

Lovedeep Gondara

CONTACT INFORMATION Data and Analytics *Cell:* (604) 832-7114
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Vancouver, BC V5Z1G1 Canada

RESEARCH AREAS Differential Privacy in Machine Learning, Deep Learning, Statistics, Machine Learning, Generative Models, Decentralized Learning.

WORK EXPERIENCE **British Columbia Cancer Agency**, Vancouver, BC Canada

Statistician/Data Scientist

June, 2013 - present

- Design and analysis of clinical trials and retrospective studies using various models from statistics and machine learning.
- Design and implementation of interactive dashboards to serve models for visualizing trends, performance monitoring, predictions, etc.
- Develop and implement state-of-the-art machine learning and statistical models.
- Provide technical expertise regarding data architecture and data standards for the development and maintenance of databases to facilitate reporting and research.
- Coordinate internal and external data requests for planning and research.
- Participate in recruitment, selection, and training of junior data scientists, interns, and summer students.

Interim Team Lead, BioStatistics

Dec, 2018 - Mar, 2021

- Lead a team of statisticians and data scientists within cancer surveillance and outcomes, population oncology.
- Provide leadership to team members via technical expertise and the facilitation and demonstration of the principles of team work and collaboration.
- Manage all incoming projects and ensure deliverables by assigning the projects to and coordinating with different team members.

EDUCATION **Simon Fraser University**, Burnaby, BC, Canada
Ph.D., Computer Science, 2022

University of Illinois, Springfield, Illinois, USA
M.S., Computer Science, 2015

University of the Fraser Valley, Abbotsford, BC, Canada
Post-Baccalaureate certificate in Data Analysis, 2013

Punjab Technical University, Punjab, India
B.Tech, Computer Science, 2011

HONORS AND AWARDS	<p>John Jambor Knowledge Fund award, British Columbia Cancer Agency, 2014, 2015, 2017, 2020, 2022</p> <p>Travel award, International Society for Bayesian Analysis, 2022</p> <p>Graduate Fellowship, Simon Fraser University, 2017, 2019</p> <p>Travel award, NeurIPS 2019</p> <p>Clark Wilson LLP Graduate Scholarship, 2019</p> <p>NVIDIA GPU Grant, 2018</p> <p>Travel award, Simon Fraser University, 2016, 2017, 2018</p> <p>Alexander Graham Bell Canada Graduate Scholarship (CGS-D), 2018</p> <p>Helmut & Hugo Eppich Family Grad School award, Simon Fraser University, 2017</p> <p>Travel award, International Biometrics Conference, 2016</p>
PUBLICATIONS	<p>Most recent and relevant five, first-author publications. For a complete list, please see the Google scholar link.</p> <ol style="list-style-type: none"> 1. Gondara, L. & Wang, K. (2023, January). PubSub-ML: A Model Streaming Alternative to Federated Learning. In Proceedings on Privacy Enhancing Technologies, 2023. 2. Gondara, L., Wang, K., & Carvalho, R. S. (2022, March). Differentially Private Ensemble Classifiers for Data Streams. In Proceedings of the 15th ACM International Conference on Web Search and Data Mining, WSDM 2022. 3. Gondara, L., Carvalho, R. S., & Wang, K. (2021, October). Training Differentially Private Neural Networks with Lottery Tickets. In European Symposium on Research in Computer Security (pp. 543-562), ESORICS 2021. Springer, Cham. 4. Gondara, L., & Wang, K. (2020, August). Differentially Private Small Dataset Release Using Random Projections. In Conference on Uncertainty in Artificial Intelligence (pp. 639-648), UAI 2020. PMLR. 5. Gondara, L., & Wang, K. (2020, September). Differentially Private Survival Function Estimation. In Machine Learning for Healthcare Conference (pp. 271-291), MLHC 2020. PMLR.
ACADEMIC SERVICE	<p>Reviewer:</p> <p>SDM 18' 21' 22', ICML 20' 21' 22', EMNLP 20' 21', EACL 21', NeurIPS 20' 21' 22', ACL 19' 20' 21', CHIL 20' 21' 22', ICLR 20' 21' 22' 23', KDD 21' 22'</p>
PROGRAMMING	Python, R, SAS
HOMEPAGE	https://lovedeepgondara.com/
GOOGLE SCHOLAR	https://goo.gl/tFuznH
GITHUB	https://github.com/lgondara