

Jenkin Tsui

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Nationality: Canadian, British Nationals

Current position

2020-present *Predoctoral Research Scientist*, BC Cancer Research Centre, Vancouver, Canada
2020-present *Graduate Teaching Assistant*, University of British Columbia, Vancouver, Canada

Areas of specialisation

Bayesian modelling; Spatial statistical methods; Single-cell RNA-seq analyses; object detection; microscopy imaging

Research and Teaching appointments held

2019 IMS Research Fellow, RIKEN IMS, Yokohama, Japan (mentor: Dr. Michiel de Hoon)
2018-2019 Graduate Teaching Assistant, Yale University, New Haven, United States
2016-2018 Teaching Assistant, University of Toronto, Toronto, Canada
2017 Mathematics and Statistics Tutor, University of Michigan, Ann Arbor, United States
2017 Mathematical Statistician, Statistics Canada, Ottawa, Canada (mentor: Dr. Abel Dasylva)
2015-2016 Research Assistant, University of Toronto, Toronto, Canada (mentor: Dr. Phani Radhakrishnan)

Education

2020-present PhD in Bioinformatics, University of British Columbia (supervisor: Dr. Andrew Roth)
2018-2019 MA in Statistics, Yale University (advisor: Dr. David Pollard)
2017 NON-DEGREE in Statistics, University of Michigan
2013-2018 BSC in Mathematics, University of Toronto (mentors: Dr. Michael Evans; Dr. Lisa Jeffrey; Dr. Giulio Tiozzo; Dr. Javed Tomal)

Grants, honours & awards

05-2020	EMBL-EBI Predoctoral Fellowship Grant, amount \$1, 000GBP pcm (start date: 05-2021)
05-2020	UBC Four Year Doctoral Fellowship, amount \$32, 000CAD p.a. (start date: 09-2020)
03-2019	RIKEN IMS Fellowship Grant, amount \$6, 780USD (06-2019 - 08-2019)
06-2018	UTSC Senior Dean's List
03-2018	UTSC Academic Travel Fund, amount \$1, 500CAD (01-2018)
01-2018	UTSC Mathematics Department Travel Fund, amount \$250CAD (01-2018)
09-2017	University of Toronto International Exchange Award, amount \$6, 000CAD (09-2017 - 12-2017)
03-2017	Fulbright Canada Killam Fellowship, amount \$5, 750CAD (09-2017 - 12-2017)
01-2017	UTSC Mathematics Department Travel Fund, amount \$250CAD (01-2017)
10-2016	UTSC Junior Dean's List

Publications & talks

PREPRINTS

2018	Tsui, J. (2018). "Ultrahigh Dimensional Variable Selection for Mammalian Eye Gene Expression".
2017	Tsui, J. , Dasylyva, A. and Chu, K. (2017). "Optimal Estimating Equation for Logistic Regression with Linked Data", arXiv:1707.05825.

INDUSTRIAL RESEARCH REPORTS

2015	Tsui, J. (2015). "Technical Report on Time Series Analysis of Fraudulent Behaviors related to Electronic Frauds at Bank of Nova Scotia", Technological Crimes and Forensic Department, Security and Investigation Unit, Bank of Nova Scotia.
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CONFERENCE PRESENTATION

01-2019	"Measuring Statistical Evidence Using Relative Belief", MAA General Contributed Paper Session on Probability and Statistics, Joint Mathematics Meeting 2019, Baltimore, MD, United States, January 14-19, 2019. Abstract no. 1145-vt-834.
01-2018	"Optimal Estimating Equation for Logistic Regression with Linked Data", MAA General Contributed Paper Session on Probability and Statistics, Joint Mathematics Meeting 2018, San Diego, CA, United States, January 8-13, 2018. Abstract no. 1135-vt-138.
07-2017	"Optimal Estimating Equation for Logistic Regression with Linked Data", Canadian Undergraduate Mathematics Conference, Montreal, QC, Canada, July 19-23, 2017.

SEMINAR SERIES

01-2017	"Measuring Statistical Evidence Using Relative Belief", Seminars in Undergraduate Mathematics in Montreal, McGill University, Montreal, QC, Canada, January 13-15, 2017.
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POSTER SESSIONS

- 04-2018 "Optimal Estimating Equation for Logistic Regression with Linked Data", Michigan Student Symposium for Interdisciplinary Statistical Sciences, University of Michigan, Ann Arbor, MI, United States, April 2-3, 2018.

Teaching

- Fall 2020 STAT460/560: (Graduate) Statistical Inference I, UBC (size: 40; instructor: Dr. Ruben Zamar)
Winter 2020 STAT300: Intermediate Statistics, UBC (size: 72; instructor: Dr. Lasantha Premarathna)
Winter 2019 S&DS100: Introductory Statistics, Yale University (size: 36; instructor: Dr. David Brinda)
Fall 2018 S&DS103: Introductory Statistics, Yale University (size: 36; instructor: Dr. Jonathan Reuning-Scherer)
Winter 2018 MATB42: Multivariable Calculus II, University of Toronto (size: 105; instructor: Dr. Eric Moore)
Winter 2018 STAB23: Social Statistics, University of Toronto (size: 26; instructor: Dr. Javed Tomal)
Winter 2018 STAB22: Introductory Statistics, University of Toronto (size: 33; instructor: Dr. Caren Hasler)
Winter 2017 MATB42: Multivariable Calculus II, University of Toronto (size: 70; instructor: Dr. Eric Moore)
Winter 2017 MATA37: Honors Calculus II, University of Toronto (size: 36; instructor: Dr. Kathleen Smith)
Fall 2016 MATB41: Multivariable Calculus I, University of Toronto (size: 70; instructor: Dr. Eric Moore)
Fall 2016 STAB22: Introductory Statistics, University of Toronto (size: 66; instructor: Dr. Mahinda Samarakoon)
Fall 2016 STAB57: Mathematical Statistics, University of Toronto (size: 33; instructor: Dr. Javed Tomal)
Winter 2016 STAB22: Introductory Statistics, University of Toronto (size: 66; instructor: Dr. Mahinda Samarakoon)
Winter 2016 MATA37: Honors Calculus II, University of Toronto (size: 36; instructor: Dr. Kathleen Smith)

Service to the profession

- 2020-present Assistant Vice President, Academics, Interdisciplinary Graduate Student Network
2020-present Social Coordinator, Bioinformatics Graduate Program, UBC
2020-present Yale Alumni Interviewer, Yale Alumni Schools Committee, Yale College Undergraduate Admissions
2020-present President, Yale Club of British Columbia, Yale Alumni Association
2019 Co-founder and Program Director, Asian Graduate Network, Yale University
2014-2017 Mathematics-Statistics Lecturer, Association of Mathematical And Computer Science Students, UTSC
2016 Acting President, Association of Mathematical And Computer Science Students, UTSC
2015-2016 President, Association of Mathematical And Computer Science Students, UTSC
2014 Vice President - Academics, Association of Mathematical And Computer Science Students, UTSC