

ERIC STUTHEIT-ZHAO, MD, PhD

Radiation Oncology Resident, Postdoctoral
Fellow, Data Scientist

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Clinician-scientist focused on translational genomics, bioinformatics,
and precision oncology.

SCHOLAR

Education/Training

Jul 2020 – Jun 2026	Resident Physician, Radiation Oncology. The University of Toronto 5-year clinical training program in the University of Toronto Department of Radiation Oncology. Planned completion in June 2026.
Jul 2021 – Jul 2024	Postdoctoral Fellow. CRI Irvington Postdoctoral Fellowship in immuno-oncology research.
Jul 2021 – Jul 2023	Postdoctoral Fellow, PMH/DKFZ International Clinician Scientist Princess Margaret Hospital (Toronto) and DKFZ/German Cancer Research Centre (Heidelberg). Supervised by Dr. Trevor Pugh, Dr. Scott Bratman, and Dr. Stefan Pfister.
Aug 2013 – Jun 2020	MD. The University of British Columbia.
Aug 2013 – Jun 2020	PhD, Bioinformatics. The University of British Columbia MD/PhD program, under the bioinformatics graduate program. My dissertation was entitled "Clinical Actionability and Evolution of Mutational Processes in Metastatic Cancer."
Sep 2009 – Jun 2013	Bachelor of Science Honours Physiology, Minor in Physics. The University of British Columbia.

Major Research Fellowships Grants

2025	Jan	Hold'em for Life Research Fellowship. FELLOWSHIP GRANT Open to University of Toronto residents and clinical fellows pursuing cancer research. Provides \$50 000 salary support for dedicated research training during residency/fellowship.
2021	Jul	Princess Margaret Postdoctoral Fellowship. FELLOWSHIP GRANT Award offered but declined on account of having already accepted the CRI postdoctoral fellowship.
	Jun	Cancer Research Institute Irvington Postdoctoral Fellowship. FELLOWSHIP GRANT 2-3 year fellowship providing career training to the most promising young scientists in basic and tumor immunology.
		DKFZ-PM International Clinician-Scientist FELLOWSHIP GRANT Award to promote transatlantic professional training and translational research. Includes a 1-year site visit to DKFZ (German Cancer Centre) to carry out a collaborative research project between Dr. Trevor Pugh (UHN) and Dr. Stefan Pfister (DKFZ).
2015	May	Vanier Canada Graduate Scholarship FELLOWSHIP GRANT \$150 000. Three-year scholarship to attract & retain world class graduate students who demonstrate leadership, research potential, and academic excellence.
2014	Apr	CIHR Canada Graduate Scholarship - Master's FELLOWSHIP GRANT \$17 500. Research stipend for 1 year of a master's or PhD program, awarded in a national competition by the Canadian Institutes for Health Research.

2013 Sep **UBC 4 Year Doctoral Fellowship** FELLOWSHIP GRANT
\$72 000. PhD research stipend award.

Research Grant Funding

2025 Jul **CIHR Project Grant - TITRATE study.** CO-INVESTIGATOR
\$1.4 million. As a post-doctoral fellow, I took a leading role in conceptualizing and writing this CIHR project grant, and associated clinical trial protocol, on which I was listed as a co-investigator, and successfully obtained major grant funding. The project title was "The TITRATE (Tailored Intensity of Treatment with Radio(chemo)therapy After Timely Evaluation) study - Towards personalized de-escalated multimodal therapy for oropharynx cancer.

Apr **ASCO Conquer Cancer Young Investigator Award** PRINCIPAL
\$50,000. Provides funding to promising investigators as they transition from a fellowship program to a faculty appointment. This grant supported the launch of the TITRATE clinical trial, which will evaluate the use of significantly de-escalated (chemo)radiotherapy in oropharynx cancer, using ctDNA to guide the use of subsequent surgery.

2022 Dec **Princess Margaret Catalyst Grant** CO-INVESTIGATOR
\$100,000. This grant helped to fund the research initiative called "Accelerating Clinical Translation of Non-invasive Imaging and Molecular Biomarkers" (ACT-NIMBly), a project which I conceived with my supervisor Dr. Scott Bratman. ACT-NIMBly leverages multi-modal analysis of imaging and circulating tumour biomarkers to perform real-time integrative recurrence risk updating during the course of radiotherapy.

Sep **Yamana Gold Discovery to Impact Grant** PRINCIPAL
\$300,000. This grant funded my independent-conceived post-doctoral fellowship research under PI Dr. Trevor Pugh. Other co-investigators included Dr. Gelareh Zadeh, Dr. Federico Gaiti, and Dr. Stefan Pfister. The funded project spearheads the use of single cell methylation analysis to facilitate immune analysis in brain tumours. We propose to leverage immune inference for the analysis of large scale tumour methylation and to develop novel liquid biopsy biomarkers.

Other Academic Awards

2025 Aug **RSNA Roentgen Research Award** AWARD
This award allows residency program directors and department chairs to recognize= outstanding residents and fellows who've advanced radiologic research.

2024 Jan **Joseph M. West Family Memorial Fund Award.** AWARD
Recognizes research potential in a University of Toronto Resident and provides scholarship funding to support research activities.

2023 Oct **Bernard J. Cummings Award for Research Excellence.** AWARD
Recognizes a UT-DRO trainee who demonstrates sustained excellence in research, with potential for strong impact in the field of Radiation Medicine.

2022 Jun **Chair's Award for Academic Excellence in Research** AWARD
Award for topic academic research project presented at the annual research day of the University of Toronto Department of Radiation Oncology.

2021 Jul **Temerty Faculty of Medicine Postgraduate Medical Education Research Award.** RESEARCH SCHOLARSHIP
Awards to provide financial assistance to postgraduate trainees engaged in medical research.

2020 Sep **The Strategic Training in Transdisciplinary Radiation Science for the 21st Century (STARS21)** RESEARCH SCHOLARSHIP
\$2000. Award to recognize and support trans-disciplinary research.

Aug **Margaret Patterson Memorial Award in Medicine.** AWARD
Scholarship endowed by Captain C.Y. Wu and Dr. C.H. Wu and augmented through a bequest by Irene R. Brown in memory of Margaret Patterson. Offered to a student exhibiting a special interest in the study and treatment of cancer.

2019 Apr **Finalist, Governor General's Gold Medal** AWARD
Finalist (top 6) among 500 doctoral students across all UBC Faculties. Chosen as the top graduate student within the Faculty of Medicine. One gold medal is awarded annually to the student who has achieved the most outstanding academic record as a doctoral student.

2018 May **BC Cancer Research Centre Lloyd Skarsgard Research Excellence Award.** AWARD
Award for the top PhD dissertation and to honour exceptional leadership pursuits.

Leadership Awards

2024	Jun	Radiation Oncology Residency Advocacy & Mentorship Award. AWARD	Recognizes excellence in mentorship of junior trainees and peers and advocacy within the Radiation Oncology Residency Program at the University of Toronto.
2019	May	UBC Medical Alumni Association Award AWARD	\$500. This inaugural award honours two medical students (one in year 1 or 2 and one in year 3 or 4) who demonstrate excellence in leadership by engaging and guiding others in promoting a responsible and evolving medical student community and/or health care system.
2018	Sep	Canadian Medical Hall of Fame Award AWARD	\$5000. Award for outstanding potential healthcare leaders and innovators who show perseverance, collaboration, and an entrepreneurial spirit. Awarded to one student per medical school. Details at http://www.cdnmedhall.org/2018awardrecipients .
2014	Mar	UBC Alumni Association Award. AWARD	\$1850. Awarded annually to two students who have demonstrated strong leadership at UBC and within Greater Vancouver.

Travel/Conference Awards

2025	Sep	Book Prize - Biology and Technology at the 2024 CARO ASM. CONFERENCE PRIZE	For best presentation at the Canadian Association of Radiation Oncology conference in the topics of biology and technology.
2024	Oct	ASTRO Top Oral Abstract Award. CONFERENCE PRIZE	Conference award for submitting a top trainee abstract at the 2024 ASTRO Conference.
	Sep	CARO Book Prize CONFERENCE PRIZE	
2023	Sep	Best Oral Presentation - Canadian Association of Radiation Oncology. CONFERENCE PRIZE	Conference award for top oral presentation from a radiation oncology resident at the 2023 CARO conference.
2022	Oct	ASTRO Top Oral Abstract Award. CONFERENCE PRIZE	Conference award for submitting a top trainee abstract at the 2022 ASTRO Conference.
		Physics Science Highlights. CONFERENCE PRIZE	Our 2022 ASTRO abstract "Daily Assessment of On-Treatment Tumor Regression by Cone Beam CT as a Prognostic Dynamic Biomarker in Nasopharyngeal Cancer" was one of five abstracts, selected from over 262 submitted abstracts and 54 oral presentations to be highlighted as an example of an impressive scientific contribution.
	Aug	ESMO Congress Merit Award. CONFERENCE PRIZE	Conference award for submitting a top trainee abstract at the 2022 ESMO congress.
2019	Mar	John Bosdet Travel Award TRAVEL AWARD	
2018	Aug	Canadian Cancer Society Research Institute (CCSRI) Travel Award TRAVEL AWARD	\$1000. Travel award to support attendance at a cancer research conference.
	Mar	Translational Genomics Cluster (TGC) Trainee Collaboration & Travel Award TRAVEL AWARD	\$2500. Travel award to enable development and/or expansion of collaborations with national and international researchers.
2017	Mar	Top Poster Prize CONFERENCE PRIZE	Bioinformatics, Integrated Oncology, Genome Science & Technology Research Day (BIG).
	Feb	John Bosdet Travel Award. TRAVEL AWARD	\$1500. Award to support trainee conference travel.

Peer-Reviewed Journal Articles

2026	1.	Lucas Penny, <u>Eric Zhao</u> , Birgitta E. Michels, Fabian Rosing, ... Lillian Siu, Tim Waterboer, Geoffrey Liu, Bratman, Scott. <i>HPV Serology and Circulating Viral DNA for Detection, Genotyping, and Measurement of Disease Burden in Oropharyngeal Cancer.</i> Accepted to Int. J. Cancer (2026); CO-AUTHOR
	2.	Philipp Sievers, Natalie Berghaus, Arnault Tauziède-Espariat, ... <u>Eric Stutheit-Zhao</u> , ... Stefan Pfister, Pieter Wesseling, Andreas von Deimling, Pascale Varlet, and Felix Sahm. <i>Distinct molecular subgroups in pediatric and young-onset meningiomas require age-adapted risk stratification.</i> Accepted to Nature Communications (2026); CO-AUTHOR
Feb	3.	Yong Zeng, Dory D. Abelman, Althaf Singhawansa, ... <u>Eric Stutheit-Zhao</u> , ... Scott V. Bratman, Mathieu Lupien, Trevor J. Pugh, Housheng Hansen He. <i>A pan-cancer compendium of 1,294 plasma cell-free DNA methylomes and fragmentomes.</i> Nature Cancer. (2026); CO-AUTHOR

		4.	Eric Y. Stutheit-Zhao, Yongqi Zhong, Collin A. Melton, Elizabeth Lightbody, ... Daniel De Carvalho, Anne-Renee Hartman, Lillian L. Siu, Enrique Sanz Garcia. <i>Clinical validation of a tissue-agnostic genome-wide methylome enrichment assay to monitor response to pembrolizumab</i> . npj Precision Oncology (2026) ; PRIMARY AUTHOR
		5.	Sybrein L.N. Maas, Yiheng Tang (co-primary), <u>Eric Stutheit-Zhao (co-primary)</u> , Ramin Rahmanzade (co-primary), Christina Blume, ..., Volker Hovestadt, Moritz Gerstung, Matthias Schlesner, The German Aggressive Meningiomas Consortium (KAM), Felix Sahm. <i>A microenvironment-determined risk continuum replaces subtyping in meningioma and reveals determinants of machine learning-based tumour classification</i> . Nat Genetics (2026) ; PRIMARY AUTHOR
2025	May	6.	Maximilian Y Deng, Sybrein L N Maas, Günes Anil, Philipp Sievers, Jonathan Lischalk, <u>Eric Zhao</u> , Sophie Rauh. <i>Postoperative radiotherapy in subtotaly-resected recurrent WHO grade 1 meningiomas with intermediate-/high-risk molecular profiles</i> . Neuro-Oncology. (2025) ; CO-AUTHOR
	Mar	7.	Roland Imle, Daniel Blösel, Felix K.F. Kommoss, <u>Eric Stutheit-Zhao</u> , Robert Autry, ... Patrick Günther, Martin Sill, Kevin B. Jones, Stefan M. Pfister, Ana Banito. <i>Somatic gene delivery for flexible in vivo modeling of high-risk sarcoma</i> . Nature Communications (2025) ; CO-AUTHOR
2024	Jun	8.	<u>Eric Y. Stutheit-Zhao</u> , Enrique Sanz-Garcia (co-primary), Zhihui Liu, Derek Wong, ... Philip Awadalla, Scott V. Bratman, Pamela S. Ohashi, Trevor J. Pugh, Lillian L. Siu. <i>Early changes in tumor-naïve cell-free methylomes and fragmentomes predict outcomes in patients with solid tumors treated with pembrolizumab</i> . Cancer Discovery (2024) ; 14(6):1048-1063. doi: 10.1158/2159-8290.CD-23-1060. PMID: 38393391 PRIMARY AUTHOR
2023	Sep	9.	Derek Wong, Ping Luo, Leslie Oldfield, Haifan Gong, Ledia Brunga, Ron Rabinowicz, ... <u>Eric Zhao</u> , ... David Malkin, Raymond H Kim, Trevor J Pugh. <i>Early Cancer Detection in Li-Fraumeni Syndrome with Cell-Free DNA</i> . Cancer Discovery (2023) ; 14(1):104-119. doi: 10.1158/2159-8290.CD-23-0456. PMID: 37874259 CO-AUTHOR
	Jul	10.	Yong Zeng, Ye Wenbin, <u>Eric Y. Stutheit-Zhao</u> , Ming Han, Scott V. Bratman, Trevor J. Pugh, Housheng Hansen He. <i>MEDIPIPE: an automated and comprehensive pipeline for cfMeDIP-seq data quality control and analysis</i> . Bioinformatics (2023) ; 39(7):btad423. doi: 10.1093/bioinformatics/btad423. PMID: 37402621 CO-AUTHOR
	Jun	11.	Anna S Kolodziejczak, Lea Guerrini-Rousseau, Julien Masliah Planchon ... Robert J. Autry, <u>Eric Zhao</u> , Kristian W Pajtlar, Stefan M Pfister, Franck Bourdeaut, Till Milde. <i>Clinical outcome of pediatric medulloblastoma patients with Li-Fraumeni syndrome</i> . Neuro Oncol (2023) ; 25(12):2273-2286. doi: 10.1093/neuonc/noad114. PMID: 37379234 CO-AUTHOR
	Jan	12.	Derek Wong, Ping Luo, Nadia Znassi, ... <u>Eric Stutheit-Zhao</u> , ... Marcus Butler, and Trevor Pugh. <i>Integrated, Longitudinal Analysis of Cell-Free DNA in Uveal Melanoma</i> . Cancer Research Communications (2023) ; 3(2):267-280. doi: 10.1158/2767-9764.CRC-22-0456. PMID: 36860651 CO-AUTHOR
2022	Jan	13.	Enrique Sanz Garcia, <u>Eric Y. Zhao*</u> (co-primary), Scott V. Bratman, Lillian Siu. <i>Monitoring and Adapting Cancer Treatment Using Circulating Tumor DNA Kinetics: Current Research and Challenges</i> . Science Advances (2022) ; 8(4):eabi8618. doi: 10.1126/sciadv.abi8618. PMID: 35080978 PRIMARY AUTHOR
2020	May	14.	<u>Eric Y. Zhao</u> , Scott V. Bratman. <i>Emerging Precision Oncology Applications of Liquid Biopsy using Circulating Tumor DNA and Methylome Profiling</i> . Clinical Oncology (2020) ; 32(10):626-631. doi: 10.1016/j.clon.2020.05.022. PMID: 32586654 PRIMARY AUTHOR
		15.	Katherine Dixon, Sean Young, Yaoqing Shen, My Linh Thibodeau, Alexandra Fok, Erin Pleasance, <u>Eric Y. Zhao</u> , Martin Jones, ..., Aly Karsan, Marco Marra, Janessa Laskin, Howard Lim, Kasmintan A. Schrader. <i>Establishing a framework for the clinical translation of germline findings in precision oncology</i> . JNCI Spectrum (2020) ; 4(5):pkao045. doi: 10.1093/jncics/pkao045. PMID: 33134827 CO-AUTHOR
	Apr	16.	Erin Pleasance, Emma Titmuss, Laura Williamson, Harwood Kwan, <u>Eric Zhao</u> , ... Howard Lim, Daniel Renouf, Steven Jones, Janessa Laskin, and Marco Marra. <i>Pan-cancer analysis of advanced patient tumors reveals interactions between therapy and genomic landscapes</i> . Nature Cancer (2020) ; 1(4):452-468. doi: 10.1038/s43018-020-0050-6. PMID: 35121966 CO-AUTHOR
2019	Oct	17.	<u>Eric Y. Zhao</u> , Irene M. Vavasour, Marjan Zakeri, Michael R. Borich, Cornelia Laule, Alexander Rauscher, Anthony Traboulsee, David K. B. Li, Lara A. Boyd, Alex L. MacKay. <i>Myelin water imaging and transcranial magnetic stimulation suggest structure-function relationships in multiple sclerosis</i> . Frontiers in Physics (2019) ; Vol 7. doi: 10.3389/fphy.2019.00141. PRIMARY AUTHOR
	Sep	18.	Yaoqing Shen, Cameron J. Grisdale, Sumaiya A. Islam, Pinaki Bose, Jake Lever, <u>Eric Y. Zhao</u> , ... David R. Kaplan, J. Gregory Cairncross, Marco A. Marra, and Steven J. M. Jones. <i>Comprehensive genomic profiling of matched glioblastoma tumours, cell-lines, and xenografts reveals genomic stability and adaptation to disparate growth environments</i> . Proceedings of the National Academy of Science (2019) ; 116(38):19098-19108. doi: 10.1073/pnas.1813495116. PMID: 31471491 CO-AUTHOR
	Jun	19.	Xiaolan Feng, Erin D. Pleasance* (co-primary), <u>Eric Y. Zhao*</u> (co-primary), Tony Ng* (co-primary), Jasleen Grewal, Nisreen Mohammad, Sara Taylor, Christine Simmons, ..., Steven J. M. Jones, Marco A. Marra, and Janessa Laskin. <i>Therapeutic Implication of Genomic Landscape of Adult Metastatic Sarcoma</i> . JCO Precision Oncology (2019) ; 3:1-25. doi: 10.1200/PO.18.00325. PMID: 35100702 PRIMARY AUTHOR
		20.	Laura M. Williamson, Michael Steel, Jasleen K. Grewal, My Linh Thibodeau, <u>Eric Y. Zhao</u> , ..., Janessa Laskin, Daniel J. Renouf, David F. Schaeffer, Steven J. M. Jones. <i>Genomic characterization of a well-differentiated grade 3 pancreatic neuroendocrine tumor</i> . Molecular Case Studies (2019) ; CO-AUTHOR

- May 21. Jake Lever, [Eric Y. Zhao](#), Jasleen Grewal, Martin R. Jones, Steven J. M. Jones. *CancerMine, A literature-mined resource for drivers, oncogenes and tumor suppressors in cancer*. **Nature Methods** (2019); 16(6):505-507. doi: 10.1038/s41592-019-0422-y. PMID: 31110280 CO-AUTHOR
- Apr 22. My Linh Thibodeau, Eric Y. Zhao, Caralyn Reisle, Carolyn Ch'ng, Hui-li Wong, ..., David Huntsman, David F. Shaeffer, Janessa Laskin, Marco A. Marra, Daniel J. Renouf, Steven J. M. Jones, Kasmintan A. Schrader. *Base excision repair deficiency signatures implicate germline and somatic MUTYH aberrations in pancreatic ductal adenocarcinoma and breast cancer oncogenesis*. **Molecular Case Studies** (2019); 5(2):a003681. doi: 10.1101/mcs.a003681 CO-AUTHOR
- Mar 23. [Eric Y. Zhao](#), Kevin Nguyen, Alvin Qiu, Jesse Tinker, Daphne Lu, John Liu. *Coordinating Student Academic Advocacy in the UBC Medical Undergraduate Program through the Medical Education Committee (MEC)*. **UBC Medical Journal** (2019); 2019: 10.2 (36-38) PRIMARY AUTHOR
- Jan 24. Bruno M. Grande, Daniela S. Gerhard, Aixiang Jiang, ... [Eric Y. Zhao](#) ..., Marco A. Marra, Ryan D. Morin, Louis M. Staudt. *Genome-wide discovery of somatic coding and non-coding mutations in pediatric endemic and sporadic Burkitt lymphoma*. **Blood** (2019); 133(12):1313-1324. doi: 10.1182/blood-2018-09-871418. PMID: 30617194 CO-AUTHOR
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- 2018 Oct 25. Hui-li Wong, [Eric Y. Zhao](#)* (co-primary), Martin R. Jones, Caralyn R. Reisle, ... Steven J. M. Jones, Kasmintan Schrader, David F. Schaeffer, Daniel J. Renouf. *Temporal dynamics of genomic alterations in a BRCA1 germline mutated pancreatic cancer with low genomic instability burden but exceptional response to FOLFIRINOX*. **JCO Precision Oncology** (2018); 2:PO.18.00057. doi: 10.1200/PO.18.00057. PMID: 32913994 PRIMARY AUTHOR
26. Sarah E. Arthur, Aixiang Jiang, Bruno M. Grande, ... [Eric Y. Zhao](#), ... Christian Steidl, David W. Scott & Ryan D. Morin. *Genome-wide discovery of somatic regulatory variants in Diffuse Large B-cell Lymphoma*. **Nature Communications** (2018); 9(1):4001. doi: 10.1038/s41467-018-06354-3. CO-AUTHOR
- Apr 27. Manik Chahal, Erin Pleasance, Jasleen Grewal, [Eric Zhao](#), ... Steven JM Jones, Marco A Marra, Janessa Laskin. *Personalized oncogenomic analysis of metastatic adenoid cystic carcinoma: using whole-genome sequencing to inform clinical decision-making*. **Molecular Case Studies** (2018); 4(2):a002626. doi: 10.1101/mcs.a002626. PMID: 29610392 CO-AUTHOR
- Mar 28. My Linh Thibodeau, Melika Bonakdar, [Eric Zhao](#), Karen Mungall, Caralyn Resile, ... Kasmintan A. Schrader, Steven J. M. Jones. *Whole genome and whole transcriptome genomic profiling of a metastatic eccrine porocarcinoma*. **NPJ Precision Oncology** (2018); 2(1):8. doi: 10.1038/s41698-018-0050-5. PMID: 29872726 CO-AUTHOR
- Feb 29. Hui-li Wong, Kevin C Yang, [Eric Y. Zhao](#), ... David F. Shaeffer, Sharon M. Gorski, Daniel J. Renouf. *Molecular characterization of metastatic pancreatic neuroendocrine tumors (PNETs) using whole-genome and transcriptome sequencing*. **Molecular Case Studies** (2018); 4(1):a002329. doi: 10.1101/mcs.a002329. PMID: 29092957 CO-AUTHOR
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- 2017 Dec 30. [Eric Y. Zhao](#), Yaoqing Shen, Erin D. Pleasance, ... Janessa Laskin, Marco A. Marra, Steven J. M. Jones. *Homologous Recombination Deficiency and Platinum-based Therapy Outcomes in Advanced Breast Cancer*. **Clinical Cancer Research** (2017); 23(24):7521-7530. doi: 10.1158/1078-0432.CCR-17-1941. PMID: 29246904 PRIMARY AUTHOR
- Nov 31. Meghan Smith, [Eric Zhao](#), Connor Hawkins, Megan Lucey, Jordan Yeo, Kelly Zerr. *MIND Speaks Up: an online platform for youth mental health*. **UBC Medical Journal** (2017); 9.2 (42-43) CO-AUTHOR
- Sep 32. Celia Siu, Sam Wiseman, ... [Eric Y. Zhao](#) ... Marco A. Marra, Martin Hirst, Steven J. M. Jones. *Characterization of the Human Thyroid Epigenome*. **Journal of Endocrinology** (2017); 235(2):153-165. doi: 10.1530/JOE-17-0145. PMID: 28808080. CO-AUTHOR
- May 33. My Linh Thibodeau, Caralyn Reisle, [Eric Y. Zhao](#), ... Janessa Laskin, Marco A Marra, Kasmintan A. Schrader, Steven J. M. Jones. *Genomic profiling of pelvic genital type leiomyosarcoma in a woman with a germline CHEK:c.delC mutation and a concomitant diagnosis of metastatic invasive ductal breast carcinoma*. **Molecular Case Studies** (2017); 3(5):a001628. doi: 10.1101/mcs.a001628. PMID: 28514723. CO-AUTHOR
- Mar 34. Wendie D den Brok, Kasmintan A. Schrader, Sophie Sun, Anna V. Tinker, [Eric Y. Zhao](#), Samuel Aparicio, Karen A. Gelmon. *Homologous recombination deficiency in breast cancer - a clinical review*. **JCO Precision Oncology** (2017); 1:1-13. doi: 10.1200/PO.16.00031. PMID: 35172494 CO-AUTHOR
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- 2016 Oct 35. Brandon S. Sheffield, Regan Fulton, Steven E. Kalloger, ... [Eric Y. Zhao](#) ... Cheryl Ho, Diana N. Ionescu. *Investigation of PD-L1 Biomarker Testing Methods for PD-1 Axis Inhibition in Non-squamous Non-small Cell Lung Cancer*. **J Histochem Cytochem** (2016); Oct;64(10):587-600. doi: 10.1369/0022155416665338. PMID: 27148575 CO-AUTHOR
36. Ronald Xie, Sharon Yang, Felix Ma, [Eric Y. Zhao](#). *The role of BDNF in Huntington Disease: A targeted analysis of 12 microarray studies*. **UBC Medical Journal**. (2016); 8.1 (17-22) SUPERVISING AUTHOR
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- 2015 Oct 37. Janessa Laskin, Steven Jones, Samuel Aparicio, Stephen Chia, Carolyn Ch'ng, Rebecca Deyell, ... [Eric Y. Zhao](#), Stephen Yip, Marco A. Marra. *Lessons learned from the application of whole genome analysis to the treatment of patients with advanced cancers*. **Molecular Case Studies** (2015); Oct;1(1):a000570. doi: 10.1101/mcs.a000570. PMID: 27148575 CO-AUTHOR
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- 2011 Aug 38. Ryan D. Morin, Maria Mendez-Lago, Andrew J. Mungall, ... [Eric Y. Zhao](#), ... Steven J. M. Jones, Joseph M. Connors, Martin Hirst, Randy D. Gascoyne, Marco A. Marra. *Frequent mutation of histone-modifying genes in Non-Hodgkin's lymphoma*. **Nature** (2011); 476, 298-303 CO-AUTHOR

Invited Articles

2019	Mar	Whole Genome Sequencing of Cancer PRIMARY AUTHOR Cold Spring Harbor Perspectives - Book Chapter. Eric Y. Zhao , Martin R. Jones, Steven J. M. Jones.
2016	Oct	Scientific Overview: CSCI- CITAC Annual General Meeting and Young Investigators' Forum 2015 PRIMARY AUTHOR Clinical and Investigative Medicine. Eric Y. Zhao , Ellen T. Zhou, Matthew G. Benesch, Ayan Dey, ... Alexandra Kuzyk.
2015	Aug	Scientific overview: CSCI-CITAC Annual General Meeting and Young Investigators' Forum 2014 CO-AUTHOR Clinical and Investigative Medicine. Jonathan Keow, Eric Y. Zhao , Nardin Samuel, Ayan Dey, ... Xin Wang.
2013	Feb	Getting Ready for the Human Phenome Project: The 2012 Forum of the Human Variome Project CO-AUTHOR Human Mutation. William S. Oetting, Peter N. Robinson, Marc S. Greenblatt, Richard G Cotton, Tim Beck, ... Eric Y. Zhao .

Selected Conference Talks

2024	Jun	1.	Eric Stutheit-Zhao , Jonathan Harris, Jinfeng Zou, ... Quynh-Thu Le, Sue Yom, Scott Bratman. <i>HPV-Seq is Prognostic in p16-Positive Oropharyngeal Cancer (OPC): Independent Validation on a Large Prospective Cohort and a Secondary Analysis of NRG-HN002.</i> Oral Presentation, ASTRO. Oral Presentation, CARO. (2024); ORAL PRESENTATION
2023	Oct	2.	Eric Y. Stutheit-Zhao , Ian King, Shao Hui Huang, ... John Waldron, Andrew Hope, Scott V. Bratman. <i>Plasma EBV DNA in nasopharyngeal cancer (NPC) treated with definitive radiotherapy (RT).</i> Poster, ASTRO. Oral Presentation, CARO. (2023); ORAL PRESENTATION
		3.	Eric Stutheit-Zhao , Lucas Penny, Zhen Zhao, ..., John N. Waldron, Kathy Han, Scott V. Bratman. <i>HPV-seq improves the sensitivity and prognostic value of plasma HPV DNA in oropharyngeal cancer.</i> Oral Presentation, Multidisciplinary Head & Neck Symposium. (2023); ORAL PRESENTATION
	Mar	4.	Eric Y. Stutheit-Zhao , Ariana Rostami, Zhen Zhao, ... John Waldron, Scott V. Bratman. <i>Circulating HPV DNA is linked with disease burden, treatment, and outcomes in a prospective cohort.</i> Oral Presentation, European Congress on Head & Neck Oncology. (2023); ORAL PRESENTATION
2022	Oct	5.	Eric Y. Zhao , Ahmad Bushehri, Biu Chan, ... Tony Tadic, Andrea McNiven, Andrew Hope, Scott Bratman. <i>Daily Assessment of On-Treatment Tumor Regression by Cone Beam CT as a Prognostic Dynamic Biomarker in Nasopharyngeal Cancer.</i> Oral Presentation, ASTRO. Poster, CARO. (2022); ORAL PRESENTATION
		6.	Eric Y. Zhao , Ariana Rostami, Zhen Zhao, ... John Waldron, Scott V. Bratman. <i>Circulating HPV DNA Kinetics and Clinical Outcomes in a Large Cohort of Radiotherapy-Treated p16-Positive Oropharyngeal Cancers.</i> Oral Presentation, ASTRO. (2022); ORAL PRESENTATION
	Sep	7.	Eric Y. Zhao , E. Sanz Garcia, Zhihui Liu, ... Bernard Lam, Trevor J. Pugh, Lillian L. Siu. <i>Tumor-naïve methylomes and fragmentomes during pembrolizumab in metastatic cancer patients.</i> Oral Presentation, European Society for Medical Oncology (ESMO) (2022); ORAL PRESENTATION
2020	May	8.	Eric Y. Zhao , Jonathan Torchia, Alexander Fortuna, Dax Torti, ... Lillian Siu, Philippe Bedard, Trevor J Pugh. <i>Exomes and transcriptomes to reveal actionable findings in patients with negative-targeted panel sequencing.</i> Poster, American Society of Clinical Oncology (ASCO). (2020); POSTER PRESENTATION
2019	May	9.	Eric Y. Zhao , Xiaolan Feng, Erin Pleasance, Tony Ng, Jasleen Grewal, Nisreen Mohammad, Sara K. Taylor, Christine Simmons (designated presenter)*, ... Karen Gelmon, Stephen Yip, Steven J.M. Jones, Marco Marra and Janessa Laskin. * A designated presenter was chosen because of scheduling conflicts. <i>The Whole Genome Landscape of Adult Metastatic Sarcoma.</i> Poster, American Society of Clinical Oncology (ASCO). (2019); POSTER PRESENTATION
2018	Jun	10.	Eric Y. Zhao , Erin D Pleasance, Martin R Jones, Yaoqing Shen, ... Janessa J. Laskin, Marco A. Marra, Steven J. M. Jones. Oral Presentation. <i>The Evolution of Genomic Instability in Metastatic Cancer.</i> Oral Presentation, American Society of Clinical Oncology (ASCO). (2018); ORAL PRESENTATION
2017	Nov	11.	Eric Y. Zhao , Yaoqing Shen, Erin D. Pleasance, ..., Janessa Laskin, Marco A. Marra, Steven J. M. Jones. <i>Homologous Recombination Deficiency and Platinum-based Therapy Outcomes in Advanced Breast Cancer.</i> Poster, Canadian Cancer Research Conference (CCRC). (2017); POSTER PRESENTATION
	Apr	12.	Eric Y. Zhao , Yaoqing Shen, Erin D. Pleasance, ..., Janessa Laskin, Marco A. Marra, Steven J. M. Jones. <i>Breast Cancer Whole Genomes Link Homologous Recombination Deficiency (HRD) with Therapeutic Outcomes.</i> Poster, American Association of Cancer Research (AACR). (2017); POSTER PRESENTATION
2016	Oct	13.	Eric Y. Zhao , Yaoqing Shen, Erin D. Pleasance, ..., Janessa Laskin, Marco A. Marra, Steven J. M. Jones. <i>Guiding Platinum-based Chemotherapy with a Somatic Mutation Signature of BRCA1/2 Impairment.</i> Poster, American Society for Human Genetics (ASHG). (2016); POSTER PRESENTATION
	Feb	14.	Eric Y. Zhao , Yaoqing Shen, Erin D. Pleasance, ..., Janessa Laskin, Marco A. Marra, Steven J. M. Jones. <i>BRCA-Related Genomic Signature Predicts Clinical Improvement with Cisplatin.</i> Oral Presentation, Advances in Genome Biology and Technology (AGBT). (2016); ORAL PRESENTATION

- 2013 Apr 15. [Eric Y. Zhao](#), Irene Vavasour, Marjan Zakeri, Michael Borich, Cornelia Laule, Alexander Rauscher, Anthony Traboulsee, David Li, Lara Boyd, Alex MacKay. *Corpus callosal myelin water fraction and transcallosal inhibition in multiple sclerosis patients and controls*. **Oral Presentation, International Society for Magnetic Resonance in Medicine (ISMRM) (2013)**; ORAL PRESENTATION
- 2012 Nov 16. [Eric Y. Zhao](#), Erica Tsang, Jan M. Friedman, Farah R. Zahir. *PhenoKeeper: User-friendly, machine readable patient phenotype data storage to support clinical genetics and genomics research*. **Oral Presentation and Panelist. Human Variome Project (HVP) (2012)**; ORAL PRESENTATION

Invited Speaker

- 2025 Oct **Treatment monitoring and molecular residual disease assessment in oropharyngeal cancer using HPV ctDNA** RESEARCH TALK
Invited talk at the National Institutes of Health Liquid Biopsy Special Interest Group.
- 2023 Jun **ACT-NIMBly: Accelerating Clinical Translation of Non-invasive Imaging and Molecular Biomarkers in Head & Neck Cancer.** RESEARCH TALK
Invited oral presentation at the 2023 Wharton Research Day on head & neck oncology at Princess Margaret Hospital.
- 2022 Jun **Towards Clinical Translation of Dynamic Non-invasive Biomarkers in Head and Neck Cancer.** RESEARCH TALK
Invited oral presentation at the 2022 Wharton Research Day on head & neck oncology at Princess Margaret Hospital.
- Monitoring radiotherapy response using liquid biopsy and imaging biomarkers in head & neck cancer.** RESEARCH TALK
Invited lecture for the Machine Learning in Medical Imaging Consortium.
- 2018 Oct **Clinical Implications and Temporal Evolution of Mutational Processes in Metastatic Cancer.** RESEARCH TALK
2018 Lloyd Skarsgard Award talk at the BC Cancer Monday Seminar, a venue for distinguished speakers and visiting scholars.
- Feb **Mutational Processes and their Temporal Evolution in Metastatic Cancer.** RESEARCH TALK
Meeting of the BC Cancer Agency Genome Stability group.
- How to analyze cancer mutation signatures using R, Bioconductor, and the tidyverse** WORKSHOP
R workshop organized by the BCCRC Graduate Student and Postdoctoral Society.
- 2017 Apr **Clinical Implications of Homologous Recombination in Cancer** RESEARCH TALK
Building Bridges Seminar Series, hosted by the UBC MD/PhD program.
- Mar **Graduate Student Mental Health** WORKSHOP
Bioinformatics, Integrative Oncology, and Genome Science & Technology (BIG) Research Day.

Education and Teaching

- May 2021 – Aug 2022 **Co-lead, Decrypting Clerkship.**
A resident-led program to facilitate transition to clinical medicine. I was involved in recruiting facilitators, teaching small groups, and updating educational content. In 2021-2022, we ran one two-hour session during the formal U of T transition-to-clerkship block, and six optional evening sessions covering a variety of topics such as assessing new consults, rounding, and outpatient medicine.
- Jul 2022 – Jul 2022 **CARO-CROF lecture on cancer epidemiology.** MED STUDENT TEACHING
Teaching session for medical students on oncology research methods and critical appraisal.

Media Features

- 2020 Feb **Vision: Transforming Health for Everyone.** VIDEO FEATURE
UBC Faculty of Medicine video showcasing the Dean's vision for healthcare in BC, and featuring BC health leaders at all stages of training.
- 2018 Jul **The UBC MD/PhD Program** VIDEO FEATURE
A video showcasing and promoting the UBC MD/PhD program.
- 2017 Dec **Mutational Signatures May Identify Patients with Breast Cancer Most Likely to Benefit from Platinum-based Chemotherapy** FEATURED ARTICLE
Our paper selected for an AACR news feature, as well as being a Clinical Cancer Research highlighted article.

LEADER

Elected Positions

Apr 2016 – Apr 2017	Past President, Medical Undergraduate Society. Provided strategic support and helped oversee launch of first ever MUS strategic plan.
Nov 2014 – Nov 2016	VP Internal, Clinician Investigator Trainee Association of Canada (CITAC) CITAC is Canada's national student body representing the interests of MD+ and clinician- investigator trainees. My major accomplishments included: (1) Helping to coordinate collaborative efforts to publish Canadian MD/PhD alumni outcomes (CMAJ 2017, vol. 5 no. 2). (2) Development and launch of new CITAC website and social media presence.
May 2014 – May 2016	UBC Vancouver Student Senator
May 2015 – May 2016	Vice Chair, UBC Vancouver Senate The Senate is the highest academic decision making body at UBC Vancouver. Student senators at large are chosen annually by a campus-wide election process. I was further elected by Senate to serve as vice chair, and chair Senate meetings in the absence of the UBC President.
May 2015 – May 2016	Chair, Student Senate Caucus I was elected by student senators to serve as co-chair of the UBC Vancouver Student Senate Caucus, which deliberated prior to senate meetings to coordinate student academic advocacy efforts.
Apr 2015 – Apr 2016	President, UBC Medical Undergraduate Society I served voice of the society representing the over 1000 medical students enrolled in the MD Undergraduate Program at the University of British Columbia. Major accomplishments include (1) Establishment of a medical education committee to coordinate academic advocacy. (2) Position paper on national pharmacare. (3) Overhaul of member communication. (4) Student role in 2016 UBC Medical Program Accreditation Site Visit.
Nov 2013 – Nov 2014	Special Projects Chair, CITAC
Oct 2013 – Oct 2014	VP Admin, Med Student Soc.

Committee Memberships

Jan 2024 – present	Assistant Chief Resident, Radiation Oncology. Resident leadership representative, with roles include call scheduling and representing the interests and concerns of my co-residents on program committees.
Jan 2017 – Jan 2021	Member, Awards Committee of the Canadian Resident Matching Service (CaRMS) Student representative on the committee tasked with the selection of recipients of the CaRMS Sandra Banner Student Award for Leadership.
Nov 2016 – Jan 2020	Objective 2 Co-lead, Education Pillar Advisory Group Working group tasked with implementing the Education Pillar of the Faculty of Medicine Strategic Plan. Objective 2 involves leveraging disruptive technologies to improve the education experience and access.
Jun 2015 – Jan 2019	Member, CIHR Working Group on Graduate Health Training This working group is tasked with providing feedback and guidance throughout the implementation of CIHR's Strategic Action Plan on Training.
Apr 2015 – Jun 2016	Member, Admissions Policy Committee Worked with the Dean of Admissions and a diverse team of representatives from the Faculty and the public to construct and revise the policies which guide the admissions selection process for UBC Medical School.
May 2014 – May 2016	Vice Chair, UBC Vancouver Senate Teaching & Learning Committee.
May 2014 – May 2016	Standing Committees of the UBC Vancouver Senate During my time as a student senator, I served as vice-chair of the Teaching & Learning Committee, and as a member of the Admissions Committee, Agenda Committee, and Committee for Appeals on Academic Standing.
Apr 2015 – Apr 2016	Medical Alumni Association Board

Apr 2015 – Apr 2016	Member, Faculty of Medicine Executive Committee FEX is the highest decision-making body of the Faculty, aside from the Full Faculty, and is made up of the Faculty's Deans and department heads.
Apr 2015 – Apr 2016	Faculty of Medicine, Full Faculty
Jan 2015 – May 2015	UBC Medical Program Accreditation Subcommittee. Provided student input on institutional self-review reports prepared as part of the UBC Medical Undergraduate Program accreditation process.

Leadership Training

Aug 2021 – Jun 2022	Global Oncology Leadership Development Program The Princess Margaret Global Oncology Leadership Development Program is a series of lectures and interactive small group sessions designed to equip UHN Fellows with the skills, networks and opportunities to develop as leaders in cancer care at a local, regional and international level.
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Supporting Learner Mental Health

Oct 2020 – Jun 2022	Wellness Committee, Radiation Medicine Program, University of Toronto. In charge of organizing initiatives to support the wellbeing of peers in my residency program.
Feb 2017 – Mar 2017	Selection Committee Member, Laura Taylor Memorial Award I was involved in organizing the inaugural Laura Taylor Memorial Award, generously donated by the Taylor family in memory of UBC Medical Student Laura Taylor.
Dec 2014 – Dec 2016	Founding Member of MIND Speaks Up www.MINDSpeaksUp.com is a social video-based platform for mental health awareness & destigmatization.
May 2014 – May 2015	Chair, Student Senate Caucus Mental Health Working Group. Championed student academic advocacy surrounding mental health topics.
Dec 2014 – May 2015	Senate Committee Member. UBC Vancouver Senate Ad-Hoc Committee on Mental Health & Wellbeing.

Healthcare Innovation

Mar 2020 – Jun 2020	Project Coordinator, 811 Mobilization. During the COVID-19 pandemic, UBC medical students were mobilized to staff HealthLinkBC 811 call centres to field health-related concerns from the public.
Aug 2015 – Aug 2017	Co-founder of Intelligent Medicine Intelligent Medicine aimed to deliver software to support personalized care plan creation, with a focus on pharmacy medication reviews. We developed a prototype and secured \$75 000 in angel investment, but decided to discontinue the venture in 2017 due to competing demands on our time.
Aug 2016 – Aug 2016	INTERFACE Summit (attendee)
Jul 2014 – Aug 2014	INTERFACE Health Tech Summit Organized the health tech marketplace, which facilitates meetings between investors at established businesses and founders of start-ups.
Nov 2012 – May 2013	Health Technology Forum, Vancouver Chapter Co-founded and co-organized this group to facilitate cross-pollination of technologists, entrepreneurs, and healthcare professionals via seminars and socials.