



## ANALYZING DIETARY INTAKE DATA, WITH A FOCUS ON ESTIMATING DISTRIBUTIONS OF USUAL INTAKE

JUNE 19, 2018, 9 a.m.-4:30 p.m. EDT  
UNIVERSITY OF WATERLOO

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### SPEAKERS AND ORGANIZERS



**Dr. Karelyn Davis** is a Senior Biostatistician with Health Canada who conducts statistical analysis and research in collaboration with nutritional scientists and policy experts. Prior to joining Health Canada in 2009, Karelyn was a survey methodologist with Statistics Canada and contributed to surveys originating from the fields of education, labour dynamics, justice, and health. She has offered statistical training to government colleagues, and lectured university statistics courses on a part-time basis. Karelyn holds a PhD in Probability and Statistics from Carleton University and is an Adjunct Research Professor in the School of Mathematics and Statistics at Carleton University. Previously, she completed a Master of Science in Statistics and Bachelor of Science Joint Honours in Pure Mathematics and Statistics at the Memorial University of Newfoundland. She is accredited by the Statistical Society of Canada as a Professional Statistician (P.Stat.). In 2004, Karelyn was awarded the Gertrude Cox Scholarship Honourable Mention by the American Statistical Association.



**Dr. Kevin W. Dodd** is a mathematical statistician in the Biometry Research Group at the U.S. National Cancer Institute. His primary research interests are statistical models for dietary intake and physical activity, with special emphasis on population surveillance. He has been instrumental in the development of novel statistical methods for estimating long-term exposure from short-term observations for the past 20 years, beginning with the Iowa State University method for estimating usual nutrient intake distributions and culminating in the more recent National Cancer Institute method for modeling usual intake of episodically-consumed foods. He has authored or co-authored a number of publications on topics including estimating long-term dietary intake from food and supplement sources, analysis of self-report and objective measures of physical activity, and patterns of health behavior. Kevin received his Bachelor of Science from the University of South Alabama and his Master of Science and PhD in Statistics from Iowa State University.



**Dr. Sharon Kirkpatrick** leads a public health nutrition research program at the School of Public Health and Health Systems at the University of Waterloo. Her research primarily focuses on understanding dietary patterns in populations and influences on these patterns, using a systems thinking lens to consider the array of factors at play. Much of her work is aimed at improving methodologies for capturing and analyzing dietary intake data to foster a robust evidence base on the influence of diet on health and the impact of interventions on diet. In addition to her application of cutting-edge statistical techniques to Canadian and U.S. surveillance data, she has contributed to the development of a number of freely-available resources for researchers, including a webinar series on measurement error in dietary data, an online dietary assessment primer, and a web-based dietary assessment tool. Dr. Kirkpatrick holds a PhD in Nutritional Sciences and Master of Health Science in Community Nutrition from the University of Toronto.



**Ms. Cunye Qiao** has been a statistician at the Health Products and Food Branch within Health Canada since September 2006. She has worked on many health-related statistical projects, including analysis of the Canadian Community Health Survey nutrition-focused data (2004 and 2015), as well as DNA microarray data analysis. Cunye has a Master of Science degree in Probability and Statistics from Carleton University. Prior to coming to Canada, she completed her Master of Science and Bachelor of Science degrees in Pure Mathematics at Nankai University, Tianjin, China.