CRAIG P. HUTTON

I am a Senior Behavioural Scientist with the Province of British Columbia's Behavioural Insights Group. My diverse training in experimental psychology, applied statistics, and data science leads me to apply a multidisciplinary and creative approach to doing research. I deeply enjoy solving complex problems and exploring new ideas.

EXPERIENCE

2023 | Present

Senior Behavioural Scientist BC Behavioural Insights Group

- Leading qualitative and quantitative behavioural insights (BI) research projects to address behavioural challenges.
- Developing, testing, and evaluating BI solutions to improve government service accessibility for British Columbians.
- Statistical modelling, hypothesis testing, and machine learning with R.

- Vancouver, BC
- Advising senior executives and stakeholders on research methods to address strategic knowledge gaps.
- Building organizational capacity by training staff and developing data management and analysis processes.
- Research collaborations, science communication, and networking.

Data Scientist

BC Ministry of Social Development & Poverty Reduction Victoria, BC

- Led a portfolio of four research and data science projects for the Ministry of Social Development and Poverty Reduction.
- Established collaborations with BC Stats, the Ministry of Housing, and the BC Centre for Disease Control.
- Population-level predictive modelling and analysis of educational attainment, homelessness, housing instability, poverty, and drug overdose risk.
- Research findings informed the development of the Downtown
 Eastside Response Plan and led to
 \$633 million in funding for homelessness in BC.
- Statistical modelling, hypothesis testing, and machine learning with R.

- Service demand forecasting using time-series analysis and regression modelling in R.
- Advising senior executives and stakeholders on research methods to address strategic knowledge gaps.
- Querying, modifying, and constructing relational databases using SQL and SAS.
- Recruiting, training, and supervising research staff.
- Led a team of three in designing, conducting, and evaluating a randomized controlled trial of a behavioural insights intervention, which doubled uptake of employment services within a month for a random sample of 206 income assistance clients.

CONTACT INFO

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- ✓ twitter.com/huttoncp
- in linkedin.com/in/huttoncp/
- Scraig.rbind.io
- A craig.rbind.io/post/
- **L** +1 250-885-8593 For more information, please contact me via email.

SKILLS

Scientific Research Applied Statistics Machine Learning Project Management Leadership Teaching Public Speaking Software Development Microsoft Office

🗠 DATA ANALYSIS

Data Visualisation (e.g. ggplot2) Linear Models (GLM, GLMM) Additive Models (GAM, GAMM) Time-Series Forecasting CART, Random Forests, XGBoost PCA, MCA, Factor Analysis, FAMD Cluster Analysis (e.g. k-means) Deep Learning (MLP, RNN, CNN) Bayesian Analysis (e.g. brms) Causal Inference (DAGs) Missing Data Imputation (mice)

2020 | 2023

2019- 2020	•	Data Science Fellow BC Ministry of Citizens' Services	♥ Victoria, BC	V CERTIFICATES
_0_0		• Evaluated the economic impacts of • Que		GERTIFICATES Behavioural Insights
		• Developed an R package to proof facilitate exploratory data analysis: rapi	nstructed high throughput data cessing pipelines to facilitate id and reproducible analysis.	University of British Columbia Vancouver, BC 2023
		bcgov.github.io/elucidate/		Future Leaders Program
2018- 2019	•	Postdoctoral Research Fellow Division of Medical Sciences, University	of Victoria 🔮 Victoria, BC	Government of British Columbia Victoria, BC 2022
			ployed a decision tree to dict the concussion status of	Fundamentals of OCAP®
		of concussion symptoms. ove • Collaborated with an international acc	er 450 patients with 95% test euracy. mmunicated research findings	First Nations Information Governance Centre
		and clinicians to study disease to p	project stakeholders in meetings peer-reviewed publications.	Ottawa, ON 2021
		America, England, and Ireland.		
2013- 2018	•	Teaching Assistant Department of Psychology, Neuroscienc University	ce, & Behaviour, McMaster	PROGRAMMING
			♥ Hamilton, ON	R / tidyverse / data.table
		graded assignments for a total of vari	livered 6 guest lectures to a iety of class sizes (8-40+ dents).	SQL / MySQL SAS / SPSS Python / keras h2o / Spark Parallel processing
	R	EDUCATION		git / GitHub / GitLab Bash
2018	•	Ph.D. in Psychology McMaster University	Hamilton, ON	REPRODUCIBLE
		Awarded \$137,500 in competitive scholar		REPORTING
2013	•	Hons. B.Sc. in Biopsychology University of Winnipeg	♥ Winnipeg, MB	R Markdown
	I	Awarded \$7,000 in competitive scholarsh		blogdown Jupiter Notebooks flexdashboards
	R	RECENT TALKS		nexdashboards
2023	•	Improving Employment Service Re Income Assistance Clients in Britis BIG Difference BC	sh Columbia.	
		Https://craig.rbind.io/talks/bigdifference	♥ Vancouver, BC e2023	
2023	•	Risk factors for social assistance reliance after high school. BC Ministry of Social Development and Poverty Reduction -		
		Executive Meeting	♥ Victoria, BC	
			¥ 11000110, 20	

2022	•	Socioeconomic, demographic, and health predic overdose in the BC Provincial Overdose Cohort. BC Centre for Disease Control Grand Rounds • • • https://craig.rbind.io/talks/bccdc2022	-	
2022	•	Socioeconomic, demographic, and health predictors of drug overdose in the BC Provincial Overdose Cohort. Employment and Social Development Canada Victoria, BC		
2020		Social assistance and health in Vancouver's Dov Eastside neighbourhood BC Government Deputy Ministers Board on Integrated		
		COMMUNITY ROLES		
2021- 2023	•	Data Expert in Residence Exchange Lab; BC Public Service	♥ Victoria, BC	
2019- Present	•	Blog Editor & Content Creator Data Science Studio; University of Victoria	♥ Victoria, BC	
		TECHNICAL PAPERS		
2023	•	Predictors of social assistance reliance after high school: a retrospective cohort study of Vancouver secondary school alumni from 2010-2019.		
		Government of British Columbia	Victoria, BC	
		Socioeconomic, health, and demographic predic overdose in British Columbia from 2015-2018.	ctors of drug	
		Government of British Columbia	♥ Victoria, BC	
2022	•	Socioeconomic, health, and academic predictors school graduation in Vancouver from 2000-2009		
		Government of British Columbia	♥ Victoria, BC	
2021	 Social Assistance and Health in Vancouver's Downto Eastside Neighbourhood from 1995-2017. Government of British Columbia 		wntown ♥ Victoria, BC	
	•	8 scientific papers, 175 citations, h-index = 6 craig.rbind.io/scholar • PDFs available upon request	•	

This resume was built with the **pagedown** R package.

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