Dylan Spicker (PhD)

Postdoctoral Fellow

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Education

2018 – 2022	Ph.D., Statistics, University of Waterloo
(July 26, 2022)	Thesis: Generalizations to Corrections of Measurement Error Effects for Dynamic Treatment Regimes
	Supervisors: Grace Yi and Michael Wallace
2017 – 2018	M.Math, Statistics, University of Waterloo
	Masters Essay: Measurement error and personalized medicine: error-prone tailoring covariates in dynamic treatment regimes.
	Supervisor: Michael Wallace
2014 – 2017	B.Comm., Finance, Smith School of Business (Queen's University)

Publications and Presentations

Peer-Reviewed Papers

[1] **Spicker, D**, Wallace, MP. Measurement error and precision medicine: Error-prone tailoring covariates in dynamic treatment regimes. Statistics in Medicine. 2020; 39: 3732– 3755. https://doi.org/10.1002/sim.8690

[2] Jay Liebowitz, Yolande Chan, Tracy Jenkin, **Dylan Spicker**, Joanna Paliszkiewicz, Fabio Babiloni. If numbers could "feel": How well do executives trust their intuition?. VINE Journal of Information and Knowledge Management Systems. 2019. 49(4): 531-545.

Book

[1] Liebowitz, Jay, Chan, Yolande E., Jenkin, Tracy A., **Spicker, Dylan**, Paliszkiewicz, Joanna, Babilioni, Fabio. (2018). How Well Do Executives Trust Their Intuition. Taylor and Francis. Boca Raton, Florida

Preprints (currently under consideration)

[1] **Spicker, Dylan**, Michael Wallace, and Grace Yi. Nonparametric Simulation Extrapolation for Measurement Error Models. arXiv preprint arXiv:2111.02863. 2021.

[2] **Spicker, Dylan**, Michael P. Wallace, and Grace Y. Yi. Generalizations to Corrections for the Effects of Measurement Error in Approximately Consistent Methodologies. arXiv preprint arXiv:2106.07401. 2021.

Presentations and Talks

[1] **Spicker, Dylan**. Nonparametric Simulation Extrapolation for Measurement Error Models. Statistical Society of Canada general meeting (2022, Online)

[2] **Spicker, Dylan**. The Harms of Historical Hyperbole. Statistics and Actuarial Science Student Seminar Series (2021, Waterloo)

[3] **Spicker, Dylan**. Measurement Error Corrections with Non-IID Auxiliary Data. Statistical Society of Canada general meeting (2021, Online)

[4] **Spicker, Dylan**. Dynamic Treatment Regimes and Measurement Error: A non-technical overview (where we mostly talk about video games!). University of Waterloo Undergraduate Mathematics Research Conference. (2019, Waterloo)

[5] **Spicker, Dylan**. Measurement Error in Precision Medicine and Dynamic Treatment Regimes. Statistical Society of Canada general meeting (2019, Calgary)

Selected Honours and Awards

2022 – 2023[†]	StatLab-CANSSI-CRM Post-doctoral Fellowship
2020 – 2022	NSERC Postgraduate Scholarship Doctoral (PGS-D)
2020 (Declined)	Queen Elizabeth II Graduate Scholarship in Science and Technology
2019	Queen Elizabeth II Graduate Scholarship in Science and Technology
2018	Statistics & Actuarial Science Doctoral Entrance Award
2018	Statistics & Actuarial Science Chair's Award
2017, 2018	University of Waterloo Graduate Scholarship
2017	Sutton Scholarship for Higher Education
2021	Statistical Society of Canada SARGC Video Competition. Winning Team (with Melissa Van Bussel).
	"Using Statistics to break down COVID-19 misconceptions"
2020	Statistical Society of Canada Case Studies in Data Analysis Competition. Winning Team (with Melsisa Van Bussel).

"Forecasting iTunes popularity out-of-sample: in-sample validation for longitudinal and matching methods."

| 2019 | CANSSI National Case Study Competition 2019. Regional Winning Team; National Finalist (with Melissa Van Bussel). |

"'SuperLearn'ed Delays: Partial Domain Adaptation in Binary Classification with Complex and Noisy Data."

Academic Appointments

2021, 2022	Sessional Instructor, Statistics, University of Waterloo
2020 – 2022	Research Assistant, Statistics, University of Waterloo
2017	Machine Learning and Data Analyst, Smith School of Business
2015 – 2017	Research Assistant, Computer Science, Database Systems Lab. Queen's University

Courses Taught

| 2022 (Winter) | STAT 437, Methods for Life History Analysis | University of Waterloo |
| 2021 (Winter) | STAT 231, Statistics | University of Waterloo |

Statistical Consulting

| 2021 (Summer) | Web scraping e-commerce data (grocery data). | University of Waterloo |
| 2021 (Winter) | Web scraping e-commerce data (e-cig products). | University of Waterloo |

Teaching Assistant

| 2017 – 2020 | Teaching Assistant, Statistics, University of Waterloo |
| 2016 – 2017 | Teaching Assistant, Computer Science, Queen's University |

Courses

2020 (Fall)	Masters of Actuarial Science (Program)	University of Waterloo
2020 (Winter)	Masters of Actuarial Science (Program)	University of Waterloo
2019 (Fall)	Masters of Actuarial Science (Program)	University of Waterloo
2019 (Spring)	STAT 431, Generalized Linear Models	University of Waterloo

2019 (Spring)	STAT 331, Applied Linear Models	University of Waterloo
2019 (Winter)	STAT 431, Generalized Linear Models	University of Waterloo
2019 (Winter)	STAT 241, Statistics (Advanced Level)	University of Waterloo
2018 (Fall)	STAT 330, Mathematical Statistics	University of Waterloo
2018 (Fall)	STAT 443, Forecasting	University of Waterloo
2018 (Spring)	STAT 337, Intro. to Medical Statistics	University of Waterloo
2018 (Spring)	STAT 333, Applied Probability	University of Waterloo
2018 (Winter)	STAT 441, Classification	University of Waterloo
2018 (Winter)	STAT 443, Forecasting	University of Waterloo
2017 (Fall)	STAT 334, Probability Models for Business	University of Waterloo
2017 (Fall)	STAT 373, Regression and Forecasting Methods in Finance	University of Waterloo
2017 (Fall)	COMM 493[†], Analytics and AI for Business	Queen's University
2016 (Fall)	CISC 490, Deep Analytics using Watson	Queen's University
2015 (Fall)	CISC 490, Deep Analytics using Watson	Queen's University

Leadership and Professional Activities

- Conference Judge, Statistical Society of Canada Student Conference, 2022
- Co-founder, Queen's Data Analytics Association, 2016–2017
- Executive, Queen's Commerce Society, 2014–2017
- Executive Team, "Career Mashup" (Queen's University), 2016