KEN KANGYI PENG

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EDUCATION

PhD in Statistics *2025*
Simon Fraser University, BC, Canada
Supervisors: Dr. X. Joan Hu and Dr. Tim Swartz

MSc in Statistics *2022*
Simon Fraser University, BC, Canada
Supervisors: Dr. Tim Swartz and Dr. Gary Parker
Dr. Gord Sleivert Young Investigator Award (The SPort INnovation (SPIN) Summit)

BSc in Statistics & minor in Mathematics *2020*
Simon Fraser University, BC, Canada
Undergraduate Student Research Awards

EXPERIENCE

Research assistant experience

- University Of Ottawa, Department of Civil Engineering *Jan 2024 - Current*
  Supervision: Dr. Robert Delatolla
- Simon Fraser University, Department of Statistics and Actuarial science, Department of Biomedical Physiology and Kinesiology, Sports Analytics Group *Mar 2020 - Current*
- University of Waterloo, Department of Statistics and Actuarial Science *Jan 2022 - May 2023*
  Supervision: Dr. Charmaine Dean

Teaching assistant experience

Simon Fraser University

- STAT302 Analysis of Experimental and Observational Data *Fall 2023*
- STAT830 Statistical Theory I *Fall 2022*
- STAT261 Laboratory for Introductory R for Data Science *Fall 2021*
- STAT201 Statistics for the Life Sciences *Summer 2021*
- STAT380 Introduction to Stochastic Processes *Spring 2021*
- STAT203 Introduction to Statistics for the Social Sciences *Fall 2020*
- STAT100 Chance and Data Analysis *Fall 2020*

Other professional experience

- **Co-founder & chief data scientist** *Jun 2023 - Current*
  AccMov Health Inc.
- **Sports Analyst** *Jan 2022 - Dec 2023*
  Stathletes
- **Coop data scientist** *Oct 2021 - Dec 2021*
  Public Health Agency of Canada
- **Coop Statistician** *May 2019 - Sep 2019*
  BC Centre for Excellence in HIV/AIDS
- **Coop data scientist** *May 2018 - Dec 2018*
  Statistics Canada

RESEARCH PUBLICATIONS

Peng, K. K., X. Joan Hu, & Tim B. Swartz (2024+). Investigating time to corner kick in soccer by analysis of event history data. Under review.

Peng, K. K., Brodie, R. T., Swartz, T. B., & Clarke, D. C. (2023). Bayesian inference of the impulse-response model of athlete training and performance. International Journal of Performance Analysis in Sport, 1-16.

Peng, K. K., Renouf, E. M., Dean, C. B., Hu, X. J., Delatolla, R., & Manuel, D. G. (2023). An exploration of the relationship between wastewater viral signals and COVID-19 hospitalizations in Ottawa, Canada. Infectious Disease Modelling.

Peng K, Clarke DC, Swartz TB. Bayesian approaches for critical velocity modelling of data from intermittent efforts. International Journal of Sports Science & Coaching. 2022;17(4):868-879. doi:10.1177/17479541221100311

PRESENTATIONS

Invited presentations at conference

- 2024 JSM, Newly developed point process models for repeated events, Portland, Oregon, US.
- 2024 WNAR, Sparse modeling for biomedical data, Fort Collins, Colorado, US.
- 2023 WNAR, Statistics in Biosciences (SIBS): Real world challenges and recent methodological developments, Anchorage, Alaska, US.
- 2022 BIRS-CMO 22w5184: Statistical Challenges in the Identification, Validation, and Use of Surrogate Markers, Banff International Research Station, Remote.

Presentations in workshops & seminars

- 2022-2023 Colloquium on Mathematics for Public Health, The Fields Institute for Research in Mathematical Sciences, Remote.
- 2022 Mathematics for Public Health Festival (MfPHest), Poster presentation, The Fields Institute for Research in Mathematical Sciences, Toronto, ON, Canada.
- 2021 CANSSI CRT Showcase event, Canadian Statistical Sciences Institute, Remote.
- 2021 SSC annual meeting, Poster presentation, Statistical Society of Canada, Remote.
- 2020 The SPort INnovation (SPIN) Summit, Own The Podium, Remote.

OTHER ACTIVITIES

Paper reviewer, Canadian Journal of Statistics.

Next generation member, The Fields Institute for Research in Mathematical Sciences.

Student member, Western North American Region of The International Biometric Society.

Student member, International Chinese Statistical Association.

Student member, Statistical Society of Canada.

Group meeting Coordinator, Dr. Joan Hu's Lab.