Travel Award for the Seventh
	Valencia International Meeting on Bayesian Statistics.
2002	University of Oregon. Recipient of foreign travel funds to attend the Seventh Valencia International
	Meeting on Bayesian Statistics.
2001	University of Minnesota. Recipient of a Graduate School Doctoral Dissertation Fellowship
	supplemental grant for the 2001 Joint Statistical Meetings.
2001	American Statistical Association. Winner of a Student Travel Award sponsored by the Section on
	Bayesian Statistical Science for the 2001 Joint Statistical Meetings.
2000-2001	University of Minnesota. Graduate School Doctoral Dissertation Fellowship.
2000	American Statistical Association. Winner of the Student Paper Competition sponsored by the
	Section on Statistical Computing.
1996-1998	University of Minnesota. British Universities North America Club BEST Scholarship.
1992	University of Birmingham. Highest scoring first class degree in the Economics Department and
	highest final examination marks in the Mathematics Department.
1989-1992	University of Birmingham. Brockhouse Scholarship

Grants

2023 Math for elementary teachers open learning resources, Thompson Rivers University Open Learning,

Innovation Fund. \$4,000.

2004-2007 Demand impacts and implementation of eco-labels for food products (with C. A. Durham, J.

McCluskey, R. King, C. Roheim, and A. Johnson), US Department of Agriculture, National Research

Initiative Grants Program. \$460,000.

Professional Activities

Ad hoc reviewer for journals: Annals of Epidemiology, Bayesian Analysis, Biometrics, Biostatistics, Computational Statistics and Data Analysis, INFORMS Transactions on Education, Journal of Computational and Graphical Statistics, Journal of Statistical Planning and Inference; grant agencies: National Science Foundation; and publishers: McGraw-Hill, Elsevier. Conference session chair: Joint Statistical Meetings (Toronto, 2004, San Francisco, 2003), International Conference on Teaching Statistics (Salvador, Brazil, 2006).

Conference session organizer: Joint Statistical Meetings (Minneapolis, 2005, Atlanta, 2001). Member of the American Statistical Association and the Institute of Mathematical Statistics.

Thompson Rivers University Service

Academic Integrity Committee, 2023-present. Open Learning Advisory Committee, 2022-2023.

Integrated Strategic Planning Steering Committee, 2021-2022.

Senior Open Learning Faculty Member, 2018-2021.

Selection Panels for Calculus 1, 2, 3, Discrete Math, and Business Math for the Department of Mathematics and Statistics, 2015-2019.

University of Oregon Service

Statistical/Research Design Support Committee, University of Oregon, 2006-2007.

Undergraduate Program Committee, Lundquist College of Business, 2005-2006.

Doctoral Dissertation Committee, Department of Economics, 2004-2006.

Clark Honors College Thesis Committee, 2006.

Summer Research Award Committee, University of Oregon, 2004-2006.

Undergraduate Core Coordinators Committee, Lundquist College of Business, 2003-2005.

Faculty Search Committee, Department of Accounting, 2002-2003.

Building Transition Committee, Lundquist College of Business, 2002-2003.

Volunteering

Ski resort mountain host, Whitewater Winter Resort, Nelson, BC, 2015-2023. Soccer coach, Nelson Youth Soccer, Nelson, BC, 2009-2020. Ski team treasurer, Whitewater Ski Team, Nelson, BC, 2010-2012, 2016-2020. Movie theatre blogger, Civic Theatre, Nelson, BC, 2015-2020.