

Suraj Bansal

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EDUCATION

McMaster University, Hamilton, ON
Honours, Bachelor of Health Sciences (BHSc)

Sep. 2021 - Present
GPA: 4.0

RESEARCH PROJECTS

Manuscripts Under Review

Zeng, A.G.X., Bansal, S.*, Jin, L.*, Mitchell, A., Chen, W.C., Abbas, H.A., Chan-Seng-Yuel, M., Voisin, V., van Galen, P., Tierens, A., Cheok, M., Preudhomme, C., Dombret, H., Daver, N., Futreal, P.A., Minden, M.D., Kennedy, J.A., Wang, J.C.Y., Dick, J.E. A cellular hierarchy framework for understanding heterogeneity and predicting drug response in AML. DOI: 10.1101/2022.01.25.476266

RESEARCH EXPERIENCE

The Dick Lab, Princess Margaret Cancer Centre, *Student Researcher* | Toronto, ON Sep. 2020 - Present

- Performed a literature screen, procuring 100+ drug-treated RNA-sequencing datasets and employed TMP normalization
- Performed gene expression deconvolution, dimensionality reduction, and cell clustering analysis on TCGA, BEAT-AML, and Leucegene cohorts to infer leukemic hierarchy composition and quantify changes before and after drug treatment
- Presented an academic poster at the University of Toronto Department of Medical Biophysics Summer Student Poster Day

The Grover Lab, St. Michael's Research Centre, *Research Volunteer* | Toronto, ON Jun. 2019 - Aug. 2019

- Assisted with data entry for research on the transfer of endoscopic skills with an endoscopic simulation curriculum using EndoVR (CAE Healthcare) — a high-fidelity interventional virtual reality endoscopic simulator

PERSONAL PROJECTS

Ryde AI, *Project Lead and Co-Founder* | Toronto, ON Apr. 2020 - Nov. 2020

- Self-driving software, leveraging Bluetooth to interface vehicle diagnostics with a smartphone application for under \$1,000
- Zappos Venture Challenge Finalist, Sparkteen Accelerator Finalist, Stanford GATSVI Accelerator Finalist (fast-tracked)

Sidewalk Labs (Google), *Project Consultant* | Toronto, ON Nov. 2019 - Feb. 2020

- Created an innovation plan to reduce household expenditures through a sharing economy digital infrastructure that monetizes personal assets (selected from 50 teams to present to C-suite at Sidewalk Labs headquarters)

LEADERSHIP AND VOLUNTEERING EXPERIENCE

The Meducator, *Editor* | Hamilton, ON Sep. 2021 - Present

- Performed submission reviews for McMaster University's Peer-Reviewed Undergraduate Health Sciences Journal
- Published articles on myocarditis on mechanobiology in The Meducator's ISSUE 40

York Region District School Board Student Senate, *Prime Minister* | York Region, ON Sep. 2018 - Jun. 2021

- Secured \$35,000 in funding and sponsorships to launch YRDSB's largest mental health conference and monthly general assemblies attended by students from 33 secondary schools (increased event attendance from 20 to 1,300 across 3 years)
- Built FACESofYRDSB, an online platform to showcase racial discrimination stories from Indigenous and BIPOC students

TEDxYouth Toronto, *Student Co-Chair* | Toronto, ON May. 2018 - Nov. 2019

- Sourced event speakers and performers, and maintained a \$15,000 sponsorship portfolio
- Implemented coordinated marketing strategies with 15 youth ambassadors, procuring 1,000+ applications

Baylor Scott and White Health, *Summer Shadow* | Dallas, TX July. 2019 - Aug. 2019

- Observed clinical rounds and patient consultations in internal medicine, hematology, and emergency medicine

SELECT HONOURS AND AWARDS

Recipient (1 of 1), Ontario Public Schools' Association Jack A. MacDonald Award of Merit	2021
Recipient (1 of 1), Ontario Student Voice Award: Entrepreneurship Category	2021
Recipient, 5-Year Ontario Volunteer Service Award	2021
Recipient (1 of 1), Richmond Hill Volunteer Youth Achievement Award	2021

SKILLS

Languages and Libraries: Python, JavaScript, R, HTML, CSS, Keras, Tensorflow, Pandas, Scikit-learn, Survival, Scanpy